The 2013-14 Asian University for Women Academic Bulletin outlines all academic requirements for the students of the Asian University for Women. All students who have enrolled in the undergraduate program during the 2012-13 academic year are subject to the degree requirements articulated in this Bulletin.

The academic standards and policies, courses, and curricula described in this Bulletin are subject to change or cancellation by official action of the Asian University for Women. Failure to read this Bulletin does not excuse students from the requirements and provisions described herein. Every effort has been made to ensure the accuracy of the information in the Bulletin.
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MISSION, VISION, QUESTIONS, AND CONCERNS

MISSION & VISION

The Asian University for Women (AUW) seeks to graduate women who will be skilled and innovative professionals, service-oriented leaders in the businesses and communities in which they will work and live, and promoters of intercultural understanding and sustainable human and economic development in Asia and throughout the world.

AUW seeks:

- To educate Asian women to become highly motivated and effective professionals, leaders, and service-oriented citizens;
- To provide a vibrant and diverse residential learning community where highly talented women and those with uncommon potential from many cultural and religious backgrounds can grow both intellectually and personally;
- To create a student-focused learning environment where the humanities and natural and social sciences establish a broad base of inquiry, where disciplinary and independent studies provide learning depth, and where applied studies in both the general studies and majors’ curricula requires students to link theoretical understanding with contemporary issues and challenges facing Asia and the world; and
- To focus student learning on the acquisition of intellectual abilities, reflective personal growth, leadership abilities, and a service-oriented outlook.

ACADEMIC QUESTIONS AND CONCERNS

If a student has a question, concern, or complaint about her experience in a class or about a faculty member, the student should first contact the faculty member directly. If a student wishes to address the issue further, she should meet with the respective academic dean. If a student has questions or concerns about her progress toward graduation, general graduation requirements, or needs assistance with academic advising, academic skills, and/or writing skills, the student should contact her academic advisor. If a student has a question or concern about academic records, registration, drop and add forms, and/or transfer of credits, the student should contact the Registrar in the Office of the Registrar in 20G 404.

FINANCIAL AID QUESTIONS AND CONCERNS

Students with financial aid questions or concerns should write to the Financial Aid Committee:
financial.aid@auw.edu.bd
ACADEMIC CALENDAR 2013-14

SEMESTER I: FALL 2013

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 18-22</td>
<td>Sunday-Thursday</td>
<td>New Faculty Orientation</td>
</tr>
<tr>
<td>Aug. 21-22</td>
<td>Wednesday-Thursday</td>
<td>New &amp; Returning Faculty Orientation</td>
</tr>
<tr>
<td>Aug. 20-22</td>
<td>Tuesday-Thursday</td>
<td>New AA/UG Student Orientation &amp; Registration</td>
</tr>
<tr>
<td>Aug. 25</td>
<td>Sunday</td>
<td>Commencement of Classes – AA &amp; UG</td>
</tr>
<tr>
<td>Aug. 25-Sept. 1</td>
<td>Sunday-Sunday</td>
<td>Drop / Add Period</td>
</tr>
<tr>
<td>Aug. 28</td>
<td>Wednesday</td>
<td>Janmastami*</td>
</tr>
<tr>
<td>Sept. 12</td>
<td>Thursday</td>
<td>Last Day for Withdrawal of a Course without ‘W’ grade</td>
</tr>
<tr>
<td>Oct. 13-17</td>
<td>Sunday-Thursday</td>
<td>Fall Break</td>
</tr>
<tr>
<td>Oct. 14</td>
<td>Monday</td>
<td>Durga Puja Dashami* (National Holiday)</td>
</tr>
<tr>
<td>Oct. 15-17</td>
<td>Tuesday-Thursday</td>
<td>Eid-Ul-Azha* (National Holiday)</td>
</tr>
<tr>
<td>Oct. 20</td>
<td>Sunday</td>
<td>Classes commence after Break</td>
</tr>
<tr>
<td>Oct. 24</td>
<td>Thursday</td>
<td>Last Day for Withdrawal of a Course with ‘W’ grade</td>
</tr>
<tr>
<td>Nov. 5-6</td>
<td>Tuesday-Wednesday</td>
<td>Registration for Spring 2014</td>
</tr>
<tr>
<td>Nov. 14</td>
<td>Thursday</td>
<td>Muharram* (National Holiday)</td>
</tr>
<tr>
<td>Dec. 8-12</td>
<td>Sunday-Thursday</td>
<td>Hartal Catch-up week</td>
</tr>
<tr>
<td>Dec. 12</td>
<td>Thursday</td>
<td>Last Day of Classes</td>
</tr>
<tr>
<td>Dec. 13-15</td>
<td>Friday-Sunday</td>
<td>Exam study period</td>
</tr>
<tr>
<td>Dec. 16</td>
<td>Monday</td>
<td>Victory day (National Holiday)</td>
</tr>
<tr>
<td>Dec. 17-20</td>
<td>Tuesday-Friday</td>
<td>End-Semester Exam</td>
</tr>
<tr>
<td>Dec. 22</td>
<td>Sunday</td>
<td>Semester Break begins (through Jan.18, 2014)</td>
</tr>
<tr>
<td>Dec. 25-26</td>
<td>Wednesday-Thursday</td>
<td>Christmas Day</td>
</tr>
</tbody>
</table>

Semester II: Spring 2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 2</td>
<td>Thursday</td>
<td>Submission of Grades</td>
</tr>
<tr>
<td>Jan. 14</td>
<td>Tuesday</td>
<td>Eid-e-Milad-un-Nabi/Birth of the Prophet*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(National Holiday)</td>
</tr>
<tr>
<td>Jan. 18</td>
<td>Saturday</td>
<td>End Semester Break</td>
</tr>
<tr>
<td>Jan. 19</td>
<td>Sunday</td>
<td>Commencement of Classes</td>
</tr>
<tr>
<td>Jan. 19-26</td>
<td>Sunday-Sunday</td>
<td>Drop / Add Period</td>
</tr>
<tr>
<td>Feb. 6</td>
<td>Thursday</td>
<td>Last Day for Withdrawal of a Course without ‘W’ grade</td>
</tr>
<tr>
<td>Feb. 21</td>
<td>Friday</td>
<td>Mother Language Day (National Holiday)</td>
</tr>
<tr>
<td>Mar. 16-20</td>
<td>Sunday-Thursday</td>
<td>Spring Break</td>
</tr>
<tr>
<td>Mar. 17</td>
<td>Monday</td>
<td>Bangabandu’s Birthday (National Holiday)</td>
</tr>
<tr>
<td>Mar. 20</td>
<td>Thursday</td>
<td>Last Day for Withdrawal of a Course with ‘W’ grade</td>
</tr>
<tr>
<td>Mar. 24</td>
<td>Monday</td>
<td>Registration for Summer 2014</td>
</tr>
<tr>
<td>Mar. 26</td>
<td>Wednesday</td>
<td>Independence Day (National Holiday)</td>
</tr>
<tr>
<td>Apr. 9-10</td>
<td>Wednesday-Thursday</td>
<td>Registration for Fall 2014</td>
</tr>
<tr>
<td>Apr. 14</td>
<td>Monday</td>
<td>Bengali New Year (National Holiday)</td>
</tr>
<tr>
<td>Apr. 20</td>
<td>Sunday</td>
<td>Easter Sunday (no classes)</td>
</tr>
<tr>
<td>May 1</td>
<td>Thursday</td>
<td>Labour Day (National Holiday)</td>
</tr>
<tr>
<td>May 4-8</td>
<td>Sunday-Thursday</td>
<td>Hartal Catch-up week</td>
</tr>
</tbody>
</table>
Admissions Procedures, Tuition, and Financial Aid

May 14  Wednesday  Buddha Purnima–Buddha’s birthday*  (National Holiday)
May  8    Thursday  Last Day of Classes
May  9-10 Friday-Saturday  Exam study period
May 12-15 Monday-Thursday  End-Semester Exam
May 16  Friday  Semester Break begins
May 18-22 Sunday-Thursday  Summer Project Workshops
May 18  Sunday  Submission of Senior Grades
May 22  Thursday  Submission of Grades
May 24  Saturday  Graduation (tentatively)
May 27  Tuesday  Shab-e-Meraz*

Semester III: Summer 2014

Date  Day  Event
June 1  Sunday  Commencement of Summer Classes
June 1-8 Sunday -Thursday  Drop / Add period
June 13  Friday  Shab-e-Barat* (National Holiday)
June 15  Tuesday  Last Day for Withdrawal of a Course
June 19-21 Thursday-Saturday  Mid-Term exam
June 22  Sunday  Last Day for Withdrawal of a Course
June 30  Monday  Last Day of Summer Classes
July  2-3  Wednesday-Thursday  End of Semester Exams
July  7    Monday  Submission of Grades
July 11  Friday  Access Academy Graduation

Note:
1. Holidays marked with an asterisk (*) may change depending on the appearance of the moon or some other reasons.
2. No classes will be held on national holidays and during exam period.
ADMISSION PROCEDURES, TUITION, AND FINANCIAL AID

The Asian University for Women seeks promising, talented, and dynamic students who aim to make a difference in their societies.

CRITERIA FOR ADMISSION

To be considered for admission, an applicant should:

- Have completed 10+2, a total of 12 years of education
- Have demonstrated leadership potential and a commitment to work for positive social change
- Received an average of 60% of marks or equivalent grades in the final examinations, including a minimum score of 60% on both English and mathematics exams.

HOW TO APPLY

There are two application cycles: regular admission, and transfer admission. The application process is similar for both.

Regular Admission

Step 1: Collect the forms
Students can collect an application package from the AUW Office of Admissions, their Country Coordinator, or from the AUW website (http://www.asian-university.org/admission.htm). The complete application package includes an application form, self-assessment form, and an institutional recommendation form.

Step 2: Complete the Application Form and Provide Relevant Documents
In addition to the application form, the self-assessment form, and the institutional recommendation form, applicants must submit the following:

- 2 copies of passport-size photographs with the name of the applicant written on the back
- Copy of birth certificates
- Certified/attested copies of all academic transcripts and certificates
- Copies of any other certificates received (e.g., for extracurricular activities)
- Copies of all relevant financial documents (e.g., bank statements, income tax certificates, salary statements, etc.)
- SAT scores (for students applying for early admission)

Step 3: Send Application Material to the Office of Admissions

Applicants can email all application material to admissions@auw.edu.bd or send all documents through post. To send materials by surface post:

- Bangladeshi applicants should send all application materials directly to:
  
  The Office of Admissions
  Asian University for Women
  20/G M.M. Ali Road
  Chittagong—4000, Bangladesh
• International applicants should send all application materials to their country coordinator.

Transfer Admissions

To be eligible for admission to AUW, prospective students must have a minimum cumulative grade point average (CGPA) of 2.85 from the transferring institution(s). They must also complete an admissions application (as articulated above for regular admission) and sit for the entrance exam prior to meeting with the Registrar, who is the institutional transfer officer responsible for the initial evaluation. Prospective students should read AUW’s policy on “Transfer Credits” for more information.

SELECTION PROCESS

Applications are selected based on academic performance, the student’s personal statement, the record of extracurricular activities and community activities. Shortlisted applicants are invited to sit for a locally administered entrance exam, which consists of a section on math and a section on English (sentence structure, written expression, reading comprehension, and essay writing). Shortlisted applicants must also sit for an interview in March or April. Applicants are then chosen for admission either to the Access Academy or the Undergraduate Program of AUW.

While all applicants are initially considered for the undergraduate program, if a promising applicant’s performance on the entrance exam shows the need for additional academic preparation, she will be admitted to the Access Academy. Upon successful completion of the Access Academy program and passing of its exit exam, the student can choose to enroll in the Undergraduate Program in the following academic year.

TUITION

AUW’s annual tuition for one academic year of study in either the Access Academy or the Undergraduate program is US $12,000. This tuition fee includes:

- Residential facilities (lodging, food and other housekeeping services)
- Primary on-site health services (dental, ophthalmological and pre-existing conditions are not covered)
- Tuition
- School supplies (books, papers, etc.)

FINANCIAL AID

AUW strives to meet the financial need of each admitted student and offers full and partial financial aid based on each family’s background and financial circumstances. All financial aid awards are assessed prior to the beginning of the one-year Access Academy or the four-year Undergraduate program.

Evaluation Criteria for Initial Financial Aid

- The overall family financial situation of the students from the documents provided by the students and their families in the initial application form at the time of admission
- Education level of the parent(s)
- Job(s) and profession(s) of the earning members of the family
- The level of income of the parent(s)/guardian(s), i.e., the salary, business income, investment income, rental income, total household income, etc.
- The earnings of any supporting member(s) of the family, i.e., brothers or sisters
- Movable and immovable properties in terms of their market value at the present rates
Certificates and Degree Programs

- Community’s comment on the socio-economic condition/status of the family
- The school the student attended prior to coming to AUW in terms of the educational costs for attending those schools
- The schools of the siblings
- Socio-economic situation of the geographical area where the students family lives in
- The luxury items owned by the student and her family
- Bank statements
- Tax return documents
- Salary certificates for salaried parent(s)
- Information from a third party source(s) as needed
- General assessment of people’s and committee members’ perceptions on socio-economic situation of the family/parents if it is known publically
- Family composition
- Number of non-earning dependents
- Other document(s)/information as the committee deems necessary

The committee shall have the right to investigate and verify all the information and documents submitted by the applicants. Students have to maintain a CGPA of 2.0 each year to maintain financial aid, financial aid will be renewed annually until graduation from AUW.

A student cannot apply for any increase in the financial aid after she has started at AUW unless a drastic/major event occurred that severely changed her family’s financial situation but please keep in mind that approval of any such increase in financial aid later in the program will be a rare occurrence.

**TRAVEL GRANT**

Travel grants are also awarded to international students who qualify for financial assistance. A travel grant is limited to a one-way ticket to Chittagong and a ticket home after graduation from AUW. Students seeking tickets during intermediate summers may engage in the AUW work-study program and earn money towards travel.
CERTIFICATES AND DEGREE PROGRAMS

ACCESS ACADEMY

Mission

The Access Academy prepares students from diverse cultural and education backgrounds for the rigorous, American-style undergraduate liberal arts curriculum at the Asian University for Women.

Program and Curriculum Overview

The Access Academy is an intensive, year-long, pre-undergraduate residential program that develops students academically, socially, and culturally. The main focus of the academic curriculum is to foster English communication skills, critical thinking, problem-solving and strategies for life-long learning. The courses build students’ skills in academic English reading, writing, listening, and speaking, and cover content in world history and geography, mathematics, scientific methods, and computers, as well as physical education. Additionally, students are required to participate in community service and encouraged to enhance their education through extra-curricular clubs, events, and use of on campus resources such as the library and the Writing Center. Through these comprehensive efforts the Access Academy trains young women to be assertive, confident, and culturally sensitive critical thinkers, communicators, students, and citizens of a global community.

Successful completion of the Access Academy program leads to admission to the Asian University for Women undergraduate program.

Required Courses

[ENG0100] AA Writing Seminar: Language and Composition
This one-year course builds skills in grammar and rhetoric so students are able to express themselves in clear, confident academic writing. The first term emphasizes writing as a process, challenging students to consider how language is used to shape identities, create discourse communities, and enact power. The second term focuses on composing sound academic arguments. In the third term, students focus on “voice” in writing, solidifying their understanding of the relationship between rhetoric and grammar and demonstrating their ability to revise and polish their writing.

[ENG0200] Interpreting Texts
This one-year course emphasizes reading and analysis of various genres of fiction and non-fiction texts. The over-arching goals focus on reading comprehension skills and strategies, academic vocabulary, exposure to a wide range of academic texts, and responding to texts through writing and discussion. The first term emphasizes foundational skills in comprehension, vocabulary-building, and analysis, and also builds in-depth awareness of intellectual property and plagiarism. The second term focuses on the development of persuasive and independent argument in texts. Students are taught to analyze and evaluate the thesis and supporting claims of a text and also to recognize fallacies in arguments. The third term reinforces research skills and written and oral response.

[CIV0100] World History
This course will serve as an introduction to the study of World History, which will focus on aspects of region, culture, and geography. This will include language, religion, politics, the arts, current events, sociology, and gender. Students will be able to interpret the ways major turning points of human history have shaped our modern world and have created group and individual identities. The skills emphasized
Certificates and Degree Programs

include ability to comprehend academic lectures and to deliver polished oral presentations. Overarching themes of the course content include: 1) introducing a survey of human societies from pre-history to modern day, 2) raising student awareness of our increasingly globalized world, while maintaining a regionally specific focus, 3) analysing the implications of current events and their historical backgrounds, 4) comparing similarities and respecting differences across world cultures, and 5) learning to identify broad historical themes and patterns.

[COMP0100] Introduction to Computers
This two-semester course is designed to teach students the necessary skills needed to operate a Windows-based computer in an academic and professional setting. The course will develop students’ abilities in typing, using applications such as Microsoft Word, Excel, and PowerPoint, navigating the web and e-mail systems, managing data, and understanding issues of privacy and security. An important component of this course within this context of university preparation is building students’ skills in computer-based academic research. Additionally, students will be trained in computer management and workstation ergonomics.

[MATH0100] Pre-calculus (or [MATH1000] Calculus I)
Access Academy students with diverse math backgrounds will receive appropriate math preparation and will complete the prerequisites to undergraduate-level math courses. The courses focus on large concepts and problem-solving skills, encouraging students to explore real-life applications of mathematical formulas. The courses currently offered are:
Pre-calculus (remedial pre-pre-calculus instruction included in the course when necessary)
Calculus I (for undergraduate-level credit)

[SEM0200-1] Leadership Seminar
This two-semester course is designed to introduce Access Academy students to qualities of effective leadership and to promote active citizenship at AUW and in the community at-large. Students will explore themes of gender, cross-cultural communication and social activism while gaining practical professional skills such as public speaking and resume writing. The course aims to foster an entrepreneurial mindset that trains students to critically analyze issues in their communities and to seek creative solutions.

[GYM0100] Karate
This full year course in physical education equips students with an understanding of the crucial benefits of regular exercise, as well as the confidence in the ability to defend themselves through Karate techniques. Students have the opportunity to progress from white belt level to higher skill levels through regular testing.

Assessment
Student progress is assessed in three dimensions:
1) Course Grades: Each instructor is required to assess the students’ understanding of course material through a combination of quizzes, assignments, cumulative exams, presentations, etc. Students receive regular feedback from their instructors and can meet with instructors in office hours to discuss their grades and performance in individual courses.
2) Standardized Access Academy Assessments: Because Access Academy aims to prepare students from diverse backgrounds for matriculation to the undergraduate program, each student must demonstrate standard levels of “preparedness,” particularly in language ability. English proficiency exams evaluating progress in listening comprehension, knowledge of written structure, and reading comprehension are administered to all students at the end of each semester.
3) Student Achievement Portfolio: Based on the expected learning outcomes of the Access Academy curriculum, we maintain records and copies of assignments that verify whether students
Certificates and Degree Programs

have met certain criteria, e.g. demonstrating ability to deliver an organized oral presentation, or to compose a 2,000 word research essay. At the end of the semester or year, when students are being evaluated for promotion, all portfolios are submitted for review by a panel of faculty (both Access Academy instructors and undergraduate professors) who will comment on whether students’ achievements are at the minimum level required for success in the undergraduate program.

In addition to these evaluative methods, careful records are kept of any cases of plagiarism and academic dishonesty, and the institution-wide policies and procedures for academic alert and academic probation are enforced in Access Academy.

Promotion Requirements

Each student who enters the Asian University for Women has undergone a rigorous admission process to be selected for either the undergraduate program, or for the Access Academy with the expectation that she will be prepared after one year to matriculate in the university. Ideally, all students of Access Academy will be promoted to the first year undergraduate level after completing the preparatory program. However, to ensure that a student is adequately prepared for success in the undergraduate program, we set forth standard minimum criteria for promotion. If, according to these standards, a student successfully completes Access Academy, she will be promoted to the undergraduate program. All of the following factors determine whether a student has “successfully” completed Access Academy in order to move on to the undergraduate program:

1) Cumulative GPA of 2.0 or higher in Access Academy courses
2) A combined English Assessment score (with all three sections – Reading, Structure, and Listening) of 145
3) Demonstration of having reached the minimum achievement standards upon review of Student Achievement Portfolio by the faculty board

Promotion Ceremony

At the end of the academic year, after the Access Academy summer semester, each student receives a Certificate of Completion. The certificates are distributed during a promotion ceremony in mid-July, and students have access to their Access Academy academic records from the Registrar’s office upon returning to campus for fall semester.

THE UNDERGRADUATE PROGRAM

Graduation Requirements

<table>
<thead>
<tr>
<th>Graduation Requirements for students entering the undergraduate program in 2012 or later</th>
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<tbody>
<tr>
<td>Core Curriculum</td>
</tr>
<tr>
<td>Major Concentration</td>
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<tr>
<td>Free Electives and/or Minor</td>
</tr>
<tr>
<td><em>Total</em></td>
</tr>
</tbody>
</table>

Additionally, all undergraduate students are required to successfully complete four semesters of physical education in order to graduate.
This curriculum requires a student to take four courses per term for eight terms. Each student may only take four courses each term during the first year. Students with a cumulative GPA of 3.00 or higher may take five courses in the subsequent semester.

**Core Curriculum**

*12 courses; 48 credit hours*

This core curriculum aims to introduce students to the important modes of thought and reasoning, and includes courses in social analysis, ethical reasoning, literature, civilization studies, the arts, science, and mathematics.

<table>
<thead>
<tr>
<th>Core Area</th>
<th># of Courses</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Analysis</td>
<td>1</td>
<td>UG1 or 2</td>
</tr>
<tr>
<td>Ethical Reasoning</td>
<td>1</td>
<td>UG2</td>
</tr>
<tr>
<td>Social Analysis or Ethical Reasoning</td>
<td>1</td>
<td>UG1 or 2</td>
</tr>
<tr>
<td>Literature, Civilization Studies, &amp; the Arts</td>
<td>3</td>
<td>UG1 and 2</td>
</tr>
<tr>
<td>Natural Science</td>
<td>1</td>
<td>UG1 or 2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1</td>
<td>UG1 or 2</td>
</tr>
<tr>
<td>Natural Science or Mathematics</td>
<td>1</td>
<td>UG1 or 2</td>
</tr>
<tr>
<td>Writing Seminars</td>
<td>2</td>
<td>UG1</td>
</tr>
<tr>
<td>Regional Challenges</td>
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<td>UG2</td>
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- The year for taking each core course is suggested but not an absolute requirement.
- The names and descriptions of courses in each category are given in the course descriptions section of this Bulletin.

**Requirements for majors and minors for the class of 2015 and beyond. The class of 2014 must follow the course requirements for majors from the 2012-2013 Bulletin.**

**ASIAN STUDIES**

*(Major and Minor)*

**Mission Statement**

The Asian Studies program at the Asian University for Women trains students to understand and engage in an interconnected world. With foundational and specialized courses in a range of fields, including history, religion, philosophy, literature, anthropology, sociology, politics and international relations, development studies, and language studies, it gives students the knowledge and skills needed to work across disciplines, to tackle issues in the region, and to think contextually and creatively about local, regional, and global transformations.

Asian Studies is innovative and interdisciplinary. While building from the diverse backgrounds and interests of its faculty and students, it invites students to question the implications of taking Asia as a bounded geographic space or field of study. In doing so, the program reflects AUW's focus on promoting women's leadership and confronting regional challenges. Students pursuing Asian Studies major will be equipped to work in a truly global environment.
Certificates and Degree Programs

The program provides students with the theoretical and methodological tools needed to pursue research and study in innovative and interdisciplinary ways. Its coursework provides a framework for developing critical questioning and reasoning skills, as well as capacities in communication, problem solving, and creative thinking. This integrated learning environment also includes regional language study and courses with both regional and extra-regional foci.

Learning Outcomes

This major supports the development of leadership qualities such as self-awareness and reflexivity, communication, creativity, independent thinking, and problem solving.

The Asian Studies major at AUW develops graduates who will be able to:

- Approach contemporary issues, challenges and developments through an interdisciplinary and creative manner
- Demonstrate excellent skills in speaking, close reading, critical thinking, and careful writing
- Identify key critical questions and engage in thoughtful debate about texts from a variety of historical and cultural backgrounds both in Asia and in the global context
- Connect ideas, theories, and practical applications from a variety of fields in this interdisciplinary major (anthropology, art history, cultural studies, development studies, language, literature, philosophy, politics, religion, and sociology)
- Integrate insights and understandings from courses to critically reflect on, and make sense of, the ways broader processes, events and moments at global, regional, national and local levels impact on their own lives

Asian Studies Major Requirements (12 courses)

Courses should be taken at least from 3 categories (see categories below). Concentrations listed in previous bulletins will be fully incorporated into the categories listed below.

New Categories

- Asian Histories: Global and Local
- Asian Literatures, Cultures, and the Arts
- Asian Religions and Philosophies
- Asian Politics, International Relations, and Development Studies
- Media Studies and Communication in Asia
- Asian Languages

The minimum passing grade for courses to fulfill major requirement is C-. Courses for the major cannot be taken pass/fail.

Minor Requirements (5 courses)

- At least 4 of the courses must be at the 3000- Level or above.
- The courses must be from at least 3 of the categories listed above for the major
- For courses that are cross-listed with other majors and Asian Studies, students will receive credit for only one of the cross-listed majors and not all of them. For example, if a course is cross-listed as ASIA/PPE and the student is a PPE major doing an AS minor, the student can get credit for this course either for PPE or ASIA but not both.
BIOLOGICAL SCIENCES
(Major and Minor)

Mission Statement
The mission of the Biological Sciences major at the Asian University for Women is to provide the highest quality education and experience in the biological sciences within the context of a liberal arts education. We prepare students to understand biological issues, be competent in basic methods and techniques of the discipline, and to be accomplished critical thinkers. Our graduates will be prepared to pursue careers in the life sciences and will contribute to the growing scientific capacity in Asia.

Learning Objectives
The AUW major in biological sciences will enable graduates to:
- Apply knowledge of basic facts and theories in biological and related sciences.
- Interpret scientific knowledge critically and relate it to other subject areas in the liberal arts.
- Communicate their understanding, both in written and verbal form, to others within and outside the discipline.
- Collaborate effectively in interdisciplinary experimental projects
- Add to the body of biological knowledge through research
- Conduct ethical science
- Meet regional and global challenges in the field of biological sciences

Major Requirements (13 courses)
- Science and Mathematics required (8 courses, 3 of which count as core courses)
  - Biology I and II
  - Calculus I
  - Chemistry I and II
  - Organic Chemistry
  - Physics I
  - Probability and Statistics
- Biological Science (6 courses chosen from)
  - Anatomy and Physiology I & II OR Human Functioning
  - Biochemistry
  - Genetics and Genomics
  - Cell and Molecular Biology
  - Microbiology
  - Biostatistics
  - Ecology
- Science Electives (3 courses chosen with consent of adviser)
  - Epidemiology
  - Nutrition
  - Energy and the Environment
  - Environmental Chemistry and Toxicology
Certificates and Degree Programs

- One Health
- Ethics and Policy in Health Care Issues
- Senior Thesis

**Minor requirements (6 courses)**
- General Biology I, General Biology II, General Chemistry I
- Three 3000 level, four credit point courses, such as Cell and Molecular Biology, Ecology, Genes and Genomics, Human Anatomy and Physiology I, Human Anatomy and Physiology II, or Microbiology. 3000 level courses cannot be counted as both major and minor requirements.

**CHINESE STUDIES**  
(Minor)

**Mission Statement**
The minor in Chinese meets a need among students for recognition of their Chinese language skills. Given the growing importance of China in all spheres of activity throughout Asia this minor will be of value to any student who is interested in a career that is related to China or will take them into China.

**Learning Objectives**
Students who complete the Chinese minor will develop:
- Speaking skills to communicate with Chinese-speakers in common social and professional interactions. Their speaking competency should fulfill the expectations for the intermediate high or advanced low level of the ACTFL Proficiency Guidelines.
- Listening skills to understand short narratives in fields of general interest and familiar knowledge, including news broadcasts and personal anecdotes. Their listening competency should fulfill the expectations for the advanced low level of the ACTFL Proficiency Guidelines.
- Reading skills to largely understand short texts on topics with which they are familiar, and to partially understand higher-level texts. Their reading competency should fulfill the expectations for the intermediate mid or intermediate high level of the ACTFL Proficiency Guidelines.
- Writing skills to produce correspondence and short compositions, including short summaries, narrations and descriptions. Their writing competency should fulfill the expectations for the intermediate high level of the ACTFL Proficiency Guidelines.
- The ability to knowledgeably discuss major features of both traditional and modern Chinese society, including historical changes and current trends.

**Minor Requirements (5 Courses)**
Five (5) courses are needed to earn a Chinese minor. Three (3) of these courses must be at the 3xxx level or above.
For most students this will mean five of the following Mandarin Chinese language courses:
- Beginning Mandarin I (ASIA 3600 (If taken in Fall 2012 or before) / LCSA 1115 (If taken in Fall 2013 or after))
Certificates and Degree Programs

- Beginning Mandarin II (ASIA 3601 (If taken in Spring 2013 or before) / LCSA 2xxx (If taken in Spring 2014 or after))
- Intermediate Mandarin I (ASIA 3602)
- Intermediate Mandarin II (ASIA 3603)
- Advanced Mandarin I (ASIA 3604)
- Advanced Mandarin II (ASIA 4xxx )

In addition, the minor will also be available to students who take four of the above Mandarin Chinese language courses and one further China-focused course in another discipline such as culture, history, politics, religion, philosophy, literature, or economic development. Courses offered at AUW in the past that would meet this requirement include:
- Chinese Culture and Society (LCSA 1104 / ASIA 3401)
- History of Modern China (LCSA 1103)

Cross-listed or overlapping courses: Two of the LCSA courses can count towards both the core requirements and the minor requirements, but Asian Studies majors will have to choose whether to count the courses listed as ASIA towards the major or the minor, they cannot count for both.

COMPUTER SCIENCE/ INFORMATION & COMMUNICATION TECHNOLOGY
(Major and Minors)

Mission Statement
Computer Science (CS)/Information and Communication Technology (ICT) at AUW aims to educate students who aspire to engage in careers in various domains of CS/ICT Industry and Development Sectors. This program leverages technical ingenuity together with social insights across the discipline in order to address challenges in areas such as health, microfinance, entrepreneurship, governance, education, and civic activism. Our program envisions the students to work in multi-disciplinary teams to design, develop, and implement CS/ICT infused services/applications that are technically appropriate and socially viable in the global context, so as to enable true and sustainable adoption for the next billion users worldwide.

Learning Objectives
Upon completion of the major the students will be able to:
- Acquire knowledge in technical areas relevant to CS/ICT and be able to use techniques, skills and computing tools necessary to address real life challenges
- Develop understanding of, and to solve analytical problems in one or more specializations of CS/ICT
- Perform system level design by the process of modeling, analysis, synthesis and integration of knowledge within CS/ICT
- Demonstrate a sense of societal and ethical responsibility in all professional endeavours
- Exhibit strong communication skills and to function effectively as a team player
Certificates and Degree Programs

CS-ICT Major Requirements (13 courses)

- Mathematics and Science Requirements (6 courses, 3 of which count to the core)
  1. Calculus I
  2. Calculus II
  3. Physics I
  4. Linear (Advanced) Algebra
  5. Probability and Statistics
  6. Discrete Mathematics

- CS/ICT Required Course (10 courses)
  1. Global Information Society
  2. Introduction to Computing and Programming
  3. Object Oriented Programming
  4. Data Structures and Algorithms
  5. Database Management Systems and Web Application Design
  6. Data Communications and Computer Networks
  7. Computer Architecture and Operating Systems
  8. Internet and Mobile Technologies and Applications
  9. Information Systems and Software Engineering
  10. Senior Thesis

- *Regional Challenges (CS/ICT students are strongly recommended to take this course to fulfill the core RCHA requirement): ICT for Development: What, Why, and How?

CS Minor Requirements (5 courses)

- Introduction to Computing and Programming (CSCI 2000)
- Data Structures and Algorithms (CSCI 3002)
- Database Management Systems and Web Application Design (CSCI 3303)
- Computer Communications Network (CSCI 3000)
- Internet and Mobile technologies and applications (CSCI 4001)

ICT Minor Requirements (5 courses)

- Introduction to Computing and Programming (CSCI 2000)
- Global Information Society (CSCI/PPE 3xxx)
- Computer Communications Networks (CSCI 3000)
- Internet and Mobile technologies and applications (CSCI 4001)
DEVELOPMENT STUDIES
(Minor)

Mission
What is development? How has it been practiced, understood and theorized? In Development Studies, students are invited to explore the process, structure and institution of development through a diversity and plurality of perspectives, approaches and models. Recognizing the complexity of issues Development Studies requires its students to take interdisciplinary courses which encompass, among others, ethical, political, socioeconomic, cultural and historical issues, dimensions and perspectives. Central issues explored in Development Studies will be poverty and urban challenges in the first urban century, while also recognizing the continuing importance of rural and regional development.

Learning Objectives
• Understand the central paradigms and key concepts in development discourses, theories and practices.
• Acquire the skills of conducting critical, nuanced and constructive analysis and integrative and interdisciplinary thinking.
• Locate development as societal change (from socioeconomic to spatial, political and cultural), as well as the process of trying to direct that change. Therefore, students in Development Studies will understand how development theories and practices have interacted with planning theories and practices in shaping one another.
• Identify and analyze the roles and responsibilities of the different actors and stakeholders in the development project and processes.
• Identify and examine the ethical challenges and dilemmas in development planning and action, including financing development and development aid.
• Analyze the political dynamics, dimensions and debates in development paradigms, practices and processes.

Minor Requirements (5 courses)
• Theories and Practices of Development (ASIA/PPE3650)
• 4 courses from the list below, 3 of which must be 3000-level or above
ECONOMICS  
(Major and Minor)

Mission Statement
The primary objective of the Economics major is to provide undergraduate liberal arts students with a rigorous, in-depth, broad, and critical program in theoretical and empirical economics. Our curriculum provides a solid grounding in neoclassical theory, statistical and econometric methods, and their applications in the various fields of economics. This education at AUW would help students think critically about the economic issues they confront in their everyday lives. It would foster the development of necessary skills that enable our diverse student body to actively engage in a gamut of policy issues in local, national, and global communities; and compare and contrast alternative methodologies in assessing the broader social and political consequences of various economic doctrines.

Learning Outcomes
The core program goal is to ensure our students possess a basic knowledge of microeconomics concepts such as supply and demand, consumer decision making, elasticity, costs, market structure, and labor markets; and a basic knowledge of macroeconomics concepts including national income accounting, inflation, unemployment, and monetary and fiscal policy.

Other important learning goals are:
- To apply general concepts learned from economic theory and methods, to particular fields of economics.
- To analyze and explain current economic events in the local and global communities under the framework of economic theory.
- To demonstrate an ability to generate and interpret descriptive statistics.
- To articulate an economic hypotheses and interpret econometric tests of the hypothesis and explain the results and policy implications.
- To explain and evaluate the relevant benefits and costs that needs to be considered when comparing decision options and policy choices.
- To effectively communicate, in oral and written form, basic economic concepts, analytical methods, and policy choices.

Economics Major Requirements (10 courses)

- Students should take the following two courses, preferably in the first two years. These courses can be counted as part of their Core Curriculum:
  1. Calculus I
  2. Probability & Statistics
- Calculus I is a pre-requisite for all the economics courses. Students must receive a grade of C- or higher in Calculus I to declare Economics as their major.
- Probability and Statistics is a pre-requisite for Econometrics.
- Principles of Microeconomics is a prerequisite for all other economics courses.
- Principles of Macroeconomics is a prerequisite for Intermediate Macroeconomics and Econometrics.
- Students must receive a grade of C- or higher in any course that will count toward the major.
Certificates and Degree Programs

All economics majors are required to successfully complete the following five courses:
1. Principles of Microeconomics
2. Principles of Macroeconomics
3. Intermediate Microeconomics
4. Intermediate Macroeconomics
5. Introduction to Econometrics

They also need to complete five elective courses from the following:
1. Introduction to Game Theory
2. Development Economics
3. Labor Economics
4. Public Finance
5. History of Economics Thoughts
6. Time Series Econometrics
7. Managerial Economics
8. Economics of Inequality
9. Growth and Development
10. International Trade
11. Environmental Economics
12. Industrial Organization
13. Monetary Economics
14. Financial Economics
15. Advanced Micro-Econometrics
16. Banking and Finance
17. Accounting
18. Any other 3000+ level course approved by adviser
19. Research Methodology/Senior Integrative Exercise/ Senior Research Seminar.

Minor Requirement (Minimum 5 Courses)

- Students should take Calculus I, preferably in the first two years. This course can be counted as part of their Core Curriculum.
- Calculus I is a pre-requisite for all the economics courses. Students must receive a grade of C- or higher in Calculus I to declare Economics as their major.
- Principles of Microeconomics is a prerequisite for all other economics courses.
- Principles of Macroeconomics is a prerequisite for Intermediate Macroeconomics.
- Students must receive a grade of C- or higher in any course that will count toward the minor.

All students interested in a minor in economics are required to successfully complete the following core courses:
- Principles of Microeconomics
- Principles of Macroeconomics
- Intermediate Microeconomics (3000 level)
- Intermediate Macroeconomics (3000 level)

They also need an elective course at 3000 level from the above mentioned elective course list for the major.
ENVIRONMENTAL SCIENCES  
(Major and Minor)

Mission Statement
The Environmental Sciences undergraduate degree at AUW provides a broadly based curriculum with a strong emphasis on basic science to understand the physical, chemical and biological systems of nature. This program within the liberal education framework provides the foundation for recognizing, assessing, and solving environmental problems at the local, regional, and global scale in a sustainable way. Graduate with this interdisciplinary background gains the means to become informed, responsible, active citizens, and leaders.

Learning Objectives
Environmental Sciences (ES) deals with diverse issues arising from the impact of human activities on natural systems. To address these problems, students are trained to apply acquired knowledge, tools and techniques from a variety of disciplines, such as biology, ecology, chemistry, toxicology, geology, hydrology, atmospheric science, engineering, statistics, and management. Overall, students completing this program will be able to:

1. Develop a broad, interdisciplinary framework for approaching complex, interconnected environmental problems we are facing
2. Develop strong analytic and quantitative skills needed to identify, design & conduct experiment, analyze and interpret data, and reach independent conclusions
3. Develop a rigorous scientific base across multiple disciplines (social, biological, and physical sciences) but with a strong concentration in one area so as to develop depth of expertise in that field
4. Communicate their findings to the scientific community, government agencies, non-government environmental organizations, and the public effectively (orally, in writing, and through electronic media)
5. Understand professional ethical responsibilities, contemporary environmental science issues and the impact of environmental science in a global, regional and societal context
6. Understand the need, and have the ability, to engage in lifelong learning and function effectively as a leader in the environmental field

Major Course Requirements (13 courses)
- Math and Science required (8 courses, 3 of which count towards the core)
  - General Biology I and II
  - Chemistry I and II
  - Physics I and II
  - Calculus I
  - Probability and Statistics or upper level math course
- Environmental Sciences Required Courses (4 courses)
  - Ecology
  - Geology
Certificates and Degree Programs

- Microbiology
- Environmental Chemistry and Toxicology

- Environmental Engineering Required Courses (2 courses)
  - Hydrology
  - Energy and Environment

- Environmental Science Electives (2 courses chosen from the following)
  - Waste Management
  - Environmental Hydraulics
  - Natural Disasters
  - Oceanic and Atmospheric Science
  - Global Climate Change
  - Other course approved by Environmental Science faculty adviser
  - Senior Undergraduate Research (equivalent to 1 or 2 course)

Note:
1. It is recommended that students take Environmental Challenges in Asia as a core course (regional challenge course) as part of the core curriculum.
2. Students who want to pursue a graduate program in environmental engineering are advised to take Calculus II, and Advanced Algebra and Differential Equations as electives.
3. Students who want to pursue natural resource management or other related program can take “Introduction to Environmental Science”, “Water Resources and Development” or other related course instead of Physics II.

Minor requirements (6 courses)

- Required from core (any two from following): General Biology I, Calculus I, General Chemistry I, Physics I
- Any one from the following: Water Resources and Development (ES 1001), Regional Challenges in Asia (RCHA 2000), Global Climate Change (ES 2001) Energy and Environment (ES 2001)
- Any three courses (3000 or above levels) from the following: Hydrology (ES 3000), Geology (ENVS 3002), Environmental Chemistry and Toxicology (ES 4001), Environmental Hydraulics (ES 4003), Natural Disasters (ES 4005)

FINE ARTS
(Minor)

Mission

We believe that Fine Arts is an important part of Liberal Arts education as colleges understand the significance of creativity and self-discovery as valuable aspects of students’ development. We believe that skills and knowledge gained through the arts create transferrable skills necessary in today’s global business and educational environments. With this minor, students will have an introduction to different careers and pathways in the arts through internships, community projects and international artistic exchanges. Students will gain a broad knowledge
Certificates and Degree Programs

of disciplines in Fine Arts, including theory, history, cultural management and practice/studio in fields such as the Visual Arts, Media Arts and Performance Arts. Students will gain aesthetic and critical perspectives along with techniques and methods of production in the arts.

**Learning Objectives.**
After completing this minor, students will be able to:
Identify and work with preservation and promotion efforts for local art site and forms.
Assess artistic performances and artistic displays through the application of aesthetic and critical perspectives they learnt in class.
Appreciate the values of creativity through the practice of different art forms, within the Applied Arts and Performance Arts, as well as be able to apply these throughout their academic studies and future career

**Minor Requirements (5 courses)**

To graduate with a minor in Fine Arts, students will have to complete 5 courses, at least three courses must be at the 3000-level or above, for a total of 20 credits. Student will have to take:

- one course in theory within the Arts
- one course in history within the Arts
- one course in practice (either performance, new media or visual arts)
- one course in Art or Cultural Management.
- The student should choose her fifth course after meeting with her advisor and discussing her current interest in Fine Arts and the path she is most interested in, either Research, Practice or Management.

**GENDER STUDIES**
(Minor)

**Mission Statement**
This interdisciplinary minor explores the construction of gender identity, sex and sexuality and uses gendered representation as a central category of analysis. Students apply a variety of theoretical approaches to understand the construction and operation of power relations, social inequalities and resistances to them in local, national and global contexts. The minor fosters inquiry into the relation of gender to politics, the labor market, family life, and practices of the production of knowledge and culture, paying mind to the intersection of gender with other categories of identity and modes of power, such as race, class, sexuality, religion, nationality, and ethnicity.

**Learning Outcomes**
After completing this minor, students will be able to:
- Demonstrate a critical approach to the analysis of gender, sex, and sexuality that incorporates intersectionality, transnationality, and cultural diversity.
• Apply theoretical concepts of gender and sexuality to your own life, including why and how you might embrace, resist, and/or alter gender and sexuality norms.
• Apply theoretical concepts of gender and sexuality to other disciplines and at the local, national, and global level.
• Implement efficient research skills and communicate findings in well-developed arguments.

**Minor Requirements (6 courses)**
Required courses (at least 3 courses must be at the 3000 level or above):
- Introduction to Gender Studies: History and Theories
- An approved Research Methods course
- One course in each of the following topic areas:
  - Theory
  - Social sciences
  - Humanities
  - Regional

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**MATHEMATICS**
(Minor)

**Mission Statement**
The mathematics minor is designed to provide students with a strong background in the skills of logic, reasoning, and critical thinking. We nurture a mathematical point of view in all of our students: those embarking on a liberal education, those desiring skills for other endeavors, and those pursuing contemporary ideas in mathematics. Students will develop the ability to think clearly and critically about complex problems requiring the application of quantitative skills in an interdisciplinary environment. Through a combination of individual attention, group collaboration students are encouraged to become life-long learners, and to apply their knowledge and skills to improve the world in which they find themselves.

**Learning outcomes**
The mathematics minor offers students a way to complement and enhance their major, while receiving valuable mathematics training. Students who successfully complete the mathematics minor will be able to:
- Exhibit an understanding of the nature of mathematics
- Reason with abstract concepts
- Follow complex mathematical arguments and develop their own mathematical arguments.
- Understand the interactions between mathematics and their respective field and demonstrate the ability to apply mathematical concepts and techniques in to problems in that field.

**Minor requirements (5 courses)**
Required:
1) Calculus-I
2) Calculus-II
Electives: (Any 3 from the following courses or similar courses approved by the Math Faculty)
1) Linear Algebra (3000 level)
2) Differential Equations (3000 level)
3) Numerical Methods & Computer Programming (3000 level)
4) Mathematical Programming (3000 level)
5) Discrete Mathematics (3000 level)

PSYCHOLOGY
(Minor)

Mission Statement
The Psychology Minor is designed to increase students’ understanding of psychological concepts, theories and methods, to help students develop skills related to the scientific study of human behavior, thoughts, and emotions, and to foster intellectual curiosity as well as an understanding and valuing of the complexity and variety of human behavior.

Learning Objectives
- Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- Students will understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
- Students will respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.
- Students will understand and apply psychological principles to personal, social, and organizational issues.
- Students will be able to communicate effectively in a variety of formats.

Minor requirements (5 courses)
2 required courses
- Quantitative Research Methods
- Mind and Behavior

3 approved psychology courses, such as: Social psychology, political psychology, psychology of women, cultural psychology, psychology of human sexuality, psychology of gender, and leadership, politics, and psychology.

At least 3 courses must be at the 3000-level or above and 2 of the 5 required courses may be “double dipped” with the core curriculum requirements

POLITICS, PHILOSOPHY, and ECONOMICS
(Major and Minor)
**Mission Statement**
*By fostering a rigorous understanding of philosophy, economics, and politics, we aim to produce critical scholars who are effective global citizens in the contemporary international context.*

**Learning Objectives**
The PPE major at AUW develops graduates who will be able to:
- Thoroughly understand the disciplines of politics, philosophy, and economics.
- Connect ideas, theories, and practical applications from the fields of this interdisciplinary major.
- Demonstrates sophisticated critical thinking skills.
- Demonstrate excellent skills in speaking, researching, reading, and writing.

**Major Requirements (10 courses)**

Students should take the following four courses, preferably in the first two years. These courses can be counted as part of their Core Curriculum:
1. Calculus I
2. Introduction to Ethical Reasoning
3. Introduction to Social and Political Thought
4. Probability & Statistics

The Major will require at least the following 10 courses in the following areas:

- **Economics:**
  1. Principles of Microeconomics
  2. Principles of Macroeconomics
  3. Intermediate Microeconomics
  4. Intermediate Macroeconomics

- **Politics:**
  5. International Relations
  6. Comparative Politics
  7. One PPE-Politics upper division program elective

- **Philosophy:**
  8. Principles of Critical Thinking
  9. Distributive Justice
  10. One PPE-Philosophy upper division program elective

Students must receive a grade of C- or higher in any course that will count toward the PPE major.
PUBLIC HEALTH
(Major and Minor)

Mission Statement
In line with the objective of developing women leaders in Asia, our mission is to train ethical public health leaders who can sustainably address and improve regional public health challenges and strive to eliminate health disparities across Asia.

Learning Objectives
- Identify contemporary public health challenges and effective interventions thorough appropriate literature review and creative thinking
- Discover, plan, develop, test and disseminate evidence-based sustainable interventions to regional health problems in ways that promote equity;
- Utilize sound methodology to design studies, develop valid instruments, collect valid and reliable data, and analyze collected data.
- Develop and present demographic, statistical, programmatic and scientific information for use by professionals and lay audiences aiming to influence others within the public health sector or government.
- Identify and use individual, team and organizational learning opportunities for personal, professional and organizational development.

Major Requirements (13 Courses)
- Mathematics and Science (5 courses, 3 of which may count towards the core)*
  - General Chemistry I and II
  - General Biology I and II
  - Probability and Statistics
- Public Health Courses (5 taken from those listed below)
  - Nutrition for Health
  - Principals of Biostatistics
  - Introduction to Epidemiology
  - Data Analysis: Applied Regression analysis with STATA
  - Research Methods in Epidemiology
  - Maternal and Child Health
- Social and Behavioral Sciences (3): 3 from at least two of the following areas
  - Psychology
  - Economics
  - Development Studies
  - Sociology
  - Anthropology
  - Political Science
- Advanced Ethics or Health Policy and Management (1 course)
Certificates and Degree Programs

- **Senior Thesis or Senior Seminar (2 courses)**  In 4th year: 1 course in Fall and 1 course in Spring

Note:
1. *This major prepares students for graduate programs in public health, medicine or management (management in health organizations)*. It is recommended that students take Public Health Challenges in Asia as their regional challenge course as part of their core curriculum requirements.
2. *Students who want to pursue a graduate program in management may need to take Linear Algebra and Probability and Statistics as additional math electives.*
3. *Courses offered may change with student interest and faculty availability.*

**Minor Requirements (6 courses)**

Required Courses:
A. **Public Health Courses** (4)
   - a. Regional Public Health Challenges/ Introduction to Public Health
   - b. Nutrition for Health
   - c. Principals of Biostatistics
   - d. Introduction to Epidemiology

B. **Additional courses** (2):
   - a. Non-science Major:
     i. Two Additional Science from:- General Biology I and II, General Chemistry I and II, Anatomy and Physiology I and II, Climate Change, Cell and Molecular Biology, Genes and Genomes etc.
   - b. Science Major:
     i. Two Additional courses from following areas:- Psychology, Economics, Development Studies, Sociology, Anthropology, Advanced Ethics or Health Policy and Management

**International Study/Experience**

*Recommended*
- Summer International Internship
- Summer Study Trip
- Summer Study Abroad Programs
- Summer Undergraduate Research experience abroad
ACADEMIC POLICIES AND PROCEDURES

ACADEMIC ACTIONS POLICY

The Asian University for Women is committed to maintaining high academic standards while enabling student success by providing students academic support and counseling throughout their academic career. The academic action policy is designed to:

a. inform students of the University’s academic standards and procedures;
b. identify students who may be in danger of failing one or more courses;
c. provide effective intervention and academic support

The academic actions policy does not cover disciplinary actions related to non-academic matters. Refer to the section titled Disciplinary Procedures for Violating a University Policy.

Academic Standards

All students are expected to meet the following minimum standards in order to remain in good academic standing:

a) A minimum 2.0 grade point average (GPA) each term;
b) A minimum 2.0 cumulative grade point average (CGPA);
c) Maintaining adequate progress toward completing 32 credits per year. No students may enroll in fewer than 12 credits per term.

Any student who does not meet the above standards will be subject to academic actions. Depending on the circumstances, one of six actions may be taken:

a. Academic Alert,
b. Academic Warning,
c. Academic Probation,
d. Final Academic Probation,
e. Suspension, and
f. Expulsion.

Please refer to the chart on the next page and then read the explanation for each academic action. It is the student’s responsibility to read this section very carefully and to understand the full implications of each type of academic action. If a student does not understand any of the terminology or implications the student may contact her advisor or the Registrar for further clarification. The student should be aware of her academic shortcomings and AUW’s expectations and must be pro-active in seeking help and using all resources available on campus. While some academic actions may not appear on the student’s transcript, all academic actions will be recorded in the Student Information Systems Database in the Registrar’s Office. The Academic Actions Committee will be apprised of all past and current academic actions entered in the student’s academic record. While every effort is made to ensure accuracy of academic records, the student is advised to check her transcript regularly to make sure there are no discrepancies in her academic record in regard to grades, course names and credit earned etc.
# Academic Policies and Procedures

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<th><strong>ACADEMIC ALERT</strong></th>
<th>Duration: 1 semester</th>
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<tbody>
<tr>
<td>Inadequate Academic Performance in class during a semester</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ACADEMIC WARNING</strong></th>
<th>Duration: 1 semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two or more courses with a grade below C- in one semester, or</td>
<td></td>
</tr>
<tr>
<td>Fewer than 32 credits per year or 12 per semester, or</td>
<td></td>
</tr>
<tr>
<td>More than 4 Academic Alerts</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ACADEMIC PROBATION</strong></th>
<th>Duration: 2 semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term GPA less than 2.0, or</td>
<td></td>
</tr>
<tr>
<td>CGPA less than 2.0, or</td>
<td></td>
</tr>
<tr>
<td>More than 2 Academic Warnings</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FINAL ACADEMIC PROBATION</strong></th>
<th>Duration: 1 semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student does not make progress as per conditions laid out in the</td>
<td></td>
</tr>
<tr>
<td>Academic Probation Contract</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SUSPENSION</strong></th>
<th>Duration: 2 semesters (Fall and Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student does not make progress as per conditions laid out in the</td>
<td></td>
</tr>
<tr>
<td>Final Academic Probation Contract</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EXPULSION</strong></th>
<th>Duration: Permanent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student does not make adequate progress upon being readmitted</td>
<td></td>
</tr>
<tr>
<td>after a two semester Suspension.</td>
<td></td>
</tr>
</tbody>
</table>

Please note that a student may be put on Academic Probation without being put on an Academic Alert or Academic Warning if the student’s term GPA or CGPA drops below 2.0 at the end of any semester.
Academic Policies and Procedures

Academic Alert

The purpose of an Academic Alert is to identify and warn students who may be in danger of failing one or more courses. Through this process, the University can intervene, inform the students that a change is necessary, and connect struggling students\(^1\) to existing services and resources so that they can maintain or improve their GPA.

Near the 6\(^{th}\) week of the semester\(^2\), faculty members are asked to identify students in their classes who may be in danger of failing as well as the reason for their concern. Alerts may be issued for excessive absences, trouble with subject matter, not completing assignments, and/or writing deficiencies.\(^3\)

Academic Alerts will be recorded in the Student Information Systems Database in the Registrar’s office. These will not appear on a student’s official or unofficial transcript. If a student receives 4 academic alerts, the student will be asked to meet with the Academic Actions Committee.

The Academic Alert involves a comprehensive step by step process by identifying students with difficulties early in the semester and to provide academic support when it is most needed:

1. A faculty member, academic advisor, or AUW staff will submit a referral to the Registrar’s office by completing an Academic Alert Form\(^4\) anytime during the term, and especially at the 6\(^{th}\) week deadline.
2. Except in emergencies, the Registrar will share the alert with the Student Support Team (SST) during the SST’s regularly scheduled meetings, and a representative from the SST will review the referral and meet with the student of concern. After the meeting, the SST member will email both the student and the referring faculty member a summary of the meeting.
3. Once a student has been contacted and there is some resolution of the issue (e.g. setting new, measurable objectives and goals that the student can complete within a specified amount of time), the referring faculty member, academic advisor, or AUW staff will be contacted via e-mail by an SST member to follow-up on the progress made with the student.
4. Information that is considered confidential will not be revealed. Please note that some confidential student information cannot be made available to faculty and staff, e.g., counseling referrals.
5. The SST member assigned to the case will maintain contact with the student for the remainder of the semester to follow up and provide ongoing support.

Academic Warning

A student will be issued an Academic Warning if:

\(^1\)AUW defines “struggling students” as those students who: have poor attendance; are continually late for class or leave early; don’t take notes; are inattentive; don’t participate; or any student, who in the opinion of the faculty instructor, is unlikely to be successful in a given course.

\(^2\)Alerting a student at the six-week mark gives them enough time to change their behavior and has a greater impact on their overall performance. Faculty members can, however, refer a student they are concerned about at any time during the term, either before or after the Academic Alert deadline.

\(^3\)For a complete list of warning signs and behaviors a struggling student may exhibit, please see the section titled “Information for Faculty and Staff” at the end of this policy.

\(^4\)https://docs.google.com/a/auw.edu.bd/forms/d/1h_kx4yr-YNyqsCe-pOBRQX-xt-vTYUexnvKJwsnTSv8/edit
a. Credits in courses that count towards the GPA are fewer than 32 per academic year, or less than 12 per term, or
b. Grades in two or more courses fall below “C-” in any term or
c. If the student has 4 or more academic alerts

The Academic Warning will not appear on a student’s permanent record but will be recorded in the Student Information Systems Database in the Registrar’s office.

When an Academic Warning is issued, the Undergraduate student must meet with her academic advisor to determine what steps she must take to get back on track in her academic career. During the course of the term, the academic advisor will maintain contact with the student to follow-up and help her get ongoing support through the Student Support Team.

Academic Probation

A student will be placed on Academic Probation if:

a. Her term GPA falls below 2.0, or
b. Her cumulative GPA falls below 2.0, or
c. She has more than two academic warnings.

The Academic Probation will be recorded on the student’s unofficial transcript. The student’s progress will be monitored by the Student Support Team and her advisor after the student signs an academic probation contract. Both will provide ongoing support to the student for the subsequent term(s).

The Probation status will be lifted, and removed from the unofficial transcript, if the student’s term GPA and cumulative GPA meet minimum standards within two terms (Fall and Spring). The record will however remain in the Student Information Systems Database in the Registrar’s Office.

If a student fails to meet minimum term GPA/CGPA standards at the end of two terms, but is seen to have made some progress she will be given one more term to make up any deficits under Final Academic Probation.

If a student at any time while on probation receives a GPA/CGPA of less than 1.000, the Academic Actions Committee may use their discretion to place the student on suspension.

The student’s guardians will be notified when the student is placed on Academic Probation.

Final Academic Probation

A student will be placed on Final Academic Probation if she has failed to make up academic deficits while on academic probation.

An Undergraduate student placed on Final Academic Probation will have to meet with the Academic Actions Committee and her academic advisor to discuss and arrange a plan for success and also sign a Final Academic Probation contract. The student must withdraw from any extracurricular activities, including any work-study jobs, she is committed to and focus solely on her studies. Her progress will be monitored by her advisor and the Student Support Team.
Academic Policies and Procedures

The Final Academic Probation status will be lifted, and removed from the unofficial transcript, if the student’s CGPA and term GPA meet minimum standards in the subsequent term, but will be recorded in the Student Information Systems Database in the Registrar’s Office. If the student does not fulfill the requirements of the Final Academic Probation Contract, she will be placed on Suspension.

The student’s guardians will be notified when the student is placed on Final Academic Probation.

**Suspension**

An undergraduate student who fails to meet minimum standards after a term in Final Probation will be placed on Suspension for a minimum of two terms (Fall and Spring). When a student is placed on suspension:

- The action will be recorded on the student’s unofficial transcript while the student is on Suspension
- The student’s parents or guardians will be notified in writing of the Suspension
- The student must leave campus at the earliest possible time, at her own expense, after being notified of the Suspension and may not return to campus without prior permission from the Academic Actions Committee
- The student cannot participate in any AUW academic or extracurricular activities during the Suspension, including registering for future courses.

Any student placed on Suspension must reapply to return to AUW. If readmitted, students will return on a Final Academic Probation status for one semester and will sign a new Final Academic Probation Contract. Readmitted students who, by the end of the semester, do not meet the terms of this new contract will be expelled from the University.

**Appeal Process for Suspension**

A student may appeal the suspension if the procedures above have not been properly followed. The written appeal should be directed to the Vice Chancellor, who will constitute a Hearing Board to examine the details of the case. If the decision is that the procedure was properly followed, the Board will recommend to the Vice Chancellor the suspension will be upheld. If the decision is that the procedure was not properly followed, the Board will recommend to the Vice Chancellor the student be reinstated under the conditions of final probation. The final decision is that of the Vice Chancellor.

Instructions on registering for classes will be provided if reinstated.

A student can only appeal the Suspension within the timeframe given in the suspension notice. No appeals of academic dismissal will be heard after the assigned deadline.

**Returning from Suspension**

Suspended students will be notified by the Academic Actions Committee with instructions on how to apply for readmission into AUW. In order to return, the student must submit:

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5 Generally, a suspended student will have to pay for her travel expenses; however, in cases of extreme financial need, AUW may provide financial assistance.
1. A Petition to Return From Suspension
2. A letter describing in detail what she has been doing during her time away and her plan for succeeding when she returns
3. Transcripts from other colleges if she has taken courses
4. Evidence of satisfactory work experience if she engaged in work
5. Names, addresses, and e-mail addresses of three individuals (not friends or relatives) with whom the student has worked or studied (these individuals will be contacted and asked to forward a letter of reference on the student’s behalf attesting to their readiness to resume their studies)

The application packet will be reviewed by the Academic Actions Committee and the student will be notified once the committee makes its decision. If a student does not submit the necessary readmission material by the due date, the student’s petition to return will be denied and she will be expelled from the University.

**Expulsion**

Any student who fails to meet minimum standards, the conditions set upon her by the Academic Actions Committee as part of her readmission, or the standards of her Final Probation after returning from Suspension, will be expelled from the University. When expelled, the student must leave campus at the earliest possible time after being notified of the expulsion, and she may not reapply for admission to AUW. Her parents or guardians will also be notified of the expulsion.

A student may appeal the expulsion if the procedures above have not been properly followed. The written appeal should be directed to the Vice Chancellor, who will constitute a Hearing Board to examine the details of the case. If the decision is that the procedure was properly followed, the Board will recommend to the Vice Chancellor the expulsion will be upheld. If the decision is that the procedure was not properly followed, the Board will recommend to the Vice Chancellor the student be suspended. The final decision is that of the Vice Chancellor.

Instructions on registering for classes will be provided if reinstated.

A student can only appeal the expulsion within the timeframe given in the suspension notice. No appeals of academic dismissal will be heard after the assigned deadline.

**Additional Information**

*The following information is issued to faculty and staff with regard to student academic performance:*

If a student in your class demonstrates any of the following warning signs or other behaviors you feel may put the student’s success at risk, please issue an academic alert.

- Missing two or more classes within the first two weeks of the semester
- Missing two or more consecutive classes without notification
- Consistently late to class

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6 In the case that an Academic Actions Committee is not formed, the Dean of Students, the Dean of Faculty, and a member of the UG faculty will review the application packet.
- Low or no engagement in the classroom (sleeping in class, not taking notes, talking, texting, or lack of participation)
- Not coming to office hours for support when being asked by an instructor or when not doing well in class
- Low or no motivation
- Poor academic performance or marked change in academic performance
- Failure to acquire textbook or other course materials
- Failure to complete reading assignments
- Lack of preparation for assignments
- Failure to demonstrate the skills needed for the course/assignments
- Isolation – student does not seem to be making appropriate peer connections
- Disruptive behavior
- Exhibiting an attitude affecting the engagement of other students in the class
- Poor quality of work and/or late/missing assignments
- Other: academic difficulty due to personal issues outside the classroom (financial, transportation, etc.)
- Other concerns that pose a threat to student success

Resources

Students who find that they are struggling to meet course requirements have a number of resources available to them. AUW encourages students to utilize these resources, and speak to their academic advisors about other resources that may not be listed here.

The best resource available to any student is her course instructor. The course instructor will be able to explain course expectations, content, and what the student can do to perform well in the course. Thus, AUW encourages students to visit their course instructors during office hours or schedule an appointment.

Students can also use the AUW Writing Center and hire a peer tutor through the Peer Tutoring Services.
ACADEMIC HONOR CODE

The mission of the Asian University for Women (AUW) is to educate ethical leaders. All forms of unethical behavior are serious violations of our mission, and therefore, will not be tolerated.

Perhaps nothing matters more to your faculty than the integrity of your academic work. Universities are based upon the fundamental principle that the work you present as your own is truly yours because the academic community revolves around ideas and creativity. Each person’s ideas are his or her contribution to the academic community. Therefore, taking another person’s ideas and representing them as yours is a serious form of dishonesty in the academic community. Similarly, cheating (copying someone else’s work, asking for answers, sharing answers, etc.) and other forms of dishonesty (falsifying data, making up references, etc.) are also considered to be serious forms of dishonesty.

AUW students are expected to reflect a high standard of integrity in all areas of their lives, with this standard stemming not from mere compliance with external rules, but from a personal commitment to these values. Therefore, students must pledge to abide by the Academic Honor Code:

As a student of the Asian University for Women, I will not participate in or tolerate academic dishonesty.

Students who violate the above pledge not only compromise their own integrity, but they undermine the mission of the AUW. Below are some standards and procedures that (1) explain what plagiarism and other forms of academic cheating are, and (2) allow the faculty and administration to impose serious consequences when such forms of unethical behavior occur.

Plagiarism

Plagiarism is intentionally taking credit for another’s words or ideas.

You may not plagiarize in your academic work and you must adhere to the following:

- When you use someone else’s words (whether they are from a distinguished author or a classmate’s paper), you must place in quotation marks the words you use and then give the appropriate citation of author and source. A good guideline to use to avoid plagiarism is that if you are quoting three or more sequential words from someone else, you must always put those words in quotation marks.
- If you paraphrase (reword) another person’s ideas, then you must also cite the source. Paraphrasing must involve changing the words and sentence structure of the original source.
- You must cite materials you find on the internet and either copy or paraphrase, even if the author is not identified.

The various academic disciplines (humanities, social sciences, sciences) have slightly different formats that are to be used for footnotes, endnotes, and bibliographies. Your professor for a particular class will tell you which format he or she wants you to use in that class.

Consequences of Plagiarism

First Offense: A student who plagiarizes for the first time will receive a grade penalty on the paper or assignment. The professor, based on the severity of the plagiarism, will determine this grade penalty. The student may be required to rewrite the paper or assignment. Additionally, the student will meet with the
relevant faculty member and Program Chair to discuss the offense. During the discussion, notes will be taken on the Academic Misconduct Report Form\(^7\), and all three will sign the form to confirm that the student has understood the nature of the offense. The completed form will be submitted to the Office of the Registrar, and kept in the student’s file.

**Second Offense:** A student who plagiarizes for the second time in a course will receive an F in the course and be given a warning. She will meet with the relevant faculty member, Program Chair (if any), and the Dean of Faculty to discuss the offense. During the discussion, notes will be taken on the Academic Misconduct Report Form, and all four will sign the form to confirm that the student has understood the nature of the offense. The completed form will be submitted to the Office of the Registrar, and kept in the student’s file.

**Third Offense:** A student who plagiarizes for the third time (cumulative offenses) will both fail the course in which they have plagiarized and be placed on academic probation. This student will also lose any named scholarship she holds and will not be eligible to compete for summer academic opportunities or represent AUW at conferences or events.

**Fourth Offense:** A student who plagiarizes for the fourth time (cumulative offenses) will be suspended from the University.

**Fifth Offense:** A student who plagiarizes for a fifth time (cumulative offenses) will be expelled from the University.

**Cheating on Exams or Quizzes**

Copying, asking for answers, sharing answers, and any other form of cheating (misrepresenting your own work and knowledge) on exams or quizzes are all forms of academic dishonesty.

**Consequences for Cheating on Exams or Quizzes**

**First Offense:** The professor in whose class the cheating occurred may either fail the student on the quiz or test or fail the student in the class, depending on the degree of cheating. After the professor has identified cheating, the student will be required to meet with the relevant faculty member and Program Chair to discuss the offense. During the discussion, notes will be taken on the Academic Misconduct Report Form\(^8\), and all three will sign the form to confirm that the student has understood the nature of the offense. The completed form will be submitted to the Office of the Registrar, and kept in the student’s file.

**Second Offense:** Students who cheat for a second time (cumulative offenses) will fail the class in which they cheat and be suspended from the university for one term. The student will be placed on academic probation, lose any named scholarship she holds, will not be eligible to compete for summer academic opportunities or represent the AUW at conferences or events.

**Third Offense:** Students who cheat for a third time (cumulative offenses) will be expelled from the university.

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\(^7\) Faculty members can collect the Academic Misconduct Report Form from the Office of the Registrar

\(^8\) Faculty members can collect the Academic Misconduct Report Form from the Office of the Registrar
Other Forms of Academic Dishonesty

a. **Making up references, quoting wrong sources, etc.** You may not make up reference information or sources or cite other sources instead of the actual source of the material you are using.

b. **Falsifying data.** You may not make up or falsify data as part of surveys, in laboratory experiments, or in any other academic exercise.

c. **Misrepresenting your situation to be excused from academic work.** You may not go to the nurse or the counselor with a made up excuse in order to be given an extension on a paper or other assignment or avoid taking an exam.

d. **Submitting the same paper in more than one class.** You may not submit the same paper, or substantively the same paper, in more than one class unless you are given permission by both faculty members (or by the second faculty member in the event the second class occurs in a later semester). If permission is given, you must follow instructions on any modifications you must make.

e. **Informing a student in a later class about questions on tests or quizzes.** When tests or quizzes are given for multiple classes that meet at different times, a student who takes the exam at an earlier time may not inform students who will take the exam during a later time about the test questions and/or answers or anything else regarding the contents of the test or quiz.

f. **Misrepresenting your academic work or qualifications in any way.** Examples include misrepresenting one’s grade point average or academic qualifications on an application for an internship or summer study.

Consequences for Other Forms of Academic Dishonesty

**First Offense:** The professor in whose class the academic dishonesty occurred may either fail the student on the assignment or fail the student in the class. After the professor has identified academic dishonesty, the student will be required to meet with the relevant faculty member and Program Chair to discuss the offense. During the discussion, notes will be taken on the Academic Misconduct Report Form, and all three will sign the form to confirm that the student has understood the nature of the offense. The completed form will be submitted to the Office of the Registrar, and kept in the student’s file.

**Second Offense:** Students who cheat for a second time will fail the class in which they cheat and be suspended from the university for one term. Students who are found guilty of academic dishonesty will be placed on probation, lose any named scholarship they hold, and will not be eligible to compete for summer academic opportunities or represent the AUW at conferences or events.

**Third Offense:** Students who cheat for a third time will be expelled from the university.

**Important Notes:**

Note that actions taken for ethical violations will add to any existing academic actions or serve as the starting place for subsequent academic actions. For example, in the case of plagiarism or cheating an action taken will be the next most severe action after the one a student has already received for poor academic performance.

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9 Faculty members can collect the Academic Misconduct Report Form from the Office of the Registrar.
academic performance. In the case of an academic action coming after an ethical violation, the action taken will be more severe than that given for cheating or plagiarism.

A record of each incidence of plagiarism, cheating, or any form of academic dishonesty will be kept by the AUW Registrar in the student’s file. The Academic Actions Committee\(^\text{10}\) will review incidences of academic dishonesty after the end of each semester.

A student’s financial aid will not be extended beyond four years of undergraduate study due to the student having to repeat courses due to failing grades resulting from poor academic performance or cheating/plagiarism violations.

**ATTENDANCE POLICY**

AUW expects students to regularly attend all class meetings. However, instructors may have specific attendance requirements for individual courses, so students are expected to review their syllabus and acquaint themselves with and meet all course requirements.

**Definitions:**
- *Attendance* is defined as physical attendance or participation in an academically related activity such as submission of an assignment, an examination, participation in a study group or an online discussion, etc. Instructors who do not take attendance may utilize key assessment points (e.g. projects, papers, midterm exams, and discussions) as benchmarks for participation.
- *Excused Absence* is defined as an absence approved or authorized by AUW.
- *Unexcused Absence* is defined as any absence not approved or authorized by AUW.

**Excused Absences**
1. Death in the immediate family (parent or siblings), for up to one week.
2. Hospitalization for serious illness or medical problem/disability, for up to two weeks (for longer illnesses, a medical leave for the term may be granted, the procedures for which can be found in the Voluntary Withdrawal Policy).
3. Attending an AUW sponsored event or representing AUW at a meeting or event, for up to one week.

In these cases, students will have the opportunity to make up academic work that is missed and will be given an excused absence from their physical education classes.

Notification will be sent to the Registrar who will then send the notice to the relevant faculty and keep a record of the excused absence.

Medical leaves or extended absences from physical education will be granted by the Dean of Faculty and go to the Registrar who will inform the relevant faculty.

**Unexcused Absences**
1. Family events (e.g., weddings).
2. Attending to family problems, illnesses of family members.

\(^{10}\)In the case that an Academic Actions Committee is not formed, the Dean of Students, the Dean of Faculty, and a member of the UG faculty will review the incidences of academic dishonesty.
3. Attending a conference, event, or other outside activity that is not authorized by the AUW, even if the organizer awards the student the funds to attend.

A student may still choose to attend and/or participate in these outside activities, but will need to accept the consequences of missing whatever academic work occurs during their absence. In these cases, there will be no possibility to make up academic or physical education class work.

Additionally, students who have a large number of unexcused absences will be subject to Academic Actions such as an Academic Alert. For more information on Academic Actions, please refer to the Academic Actions Policy. If a student has a large number of unexcused absences in several courses, the student’s status will be reviewed by the Dean of Students and the Dean of Faculty/Director of Access Academy, and the student may be subject to suspension or expulsion.

First Day Attendance

Students are expected to attend the first day of class of a semester. If a student is not present at the first class, and there are students waiting to be added to the course, the instructor may drop the student from the course for non-attendance. The student who is dropped would then have to add a course that has space once she returns to campus. If the student has an extraordinary reason for not being able to get back to campus by the first day of classes, she should email her instructors and ask them not to drop her. However, instructors have the right to deny or grant this request at their own discretion.

GRADES

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Point Value</th>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td>98-100^</td>
<td>Excellent to very good; comprehensive knowledge and understanding of subject matter; marked insight and/or originality.</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>94-97</td>
<td>Good: moderately broad knowledge and understanding of subject matter; noticeable insight and/or originality.</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>90-93</td>
<td>Satisfactory: reasonable knowledge and understanding of subject matter; some insight and originality.</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>87-89</td>
<td>Marginal: minimum of knowledge and understanding of subject matter; limited insight and/or originality.</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>84-86</td>
<td>Failing: unacceptably low level of knowledge and understanding of subject matter; severely limited insight and/or originality.</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>80-83</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>77-79</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>74-76</td>
<td></td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>70-73</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>67-69</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>64-66</td>
<td></td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td>60-63</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>Less than 60</td>
<td></td>
</tr>
</tbody>
</table>

^These percentages are meant to serve as a guideline. Curves may be used to adjust actual percentages so that they match the descriptions created for a particular class.

The letter grade for each course as well as semester and cumulative GPAs will appear on the transcript.
Symbols Used in Lieu of Grades

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>P / F</td>
<td>Pass / Fail: May be used in special courses and situations (some summer programs, courses that involve an internship or other practicum)</td>
</tr>
<tr>
<td>INC</td>
<td>Incomplete: (1) Student has substantial equity in the course and (2) is unable to complete course requirements because of circumstances beyond her control. Only faculty members may award grades of INC.</td>
</tr>
<tr>
<td>R</td>
<td>Registered in year-long course which does not require a grade at the end of the first term (a possible example, might be a year-long senior thesis)</td>
</tr>
<tr>
<td>NA</td>
<td>Not attending: Student is officially enrolled in a course but has not attended or participated in class work (for use at midterm only; not accepted at end of term and not entered on student transcripts).</td>
</tr>
<tr>
<td>W</td>
<td>Withdrew from course (with advisor’s written permission) beyond midterm.</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrew from course/stopped attending (without permission)</td>
</tr>
</tbody>
</table>

Calculating (Cumulative) Grade Point Average

To calculate a (C)GPA, multiply the value of the grade received (point values shown above) by the credit hours for the course. Then add up the total points and divide by the total credits. As an example:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credits</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course 1:</td>
<td>A</td>
<td>4.0</td>
<td>16</td>
</tr>
<tr>
<td>Course 2:</td>
<td>B</td>
<td>4.0</td>
<td>12</td>
</tr>
<tr>
<td>Course 3:</td>
<td>C+</td>
<td>4.0</td>
<td>9.32</td>
</tr>
<tr>
<td>Course 4:</td>
<td>F</td>
<td>4.0</td>
<td>0</td>
</tr>
<tr>
<td>Totals:</td>
<td></td>
<td>16</td>
<td>37.32</td>
</tr>
</tbody>
</table>

GPA = total quality points ÷ total credits

For example, 37.32 ÷ 16 = 2.33 (To calculate your CGPA, just add more courses to the above formula.)

Grades of INC, P, and W are excluded from GPA calculation. A grade of WF is included as an ‘F’ grade in GPA calculation. Only grades for courses taken at AUW are factored into a student’s GPA.

Policy for Disputed Final Grades

If a student believes that her final grade has been unfairly assigned and has substantial evidence to support the grievance, she must first discuss the grade with her instructor. If, after the discussion, the matter remains unresolved, the student may file a formal written statement with a full explanation to the Dean of Faculty by the end of the sixth week of the following term or up to six weeks after grades have been released, whichever is later (Access Academy students should direct their request to the Director of the Access Academy). If the Dean/Director is unable to resolve the dispute, the student may then petition to the Academic Actions Committee and request a grade review. This request must be filed within 30 days of the Dean/Director’s decision. The Committee will review the case, confer with the Vice Chancellor, and upon the Vice Chancellor’s approval, their decision shall be final.

11If an Academic Actions Committee has not formed, then the Dean of Faculty and/or the Director of Access Academy must form a temporary faculty review board to evaluate the case.
Grade Reports, Transcripts, and Records

Students can access their term grades/academic record on AUW’s secure website (www.auw.edu.bd/Transcript/). An email notification will be sent when new grades are added to an academic record.

All student records are confidential, and information will only be released at the request of the student or an appropriate institution. In order to ensure confidentiality, all requests for transcripts must be submitted in writing and personally signed. Transcripts will only be released when the student has met all financial obligations to AUW. A transcript request should be submitted at least three business days in advance of the date on which it is needed, one week in advance during registration and commencement periods. Once students are awarded their undergraduate degrees from AUW, no changes can be made to their official academic records.

Honor Roll

Each semester, a student can make the honor roll list by receiving a GPA of 3.5 or higher as long as she is enrolled in a full-course load (4 courses or 16 credits). This honor will be noted on the student’s official transcript.

Incompletes

If a student receives an INC grade, the professor and the student will need to devise a plan for the student to complete the work and the student’s progress will be monitored. Failure to complete the work in the allocated time, within a maximum of six weeks, will result in a grade being assigned based on work completed.

Repeating Coursework

For credit/GPA purposes, students may only retake those courses in which they have received grades of C- or lower. All grades earned will remain permanently on the student’s academic record; however, only the grade and credit recorded for the last time the course is repeated are used in the calculation of the cumulative GPA and credits earned. Students should be aware that repeating coursework can affect their progress towards degree completion, which in turn will affect their eligibility to receive financial aid.

Transfer Students

To be eligible for admission to AUW, prospective students must have a minimum cumulative grade point average (GPA) of 2.85 from the transferring institution(s). They must also complete an admissions application and sit for the entrance exam prior to meeting with the Registrar, who is the institutional transfer officer responsible for the initial evaluation.

Transfer Credits

Prospective students wishing to transfer to the Asian University for Women (AUW) or current AUW students who plan to study at another institution for a short period of time may request to have their courses and grades evaluated for transfer credit. Below are the procedures.

Current Students
Current students who have the opportunity to study at another institution for either a term or an academic year should first request approval from their academic dean for temporary withdrawal from the University. They should also consult their academic advisor that the courses studied will transfer into their core curriculum and/or major at AUW. This request must be made in writing at least two weeks before the start of term. Once approved, the student will be notified of the withdrawal procedures.

**Evaluation**

To have courses and grades evaluated for transfer credit, both prospective and current students should first provide an official copy of their transcript to the Office of the Registrar either via email or fax once they are ready to enroll at the University. The Registrar, with the help of relevant academic departments, will then evaluate the transcript(s) to determine if the courses meet the department standards and the number of credits that can be accepted. Only courses with a grade of “C” or better will be considered for transfer credit. To help make a determination, students may need to provide catalog course descriptions and/or course syllabi.

After the Registrar has evaluated the transcript(s), s/he will schedule a meeting with the student, either in-person or via phone. During this meeting, the Registrar will inform the candidates of acceptable credits.

**GRADUATION HONORS**

Three grades of Latin honors are awarded at graduation for superior attainment in scholarship. B.Sc. and B.A. diplomas are inscribed *summa cum laude, magna cum laude*, and *cum laude*, based on the following minimum cumulative GPA requirements:

- **Summa cum laude (highest honors) – CGPA 3.9 or higher**
- **Magna cum laude (high honors) – CGPA of 3.75**
- **Cum laude (honors) – CGPA of 3.5**

CGPAs will not be rounded for calculating Latin honors.

**WITHDRAWAL POLICY**

The following policy outlines various types of course withdrawals. Items marked with an asterisk (*) only apply to Undergraduate students.

**Adding/Swapping a Course**

Students can add a course to their schedule, or simultaneously add a course while dropping another, during the Drop/Add Period as listed on the Academic Calendar. If the student is adding a fifth course, she must have a minimum GPA of 3.00 in the previous term. First year undergraduate students are not allowed to take a fifth course in their first term.

To add or swap a course, a student must complete the Add/Drop form, which can be found in the Office of the Registrar, in consultation with the course instructor and the academic advisor. Her course instructor and academic advisor must sign the form, signaling that they have consulted the student and made sure all academic standards are met. The completed form must be deposited at the Office of the Registrar.
Dropping/Withdrawing from an Individual Course (without a “W” on the transcript)*

Any student wishing to withdraw from a course without a “W” (known as a drop) may do so before the “last day to withdraw from a course without a “W” grade” (as listed on the Academic Calendar), as long as the student remains registered for at least 12 credits (or three 4-credit courses).

An eligible student can drop a course by completing an Add/Drop form in consultation with her course instructor and academic advisor. Her course instructor and academic advisor must sign the form, signaling that they have consulted the student. Completed forms then must be deposited at the Office of the Registrar.

Withdrawing from an Individual Course (with a “W” on the transcript)*

Any student wishing to withdraw from a course after the drop period may do so before the “last day to withdraw from a course with a “W” grade” (as listed on the Academic Calendar), provided she maintains a minimum 12-credit hour load (or three 4-credit courses). A “W” will appear on her academic transcript.

In order to withdraw from a course with a “W”, the student must complete a Withdrawal form in consultation with her course instructor and academic advisor. As with dropping a course, the course instructor and the academic advisor must sign the form, signaling that they have consulted the student. Completed forms then must be deposited at the Office of the Registrar.

Generally, students will not be able to withdraw from a course after the final withdrawal deadline. A petition may be filed by the student to the Academic Actions Committee¹², who will consult the student’s advisor and instructor, as well as medical personnel where appropriate (with the student’s written permission) in cases of the following excused absences:

1. Death in the immediate family (parent or siblings), for up to one week.
2. Hospitalization for serious illness or medical problem/disability, for up to two weeks (for longer illnesses, a medical leave for the term may be granted, the procedures for which can be found in the Voluntary Withdrawal Policy).

Complete Withdrawal (all courses)

If a student wishes to withdraw from all of her courses and discontinue her studies at AUW, she must initiate the complete withdrawal procedures listed below:

1. The student should write a formal written request to withdraw and jointly meet with the Dean of Students, the Director of Resident Faculty, and the program chair of her program. The student should be prepared to elaborate her reasons for withdrawal during this meeting.

2. If, after the meeting, the student wants to proceed with the complete withdrawal, she must complete the Student Withdrawal Form, which can be found at the Office of the Registrar¹³. She must then submit this form to her program chair and the Dean of Students. The program chair will

¹² If an Academic Actions Committee has not formed, then the request should be given to the Dean of Students.
¹³ Please note that the Student Withdrawal Form can only be collected during regular business hours, and it will take at least three days to process. Students should plan for travel accordingly.
notify the relevant faculty members; the Dean of Students will notify the relevant departments (e.g., Housekeeping/Library/Accounts).

3. After completing the Student Withdrawal Form, the student must complete a Clearance Form and obtain relevant signatures from each department. This form should be submitted to the Office of the Registrar, where the student can obtain relevant recommendations, certificates, and/or transcripts.

Students must initiate the above-listed procedure before the “last day to withdraw from a course with a “W” grade”. In such cases, the student will receive grades of “W” on all courses she has registered for.

Students who do not follow the procedures outlined above will not be granted honorable dismissal and will receive grades of “WF” on all registered courses.

Students who withdraw from the University prior to completing their degree must pay for the expenses associated with leaving the campus, including all travel expenses.

Students seeking readmission to AUW after completely withdrawing must contact the Admissions Office and reapply.

**Voluntary Leave of Absence**

Students admitted to AUW are expected to make regular and consistent progress towards both achieving the learning outcomes for a course and the completion of their degree. However, AUW understands that students may experience medical situations that significantly limit their ability to function successfully or safely in their role as students. In such situations, AUW recommends that students consider requesting a voluntary leave of absence so that they can receive treatment and return to their studies fully able to mentally and physically achieve their academic and co-curricular goals.

A voluntary leave of absence cannot be used in lieu of disciplinary actions to address violations of AUW rules, regulations, or policies, even if the leave request coincides with the disciplinary process. A student permitted to take a voluntary leave of absence while on academic and/or disciplinary status will return on that same status.

In general, a voluntary leave of absence should be requested prior to the beginning of a term. If a student makes a request to temporarily withdraw from courses due to a medical reason while a term is in progress, she will receive grades of “W” if the leave request is approved.

In order to request a voluntary leave of absence, a student must submit the following to the Dean of Faculty/Director of Access Academy and the Dean of Students:

1. A written letter of request from the student explaining her circumstances and consenting to release confidential medical information (as listed below) to AUW.

2. A signed, dated letter on letterhead from a medical care provider\(^\text{14}\) appropriate for the medical condition indicated. This letter should include a diagnosis of the condition, the symptoms, and the recommended treatment plan while the student is on leave. It should also confirm that the condition is serious enough to warrant a voluntary leave of absence.

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\(^{14}\) This includes the Health and Wellness Center at AUW
3. Once the request is received, the Dean of Faculty/Director of the Access Academy and the Dean of Students will discuss the request and inform the student of their decision in writing. Leave approval may require additional criteria, such as a meeting with the student’s academic advisor.

4. If the leave is approved, the student will need to complete a Student Clearance Form and return it to the Office of the Registrar prior to leaving campus. Like the Complete Withdrawal Form, the Student Clearance Form can only be collected during regular business hours, and usually takes up to three days to process.

5. The length of the Leave will be determined on a case-by-case basis, as each student’s situation is unique. However, students are not allowed to take a leave of absence longer than one academic year.

In general, students taking a voluntary leave of absence will be required to pay for the expenses associated with leaving and returning to campus, including all travel expenses. However, exceptions may be made on a case-by-case basis. Students seeking exception to this rule should write to the Vice Chancellor.

Returning From a Voluntary Leave of Absence

When a student feels mentally and physically prepared to resume her studies at AUW, she must take the following steps to notify AUW of her readiness to return:

1. Contact the Dean of Faculty/Director of Access Academy and the Dean of Students in writing, informing them of the student’s intentions to return. This request must be submitted well in advance of the proposed return date. For consideration of the spring term, requests must be submitted by November 1st; for the summer term, April 1st; for the fall term, June 30th. This will ensure that AUW has sufficient time to review the request and reenroll the student. If materials are received shortly after the relevant deadline, AUW will attempt to be flexible and review the student’s request to return for the desired semester. However, if there is missing information, consideration for a return may be made for the following semester rather than the semester for which the student was initially seeking to return.

2. Provide medical or psychological records from the physicians and/or mental health professionals who cared for the student while on Leave and/or a statement indicating the student’s readiness to return. The student must also sign a written consent for the release of this information to AUW.

3. Sit for an assessment interview with the relevant Dean/Director and the Dean of Students, and/or a staff member from the Health and Wellness Center.

Once a decision is reached regarding a student’s return, it will be mailed to the student in writing with information on how to register for courses and move back to campus (if the student is not a day scholar).

Confidentiality

AUW will maintain confidentiality of all the information submitted by a student in regards to a voluntary leave of absence, and all records will be kept confidential.

AUW reserves the right to notify a parent or guardian of the voluntary withdrawal if deemed appropriate under the circumstances.
Involuntary Withdrawal

The following policy only applies when a student’s observed conduct, actions, and/or statements indicate a direct threat to the student’s own health and/or safety, or a direct threat to the health and/or safety of others. It is not meant to replace disciplinary proceedings associated with violations of a university policy, as it is not a disciplinary code, policy, or process. There may be situations in which both this Involuntary Withdrawal Policy and another university policy apply.

Criteria

A student may be involuntarily withdrawn from AUW if the University determines that the student represents a direct threat to the health and safety of herself or others by (1) engaging or threatening to engage in behavior which poses a high probability of substantial harm to herself or others; or (2) engaging or threatening to engage in behavior which could cause significant property damage, would directly and substantially impede the lawful activities of others, or would interfere with the education process and the orderly operation of the University.

Procedure

When a member of the AUW community, based on a student’s conduct, actions, or statements, has reasonable cause to believe that the student meets one or more of the criteria for involuntary withdrawal, he or she should immediately file a report to the Dean of Students and the Director of Resident Faculty. If the Dean of Students and Director of Resident Faculty believe that there is substantial evidence to pursue the involuntary withdrawal, they may initiate an assessment of the student’s ability to safely participate in the University’s program.

The Dean of Students and the Director of Resident Faculty initiate this assessment by first meeting with the student to:

1. Review available information concerning the behavior and/or incidents which have caused concern,
2. Provide the student with a copy of this Involuntary Withdrawal Policy and Procedure and discuss its contents with the student,
3. Provide the student an opportunity to explain her behavior, and
4. Discuss options available to the student, including counseling, voluntary withdrawal, and evaluation for involuntary withdrawal.

If the student agrees to withdraw voluntarily from the University and waives any right to any further procedures available under this policy, the student will be given a grade of “W” for all courses, will be advised in writing of any conditions that must be satisfied prior to re-enrollment, and may be referred to appropriate mental health or other health services. The student will be responsible for paying for any expenses associated with leaving or returning to campus, though exceptions may be made on a case-by-case basis. If an exception is granted, it will be done with the understanding that the student will be responsible for the expenses associated with returning to AUW after she is reenrolled, and for leaving AUW after she completes her degree requirements.

If the student refuses to withdraw voluntarily from the University, and the Dean of Students and the Director of Resident Faculty continue to have reasonable cause to believe the student meets one or more
of the criteria for involuntary withdrawal, they may require the student to be evaluated by an appropriate mental health professional.

**Evaluation**

The Dean of Students and the Director of Resident Faculty may refer the student for a mandatory evaluation by an appropriate mental health professional or other appropriate professional. The professional may be selected by the University, so long as there is no cost to the student for the evaluation. A written copy of the involuntary referral shall be provided to the student.

The evaluation must be completed within five school days after the date the referral letter is provided to the student. Prior to the evaluation, the student will be required to sign a written authorization authorizing the exchange of relevant information among the mental health professional(s) (or other professional) and the University. Upon completion of the evaluation, copies of the evaluation report will be provided to the Dean of Students and the Director of Resident Faculty.

The professional making the evaluation shall make an individualized and objective assessment of the student’s ability to safely complete her studies at AUW, based on a reasonable professional judgment relying on the most current professional knowledge and/or the best available objective evidence. This assessment shall include a determination of the nature, duration and severity of the risk posed by the student to the health or safety of herself or others, the probability that the potentially threatening injury will actually occur, and whether reasonable modifications of policies, practices or procedures will sufficiently mitigate the risk. The professional will, with appropriate authorization, share his/her recommendation with the Dean of Students and the Director of Resident Faculty, both of whom will take this recommendation into consideration in determining whether the student should be involuntarily withdrawn from AUW. A copy of the professional’s recommendation will be provided to the student, unless, in the opinion of the professional, it would be damaging to the student to do so.

If the evaluation results in a determination that the student’s continued attendance presents no significant risk to the health or safety of the student or others, and no significant threat to property, to the lawful activities of others, or to the educational processes and orderly operations of the University, no further action shall be taken to withdraw the student from the University.

If the evaluation results in a determination that the continued attendance of the student presents a significant risk to the health or safety of the student or others, such that there is a high probability of substantial harm, or a significant threat to property, to the lawful activities of others, or to the educational processes and orderly operations of the University, the student may be involuntarily withdrawn from the University. In such an event, the student shall be informed in writing by the Dean of Students of the involuntary withdrawal, of her right to an informal hearing, of her right to appeal the decision of the hearing board, and of any conditions necessary for re-enrollment. The Dean of Students and the Director of Resident Faculty will also inform the student’s parents of the situation.

If the student does not wish to pursue an informal hearing, she will have to leave the AUW campus at the earliest possible time. The student will be responsible for paying for any expenses associated with leaving or returning to campus, though exceptions may be made on a case-by-case basis. If an exception is granted, it will be done with the understanding that the student will be responsible for the expenses associated with returning to AUW after she is reenrolled, and for leaving AUW after she completes her degree requirements.

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15 The hearing board shall consist of the student’s faculty advisor, the Dean of Faculty (or Director of Access Academy if Access Academy student), the Dean of Students, and the Director of Resident Faculty.
In most cases, a student who is involuntarily withdrawn will be given a grade of W in all courses in which she is currently enrolled.

**Informal Hearing**

A student who has been involuntarily withdrawn may request an informal hearing before a hearing board by submitting a written request to be heard within two business days from receipt of the notice of involuntary withdrawal. A hearing will be set as soon as possible. The student shall remain involuntarily suspended pending completion of the hearing.

The hearing shall be informal and non-adversarial. During the hearing, the student may present relevant information and may be advised and supported by another student or faculty member.

At the conclusion of the hearing, the hearing board shall decide whether to uphold the involuntary withdrawal or whether to re-consider, and the student shall be provided written notice of the hearing officer’s decision as soon as possible.

**Appeal to the Vice Chancellor**

The student may appeal the hearing board’s decision to the Vice Chancellor. The Vice Chancellor shall review all information presented and make a final decision as to whether or not to uphold the involuntary withdrawal.

**Emergency Suspension**

The University may take emergency action to suspend a student pending a final decision on whether the student will be involuntarily withdrawn, in situations in which:

- There is imminent danger of serious physical harm to the student or others,
- There is imminent danger of significant property damage,
- The student is unable or unwilling to meet with the Dean of Students and the Director of Resident Faculty,
- The student refuses to complete the mandatory evaluation, or
- The Dean of Students and the Director of Resident Faculty, after conferring with the Vice Chancellor, determine that other exceptional circumstances exist to warrant suspension.

In the event emergency action is taken to suspend the student on an interim basis, the student shall be given notice of the emergency suspension and an initial opportunity to address the circumstances on which the emergency suspension is based. While on emergency suspension, the student will be required to stay in the Health and Wellness Center.

**Conditions for Reenrollment**

Because this Involuntary Withdrawal Policy applies to cases in which there is a concern about the safety of the student or others, the Dean of Students and the Director of Resident Faculty may require a student who has been involuntarily withdrawn under this Policy to be reevaluated before she is readmitted in order to assure that she presents no direct threat to herself or others. Otherwise, students should follow the same procedures for reenrollment as for returning from a Voluntary Leave of Absence.
ACADEMIC RESOURCES

ACADEMIC ADVISING

All students at AUW receive academic advising support throughout their course of study. Students should work together with their advisers to plan carefully and thoughtfully their schedules and curricula. Students are required to meet formally with the Registrar and their adviser prior to course registration in any given term.

New Access Academy students are assigned an Access Academy faculty member as their adviser for their first year. In the spring, prior to registration for fall classes, Access students will be assigned a UG faculty adviser with whom she will plan her UG curriculum. This faculty member will be her adviser until she declares a major in the spring of her UG2 year. Direct entry Undergraduate students will be assigned an academic adviser from among the UG faculty immediately. Once a student has declared a major course of study she will be assigned an academic adviser in the relevant program by the Dean and/or Registrar. That faculty member will remain the student’s adviser until her graduation and will lead her through her upper-division course of studies. Should an adviser leave AUW, students will be assigned to a new adviser. Students will also meet regularly with the Registrar who will maintain an audit of the student’s progress in completion of requirements for the core, a major, minor (if applicable) and graduation.

Students may request assignment to a specific major adviser; but that adviser must approve the addition of the student to his/her advising roster. Requests for specific assignments must be made to the Dean of the faculty.

A successful advising relationship relies on both student and adviser meeting their respective responsibilities.

<table>
<thead>
<tr>
<th>STUDENT Responsibility</th>
<th>ADVISER Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Become knowledgeable about your major and its requirements.</td>
<td>Help your advisee become knowledgeable about their major and its requirements.</td>
</tr>
<tr>
<td>Make and keep an appointment with your adviser at the beginning and middle of each term.</td>
<td>Be available for appointments with your advisee at the beginning and middle of each term.</td>
</tr>
<tr>
<td>Prepare for your appointment- bring your grade sheets, assignments etc if required.</td>
<td>Help with course selection and check class scheduling. Confer with faculty teaching the advisees’ courses if required.</td>
</tr>
<tr>
<td>Ask for help when you need it, and in a timely manner.</td>
<td>Discuss any problems with your advisee and make referrals if required.</td>
</tr>
<tr>
<td>Recognize many of your problems cannot be solved without your action.</td>
<td>Assist your advisee in deciding on solutions to their problems.</td>
</tr>
<tr>
<td>Make decisions regarding your academic and career goals that are consistent with your interests, abilities and limitations.</td>
<td>Discuss career goals with your advisee, and assist in making choices at AUW that will help them achieve those goals.</td>
</tr>
<tr>
<td>Create plans to fulfill your goals, and be prepared to review your plans in the future.</td>
<td>Help your advisee create their plans; review plans and suggest alternatives if required.</td>
</tr>
<tr>
<td>Seek and take advantage of resources to enhance your education and career goals.</td>
<td>Refer your advisee to appropriate people and information on resources and opportunities.</td>
</tr>
</tbody>
</table>

Act in an ethical, responsible, and professional manner.
PEER TUTORING SERVICES

Students who are struggling with their coursework can request a peer tutor through their course instructor. The course instructor will work with the Office of Student Affair’s Work-Study Program to hire a suitable tutor.

THE WRITING CENTER

The AUW Writing Center works with all writers within the university community at any time during the writing process, providing one-on-one instruction and small-group workshops to enable students to become better writers.

Our Philosophy. We approach writing as a process, not a product and seek to make better writers, not just better writing. By improving student writing ability across the curriculum, we work to advance students’ critical thinking skills and self-sufficiency as writers.

What we can do for you. The Center is staffed by tutors who have been trained to work with writers at all levels, emphasizing second language learning skills. We work with you, not for you, and we work on so much more than just writing!

We work in many different ways:
  • Exploring the expectations of academic writing
  • Finding new ways (new words, phrases, and sentence structures) to say old things
  • Bringing about your understanding of yourself as a writer
  • Developing effective problem-solving strategies

Do plan ahead, come when you start writing or with a first draft, and bring your questions or an agenda to the conference. Don’t expect to work on too many issues at once or come at the last minute—you’ll be stressed and so will your tutor!

We do not edit or proofread papers. Instead, we aim to provide students with the proofreading skills and correct grammar that will allow them to succeed independently as writers. While we acknowledge the need for students to master the rules of written English, we believe that students learn these skills best by working on their own writing.

How to make an appointment. Appointments for individual conferences with writing tutors can be made a week in advance or the day-of by visiting our front desk.

Three Kinds of Appointments. (Actual appointments last 50 minutes or 25 minutes.)

  • Scheduled: Each UG student is allowed to schedule in advance either one 1-hour appointment or two 30-minute appointments.

  • Walk-in: UG and AA students may walk in and request an appointment at that time with an available tutor.
Weekly Reserved: UG students may establish a regularly scheduled appointment with the same tutor every week during the semester. Senior Thesis students may also request a Weekly session. Tutors will focus on aiding student’s overall writing process.

If you are more than 5 minutes late, your appointment will count as missed

If you miss an appointment without cancelling ahead of time, you will receive a warning after the second time. Your Writing Center privileges will be suspended if you do not show up for three sessions during the semester.

Weekly Workshops: We offer ongoing weekly group workshops on Academic Writing and Research, Creative Writing and Writing for Business and Communication as well as on improving Study Skills.

In-Class Presentations: Instructors may request a tailored class presentation delivered during class time on such topics as Citation Use, Group Projects, Writing Formats.

We also support faculty and staff writing needs with special workshops and individual tutoring sessions.

Resources. Along with weekly writing skills workshops, the Writing Center has handouts and other writing resources, such as learner’s dictionaries, citation guides, and writer’s handbooks, to aid students in their writing.

Hours of Operation: Saturday – Thursday: 12:30 p.m. – 7:00 p.m.

Location: 20H, Room 405
COURSES

CORE CURRICULUM

Ethical Reasoning

ETHR 1000: Introduction to Ethical Reasoning

Moral philosophy addresses fundamental questions of human life and action, such as: How does a person live well as a human being? What is the nature of human virtue, and how is virtue related to reason and emotion? What makes an action "morally good"? Are all moral standards "culturally relative"? Are any actions always morally prohibited, and if so why? This course considers these questions and others, by analyzing fundamental texts in the history of moral philosophy. In the first half of the course, we will consider ancient and medieval ethical writings. We will begin with selections from Confucius and Mencius, and also the Hebrew Bible. Next we will read Plato's dialogue Protagoras, which raises the question of whether and how virtue can be taught. We will then read Aristotle's Nicomachean Ethics, as well as a variety of texts by medieval Aristotelians, including both Islamic and Christian scholars. In the second half of the course, we will examine works by three of the most influential figures in modern philosophy: David Hume, Immanuel Kant, and John Stuart Mill.

ETHR 1002: Global Justice

This course provides an overview to the major theories and problems of global justice. It will examine Classical and contemporary views of justice with an international focus and from a variety of Asian and Western perspectives, and will deal with issues relating to human rights and nationalism, globalization, distributive justice and poverty, environmental destruction, and violence against women, children, and minorities. The beginning sections of the course will examine general theories of justice by thinkers such as Plato, John Locke, Karl Marx, and John Rawls, as well thinkers from Islamic, Confucian, and Buddhist perspectives. The remaining sections of the course will apply these theories to particular problems and issues in the modern world. Students in the course will learn to critically evaluate the ethical dimensions of global justice that underlie most contemporary debates in international politics, and will have the opportunity to develop their own views and assessments of global justice.

ETHR 1008: Ethics of Social Inquiry

What are the ethical issues that arise in our efforts to gain knowledge and understand society? This course will explore case-studies in science, social science and the arts to debate and analyze the ethical questions involved in the project of inquiry. We will also examine the different professional codes of conduct regarding inquiry in academia, journalism, the private sector, and the visual arts.

ETHR 1009: The Meaning of Life

What is the meaning of life? Is there any purpose in this life? How can I make my life meaningful? This sort of questions might be always lurking at the back of our minds; though we seldom bring them for rigorous analysis. In this course we will examine these questions; the questions themselves (asking questions like what is the meaning of "the meaning of life"?), and also what the questions looking for. With regard to what these questions looking for there are a number responses or solutions – like theism, nihilism, existentialism or Buddhism – offered by various thinkers or schools. We will also subject these responses or solutions under critical scrutiny.

ETHR 1015: International Ethics: Law, Morality and Human Rights

This course considers the issue of moral values and ethical reasoning in contemporary international affairs. It presents the concepts, theories and methods of ethical analysis and it applies them to a number of global issues (e.g. human rights, international law, foreign intervention and global justice) and case-studies (e.g. Somalia, Rwanda, Yugoslavia and Iraq). It asks if there is—and whether there should be—such a thing as international political morality.

ETHR 2200: The Role of Law in International Politics

While politics and law are deeply intertwined in contemporary global affairs, scholars and practitioners often argue that the law is not a significant restraint on international relations. This course will look at the interplay between international law and international relations by exploring the historical evolution, philosophical nature and practical function of international law in world politics and by situating it in its historical, philosophical and political contexts. It will consider the relationship between politics, philosophy and law on issues as diverse as the use of force, war crimes, human rights and the environment, among others.

Literature, Civilization Studies & the Arts

LCSA 1000: World Literature I

The idea of world literature has been around for centuries. In 1827, for example, Johann Wolfgang von Goethe, the most canonical figure in German literature, claimed that, "National literature is now a rather unmeaning term; the epoch of world literature is at hand, and everyone must strive to hasten its approach. But, while we thus value what is foreign, we must not bind ourselves to some particular thing, and regard it as a model." Keeping Goethe's ideas in mind, we will examine how what we think of as world literature has
shifted from a European (read: privileged, white, male) canon to an emerging global perspective of diversity in 'race,' ethnicity, class, gender, a/sexuality, and dis/ability. In this course, we will engage with a wide variety of texts by authors from Africa, Europe, Latin America, and New Zealand. We will use short stories, novels, plays, and films to explore and contextualize representations of places, people, and traditions that can be different from - yet sometimes also similar to - our own backgrounds. While we will learn much about the regions and cultures that the texts address, we should also keep in mind that one text cannot be representative of a whole region, country, or people. Key themes will include the canon and national identity, gender, a/sexuality, memory, ecology, authenticity, postcolonial struggles, migration, and social justice.

**LCSA 1001: World Literature II**

In this course, we will engage with a wide variety of texts by authors from Asia, the Middle East, and the Caribbean. We will use short stories, novels, and films to explore and contextualize representations of places, people, and traditions that can be different from - yet sometimes also similar to - our own backgrounds. While we will learn much about the regions and cultures that the texts address, we should also keep in mind that one text cannot be representative of a whole region, country, or people. Key themes will include the canon and national identity, gender, a/sexuality, memory, ecology, authenticity, postcolonial struggles, migration, and social justice. Students should be prepared to participate actively in discussions, give a short presentation in class, and write several papers.

**LCSA 1003: Women Writers (Asian)**

The course will explore the ways and modes of depiction and representation of women in the Western and non-Western literary traditions. Through an interdisciplinary approach the class will explore how the women assert the importance of self representation and identity formation or disintegration based on single behaviors or institutional practices and how they are produced, maintained or transformed. The pedagogy will emphasize on critical thinking and analytical writing. The first semester will cover works primarily by non-Western women writers while the second semester will focus on Western women writers.

**LCSA 1004: Women Writers II (Western)**

The course will explore the ways and modes of depiction and representation of women in the Western literary tradition. Through an interdisciplinary approach the class will explore how the women assert the importance of self representation and identity formation or disintegration based on single behaviors or institutional practices and how they are produced, maintained or transformed. The pedagogy will emphasize on critical thinking and analytical writing. The emphasis will be on women writers’ strategies of articulating female experience and the role of literature as a reflection of and a catalyst for social change. The pedagogy will emphasize on critical thinking and analytical writing.

**LCSA 1008: Introduction to Asian Religions**

This course will survey the major religious traditions of India, China, Japan, Tibet, Sri Lanka, Burma, Bangladesh, and Thailand, and will focus on the religions of Buddhism, Islam, Hinduism, Confucianism, and Taoism. We will examine the rituals, practices, and beliefs of these various Asian traditions in an inter-disciplinary manner, exploring their historical, philosophical, and cultural foundations, as well as their contemporary expressions in popular media, visual art, literature, and film. We will read the primary religious texts in these traditions and examine how they have been interpreted and expressed throughout various historical periods—both ancient and modern. We will also explore various interactions and conflicts between these traditions, and raise questions about the relationship between religion, violence, war, and peace.

**LCSA 1009: Representation of Cultures: Critical Analysis of Ethnographic Writing**

Ethnographies are traditionally monographs that examine specific social and cultural practices of one or more groups of people. Through ethnography, researchers present their analyses based on data gathered in extensive field research. In this course, we will read several ethnographies and films and explore different forms of presenting findings in cultural and social contexts. Some of the current topics of ethnography we will read include social and cultural networks of sex workers in Uganda, discussion about AIDS and development in Haiti, religion, and becoming elderly in the U.S. and India. This course is designed to help students to develop critical reading and analytical skills in reading a variety of texts and films that discuss cultures and societies.

**LCSA 1013: Acting, Voice and Movement, FA**

This course will provide theory and practice in beginning acting technique, scene study, and the development of voice and movement skills. Physical and vocal training will emphasize an awareness of the performer’s body in relations to space, and as applied in dramatic staging. Class exercises and scene work will explore gestural vocabulary and spoken language skills in order to enhance performer’s ability to speak clearly and expressively. All students will perform in a final production project based on dramatic literature of Asia. This course is not open to student who are taking Directing and Producing for Theatre (Spring 2014)

**LCSA 1101: History of South Asia**
Courses

This course will cover the history of South Asia from the prehistoric age to the present times, a region occupied by Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan and Sri Lanka. Focusing on the Indian sub-continent, it will be our purpose to explore the complex trajectory of South Asia’s historical experiences. The class will touch on a wide range of subjects as it examines physical environments and how people related to these and met their material needs through land use, technology, processing and manufacture; the exercise of political power and political assent or resistance; the nature and limits of legal, administrative and civic institutions; social categories and the ways in which society operated, especially the distribution of rights, influence and benefits; and religious and cultural patterns. This course will take into account the immense diversity in natural attributes, people, ways of life, and cultural beliefs and practices that mark this region while providing overviews.

LCSA 1102, Women in World History

This course provides both historical knowledge on women’s experiences in history and the skills required to conduct historical research. We will consider issues of exclusion from history, social histories, grand narratives, and assessing women’s status in history through women’s historiography. We will question constructions of the category of "women" that define history as universally shared experiences and discuss if specific variances such as time, class, place and race must be considered when studying women in history. What do we know about women’s experiences as recorded in history? How do we read narratives found in primary and secondary sources, through oral tradition and in visual evidence?

LCSA 1115: Beginning Mandarin

Beginning Mandarin I is the first in a series of six semester-long courses intended to help students communicate effectively using Mandarin Chinese. The course will introduce the fundamentals of the language to students without prior knowledge of Chinese with a strong focus on speaking and listening skills needed for common daily life interactions. In particular, students will learn how to have basic conversations with people they meet, talk about food, make purchases, and get around in China. The course will develop student mastery of pinyin pronunciation, basic grammar, and practical vocabulary. While learning activities will rely on pinyin, students will also be expected to learn to recognize common Chinese characters and be able to write at least 100 Chinese characters by the end of the semester. In addition, periodic cultural presentations and discussions will be held to increase students’ familiarity with China and its people.

LCSA1201, Art History, A Global Perspective

This course is designed as a thematically organized art historical survey. We will look at art history from a global perspective, exploring questions and issue raised by artists, art historians and critics in different parts of the world. Exploring Art thematically gives us the opportunity to look at a wide range of artistic expressions, from the prehistory to the contemporary era. The goal of this course is to give you the tools necessary to explore, investigate and appreciate art, whether you are looking at the Taj Mahal in India, a Mayan pyramid in Mexico, the Mona Lisa at the Louvre, Rock Art in Australia, a jade sculpture from China or a family heirloom in your own house. Although the course will more or less follow a chronological outline, the different regional artistic cultures will not be studied in details. Rather, we will focus on different themes and artistic concepts, such as art and power, are and spirituality, art for art sake and art of the everyday life, to name a few.

LCSA 1202 Introduction to Asian Art

This course is designed as an introduction to Asian art and architecture. We will investigate historical and modern Asian art from different perspectives, including traditional, religious, political and social perspectives. Together, we will explore the transformative power of Asian art, including the stylistic transformation of Islamic art in South Asia, the transformation of Buddhist art along the silk road, and the rise of Asian modern art in the post-colonial era. We will also look at different media, such as textile, block prints, paintings, wooden and stone architecture, ceramic, and ephemeral art such as henna painting and flower arrangements.

LCSA 1203: Introduction to Cultural Studies

This course is designed as an introduction to Cultural Studies. In this class, we will investigate culture and cultural experiences from different perspectives. We will explore different theoretical approaches and methodologies related to the contemporary experience and production of culture. We will question the meaning of culture and explore its power and capacity to change. We will pay particular attention to questions of identity, agency, representation, ideologies, power and globalization. We will investigate a variety of dimensions of culture, including the production, consumption and transformation of cultural objects and products, such as magazines, films, music and music-videos, artworks, newspapers and other media, etc. This class is not open to students who took ASIA2600.

LCSA 1204: Choir

Choir at AUW will entail instruction in vocal technique, theory, music reading, use of harmony and diction to form a fully blended sound. The course will include music from varied ethnic backgrounds and various languages. Throughout the semester, we will learn pieces of music that will improve upon music reading skills as well as vocal technique. Students will be offered numerous opportunities for both solo and group performances culminating in an end-
Courses

BIOL 1002: Conservation Biology

This Course will cover the following ideas resulting in an understanding of why and how biodiversity should be conserved: Ecological & Economic values; Ethical grounds; Habitat conservation; Identifying places rich in species; Areas rich in endemics; Representative habitats; Theory & Practice of Reserve design (single species approach); Establishing protected areas; Principles of Wildlife management; Ecological succession; Predicting secondary succession; Zooticdisclimax; Habitat management; Habitat measurement; Art of wildlife management; Perennial Patterns of Abundance; Stable population; Unstable population; Cyclic population; Eruptive population; Regionwide-synchronous population; Biodiversity hotspots; Megabiodiversity countries; World Heritage sites.

BIOL 1100 Biology I (with Lab)

Biology I will provide students with an understanding of the diversity of animal life at the level of biomolecules, cells and whole organisms, together with an appreciation of a range of fundamental themes in contemporary biology (including cell theory, biological systems, biodiversity, heredity and evolution). Topics will include cell structure and function, trans-membrane transport, tissue structure and function, organ systems, respiration, heredity, reproduction, digestion, excretion, evolution, biodiversity, taxonomy, experimental design.

BIOL 1101: Biology II (with Lab)

Biology II will provide students with an understanding of the diversity of animal life at the level of biomolecules, cells and whole organisms, together with an appreciation of a range of fundamental themes in contemporary biology (including cell theory, biological systems, biodiversity, heredity and evolution). Topics will include the basic structure and function of cells, cell energetics and respiration, photosynthesis, trans-membrane transport, signal transduction, intra and inter cellular transport, heredity, the structure and function of DNA, the control of gene expression, cell division, the evolution of multicellularity, tissue structure and function, organ systems, respiration, reproduction, digestion, excretion, and immune system. Students will also conduct a range of laboratory procedures relating to the organization and function of living organisms at the molecular, cellular and whole organism level. Specific experiments investigating scientific method, instrumentation, membrane transport, enzymes kinetics, respiration, mitosis & meiosis, translation, digestion, cell specialization and biotechnology will be carried out.

Prerequisite(s): Satisfactory completion of Biology I

CHEM 1100: General Chemistry I (with Lab)

Chemistry I is the first semester of a two-semester series that will cover general, inorganic chemistry topics and prepare you for further studies in scientific majors. I will also emphasize green chemistry theory and highlight chemistry in
everyday life and society. This course will consist of lectures, laboratory exercises and a weekly discussion/problem solving session. We will cover topics such as the mole, stoichiometry, the periodic table, various types of chemical reactions, phases of matter, intermolecular forces and bonding theory.

**CHEM 1101: General Chemistry II (with Lab)**

Chemistry II is the continuation of Chemistry I that will cover physical chemistry topics and will help you to prepare yourself for the scientific majors. Similar to Chemistry I, this course will also have lectures, laboratory and a weekly discussion/problem session. This course will cover topics such as thermochemistry, chemical kinetics, chemical equilibrium, acids-bases, solubility, entropy and free energy, electrochemistry and nuclear chemistry. This is a course that requires hard working, continual studying, homework and assignments in order to keep up with the material for successful completion.

Prerequisite(s): Satisfactory completion of Chemistry I

**CSCI 1101: Fundamentals of Computers (with Lab)**

This course aims to provide a brief idea about the basics of computers Systems and Computing, the role of Computers in the society. It will introduce the components of computer (hardware and software), operating system, networking and database basics. How a computer program solves the problem and the total procedure to design and implement a program will be experienced in the course. Lab sessions will focus more on network design, introducing different application programs and web programming.

**CSCI 1102: Problem Solving and Decision Making**

Efficient decision making is of utmost importance in any aspect of an individual’s life. People who are able to consistently identify the problem and gauge its importance tend to be in a better position of solving it by choosing the best option among multiple alternatives. The decisions of these people are generally imaginative, logical, solid, and defensible. In this course, students will be equipped with knowledge and tools necessary to become an imaginative, logical problem solver/decision maker. They will explore a structured way to approach and dissect problems, and learn to clarify problems in terms of objectives and issues, with a view toward possible outcomes. Finally, the students will apply their acquired knowledge to handle a relevant IT-related project as a hands-on exercise.

**ENVS 1000: Introduction to Environmental Science**

We will discuss the scope and importance of environmental science and its relationship with other branches of science. We will focus on several different aspects of the environment including: the principal components of the earth system – atmosphere, lithosphere, hydrosphere, biosphere and pedosphere; the structure and function of ecosystems; aspects of biodiversity and its conservation; renewable and non-renewable resources and their sustainable management; and topical issues e.g. carbon sequestration and global warming, pollution, natural disasters. This course does not have a lab but will include orientation tours to different industries and polluted areas and the preparation of a report on one of the visited areas.

**ENVS 1001: Water Resources and Development**

Water and water resources are important factors in the development of society. The course covers some of the essential facets in which water has combined with societal development. The course is introductory in nature and attempts to provide a basic overview of some of the disciplines such as water use and water quality that have specific applications in water resources engineering and management. The course focuses on three major parts of water resources and development. Part I deals with introduction to water resources including surface and ground water sources, basic water science, water resources development planning concepts and water resources development policy. Part II deals with water use and its associated analysis, including domestic/urban use, water supply and demand, irrigation and hydropower. Part III deals with water quality and environment including water pollution, public health and, environment and social impact assessment.

**MATH 1000: Calculus I**

Calculus- I is a foundational course; it plays an important role in the understanding of science, engineering, economics, and computer science, among other disciplines. This introductory calculus course covers differentiation and integration of functions of one variable, with applications. Topics include: Functions; Limits and Continuity; Differentiation; Application of Derivatives; Integration; Integrals using advanced techniques of integration, such as inverse substitution, partial fractions and integration by parts. After completing this course, students should have developed a clear understanding of the fundamental concepts of single variable calculus and a range of skills allowing them to work effectively with the concepts.

Prerequisite(s): Satisfactory completion of Pre-Calculus.

**MATH 1001: Calculus II**

Calculus II is a second semester calculus course for students who have previously been introduced to the basic ideas of differential and integral calculus. It is a continuation of Calculus I. Over the semester we will study First-Order and Second-Order Differential Equations, Infinite Sequence and Series, Vectors and the Geometry of Space, Partial Derivatives and Multiple Integrals. In this course you will learn how to
use calculus to understand and model real life situations such as those in business, environmental changes, population growth to name a few. As expected, real life situations are in general very complicated and are difficult to model but with the mathematics in this course we can understand some of the more basic models.

The material we take up in this course has applications in physics, chemistry, biology, environmental science, astronomy, economics, statistics, and just about everything else. We want you to leave the course not only with computational ability, but with the ability to use these notions in their natural scientific contexts, and with an appreciation of their mathematical beauty and power.

Prerequisite(s): Satisfactory completion of Calculus I.

MATH 1002: Probability and Statistics

This course aims to provide an understanding of the basic concepts in probability, conditional probability and independent events. It will also focus on the random variable, mathematical expectation, and different types of distributions, sampling theory and estimation theory. Another objective of the course is to design a statistical hypothesis about the real world problem and conduct appropriate test for drawing valid inference about the population characteristics. It is inevitable to have the knowledge of hypothesis testing for any research work. The course will provide an opportunity to learn many data analysis software like Statistical Package for Social Science (SPSS), Excel, R or MINITAB to perform simple and sophisticated analyses for large samples. This course is very effective for Economics, Biological science, Public health studies, Environmental studies, Social science, Business studies and many more.

MATH 1010: Introductory Statistics

Statistics Everywhere, Introduction to experiment design and data, Organizing Data Averages and Variation, Introduction to Probability Theory, Normal curves and Sampling distribution, Hypothesis Testing, Correlation and Regression, Chi-Square Test, F and Chi-Square Distributions, Non-parametric Statistics.

PHST 1000: Introduction to Public Health

This course promises to take you on a journey through the science and the art of public health issues, concepts and practice by examining the philosophy, purpose, functions, organization, tools, activities and results of public health. Case studies will enable you to apply your knowledge to real-world local and international public health problems in order to understand how public health strategies contribute to population health. After the course you will possess an overview of this field to help you think about and explore how you can contribute to public health’s mission for your community, nation and the world, either through a public health career or as a knowledgeable, engaged member of society.

PHYS 1100 Physics I

Physics I will cover the following concepts of dynamics: Newton’s law of motion; motion and force; work, energy, and power; linear motion of particle; two dimensional motion; waves and oscillation; momentum of particles; conservation of energy; and application centered with these in the physical world; as well as these concepts of thermodynamics: heat and work; applications of the 1st and 2nd law of thermodynamics; the zeroth law of thermodynamics; kinetics theory of gases; specific heat of gases; equi-partition of energy; mean free path; Maxwell’s distribution; reversible and irreversible process, Carnot’s theorem and cycle; and thermodynamic function.

Prerequisite(s): Satisfactory completion of Calculus I.

PHYS 1101: Physics II

Physics II is a continuation of Physics I and will cover electricity, magnetism and electromagnetic fields and forces. Electromagnetic forces quite literally dominate our everyday experience. The very tiny charge particle does not fall through the floor to the center of the earth rather it is floating on electrostatic force fields, because electromagnetic forces are so enormously strong almost 1040 times stronger than gravity.

In our everyday experience, matter is electrically neutral and our direct experience with electromagnetic phenomena is disguised by many subtleties associated with that neutrality. This is very unlike our direct experience with gravitational forces, which is straightforward and unambiguous.

Prerequisite(s): Satisfactory completion of Physics II

PHYS 1102: Descriptive Physics for Non-Scientists

An introductory course in physics for students of non-science majors. Emphasize will be given on measurement, mechanics and selected topics from heat, sound, light, electricity and magnetism as they relate to our daily lives. In this course you will learn how to apply scientific data, concepts and models to problem-solving and find solutions to applied problems using numerical, graphical and elementary algebraic techniques.

Regional Challenges

RCHA/ENVS 2000: Environmental Challenges in Asia

This course is designed to cover the environmental challenges in Asian countries. These include: heavy metal poisoning;
environmental pollution; deforestation; soil erosion waste management: concepts and theories on occurrence will be discussed. The course will enable students to elucidate and understand specific challenges, their effects, and predictions of fate.

RCHA 2001: Information and Communication Technology for Development

“Information and Communication Technology” (ICT) is being used as one of the key delivery mechanisms for development all over the world. The proliferation of the Internet, wireless communication, and the applied synergy among different forms of communication technologies have empowered the global population to ensure better lifestyles for the present and future generation. The significance of ICT in socio-economic development is even higher in the global south, where the majority of the population still lives under poverty. This course provides a broad introduction of ICT, its ever changing and region specific definitions and its impacts on the base of the pyramid population. The course will be loosely demarcated into three sections: First, a historical review of ICT, its resulting broader international cooperation to better the life of the global population, and the key “wonder” ICT options of the last 50 years (e.g. Radio, TV, Computer, Internet etc.); Second, critical analysis of the impacts of each of these developments in commercial as well as societal applications using case studies based on environment, health care, and education themes; Third, a focus on a number of socio-economic-environmental problems in the South and South East Asian region and the multiple interpretations of “ICT for Development” by various stakeholders (e.g. Donors, NGOs, Governments, Practitioners, Common People, Academia) through real life case studies, role playing, and contemporary literatures. Methods of techno-economic analysis, risk analysis, multi-criteria decision analysis, and benefit-cost analysis will be also introduced and applied to give the students a firsthand experience in applied technology policy analysis within the ICT4D domain. In this stage of the course, students will also choose a theme or problem from the region and propose a set of recommendations for solving it using ICT.

RCHA 2002: Public Health Challenges in Asia

Our health is a major contributor to our individual and national wealth, and public health can promote and protect health and prevent disease. However, public health is often systematically underfunded by many governments’ health systems in and outside of Asia. In this course you will first review the definition of public health. Then we will examine several key public health issues in South and Southeast Asia to understand how well the region’s public health systems and interventions are meeting their health challenges. Finally, through examining mostly Asian case studies and conducting a class project, you will be challenged to relate these and otherwise explore your own country’s public health system and determine how to further develop and strengthen it to improve the health of the population. At the end of the course, you will be able to contribute to public health’s mission for your community, nation and world, either through a career in public health or as a knowledgeable, engaged member of society.

RCHA 2003 Sociology of Family Life in Asia

We all have experience with families. Family life consumes more time, energy and emotion than any other aspect of human existence and it takes place within a wider social context. As David Cheal (2002:16) points out, sociological analysis of family life focuses on three basic questions: “Who are family members? What do families do? How are families connected to other groups?”

This course examines family life in the context of ‘Asian’ societies and diasporas through a gendered, intersectional and transnational lens. It is designed so that we critically reflect on how being a family member impacts on our own lives. The course draws on sociological and feminist theories, for example, Third World feminist and postcolonial perspectives, to understand family life and the ways gender intersects with race, ethnicity, class, sexuality, religion, nationality, age, and so on, to shape the everyday lives of family members. We take into account that family life is not the same experience for all members. The course addresses the materiality of family life (practices, social relations and institutions) as well as social constructions that represent particular ways of being in a family (discourses of masculinities and femininities, for example).

We bring a critical lens to the study of topics including gender, power and inequalities, such as the gender division of labor and domestic violence; family diversity; the families of gays and lesbians; what people do in families; intimate relationships; transnational families; and parenting and childhood. Given the history of colonization, neo-colonial relations and labor migration in ‘Asia’, the effect of migration on family life is another important theme, especially in light of globalisation and the feminization of international migration. The interrelations between families and other social institutions such as the economy, state, religion and media will also be examined.

RCHA 2005: Poverty in Asia

This course will provide an overview of poverty in Asia, looking at different indicators, themes and case studies. It will address the nature of poverty, its causes, its dynamics and the contributing factors. The course will look at how poverty has been understood, defined and measured and its implications for policies and poverty reduction strategies and initiatives. Central to the course will be the introduction of the livelihoods framework as a tool for analysis in order to better understand the processes and causes of poverty and vulnerability. We will see how capabilities and assets, as well as structural constraints and obstacles, affect the options of the poor and the outcomes of their strategies. We will see how the poor use their assets to mitigate poverty and vulnerability and what types of coping and adapting strategies and responses they adopt to face shocks, crises and so forth.
stress. The particular and distinctive characteristics of urban and rural poverty will also be explored.

RCHA 2402: Gender in Asia

This course examines gender, sex and sexuality in contemporary ‘Asia’. Our fundamental premise is that social life is gendered and gender inequalities stem from social constructions of gender rather than biology. In exploring how gender is socially constructed, represented and enacted, we challenge notions of gender as stable, dichotomous and innate, or something internalized through socialization. Ideas about femininity and masculinity shift in different contexts and are constantly redefined. We consider the ways people perform or ‘do gender’ in everyday interactions and the diversity of femininities and masculinities created out of those interactions. Drawing on a range of feminist scholarship and other literature, case studies, reports, NGO material, and media, we explore gender relations in the region through a transnational perspective and the lens of intersectionality – how gender as a system of power intersects with other power relations, such as class, race, ethnicity, sexuality, religion, nationality and age. The course addresses social relations of gender (material practices and institutions), and gender as discourse and the politics of representation (for example, social constructions of masculinities and femininities that sustain gender inequality). Topics include gender, sexuality and power; Orientalism; sexualities in ‘Asia’; feminization of labor migration; transnational marriage migration; gender, sexuality, imperialism and nationalism; gendered violence; and activism around gender and sexuality. Our framework for examining these issues is the complex interaction between globalization and localized political, economic and cultural factors.

Social Analysis

SOCA 1000: Social & Political Thought I

This course examines answers to some of the deepest questions about politics and society: Why should we have government and what would things be like without it? Is there a duty to obey government or are people sometimes justified in resisting it? What form should government take and in particular, is democracy the best form of government? How much freedoms and rights should people have and is society justified in restricting freedom? What form of property system should society have and should society try to redistribute income and wealth? We will also examine the contribution that feminism has made to social and political thought. Among the thinkers whose work will be covered are Plato, Aristotle, Hobbes, Locke, Rousseau, and Mill. Thinkers in non-western traditions will also be covered.

SOCA 1001: Social and Political Thought II

This course will examine how international and domestic political interests have shaped and been shaped by women’s rights movements in contexts such as Morocco, Tunisia, Egypt, Turkey, Iran, Pakistan, India, Bangladesh, and Malaysia. In particular, it will consider the impact of state-building, electoral politics, the rise of socially conservative actors, and the War on Terror on the conceptualization and instrumentalization of women’s rights. We will explore how women’s rights activists have contended with unexpected adversaries and unlikely allies: we will encounter secularists who betrayed feminists, Islamists who championed feminism, and feminists who boycotted US government assistance.

SOCA 1003: Social Inquiry

This course will introduce students to: 1) The methodological perspectives and tools by which we manage and overcome the challenges of researching human beings and their institutions, as well as the ethical questions we have to consider in conducting social science inquiry. 2) The process by which research into socioeconomic and political life is designed, developed and conducted. 3) The qualitative and quantitative tools we have to analyze data collected from observing socioeconomic and political life. Upon completion of this course, students should be better able to critically evaluate the research they encounter in other social science coursework and in the mass media. Moreover, they will also be able to apply the social scientific method to their own research questions and design their own social research.

SOCA 1004: Mind & Behavior

This course will provide you with a broad introduction to the field of psychology, one of the social sciences. Among the topics we will cover are: gathering data on the causes and correlates of behavior, key figures in psychology and their theories, examples of research findings from the major subareas of the field, and using psychological knowledge to improve the quality of our lives. This survey of psychology will acquaint you with the major concepts and terminology of the discipline and give you a better understanding of self and others. We’ll use a combination of lectures, video clips, group activity and discussion. I hope it will make you want to learn more about psychology and have you asking “What’s the evidence?” each time you encounter statements about behavior. Last of all, it should be fun and interesting!
conceptual foci are individual, groups and communities, as well as institutions and the relations among them. By the end of the course, you will have concepts, tools and questions that will help you understand yourself and human societies better and what it means to be a part of complex and diverse world.

SOCA 1101 Introduction to Gender Studies (GS)

This course is an introduction to gender studies and will examine various texts and ideas from literature, philosophy, religious studies, queer theory, history, and film. The course is both interdisciplinary and cross-cultural, and will study the influence of gender in Asia and across the globe, and from various disciplinary perspectives. We will examine important issue regarding gender and sexuality, including the social construction of gender and identity, the intersections between gender, race, sex, class, and nationality, and various forms of resistance from lesbian, gay, transgender and queer communities from around the world.

SOCA 1200 Islam, Politics, and Women's Rights

This course will examine how international and domestic political interests have shaped and been shaped by women's rights movements in contexts such as Morocco, Tunisia, Egypt, Jordan, Turkey, Iran, Pakistan, Bangladesh, and Malaysia. In particular, it will consider the impact of state-building, electoral politics, the rise of socially conservative actors, and the War on Terror on the conceptualization and instrumentalization of women's rights. We will also explore how women's rights activists have contended with unexpected adversaries and unlikely allies: we will encounter secularists who betrayed feminists, Islamists who championed feminism, and feminists who boycotted US government assistance. Students who have taken SOCA 1001: Politics of Women's Rights may not take this course.

SOCA2000: One Health

A new approach to understanding and solving emerging infectious disease, known as One Health, involves interdisciplinary teams of public health experts, environmental scientists, biologists, veterinarians, economists and social scientists. Using case studies, class discussions, and on-line blogs, we will investigate the contribution of communities, NGOs, government agencies, professionals and researchers to mitigating emerging disease including the social, economic, climatic and cultural drivers of disease; food security and safety; zoonoses and emerging infectious diseases; diseases resulting from environmental contaminants; and problem solving frameworks. We will focus on the role of society in the emergence, transmission and management of infectious disease. Students will work in teams to design a solution to a current problem in the region using a One Health framework, and present their strategy to an international audience of One Health professionals. This course will develop your skills in leadership, team work, problem solving, critical thinking, project design, verbal communication, and understanding primary literature. One Health will also help you understand how the knowledge and skills developed during studies in your major at AUW can contribute to sustaining the future of people, biodiversity, and the environment in innovative ways.

Writing and Rhetoric Seminars

WSEM 1004 Mass-hysteria, conspiracy theories, and cults

History has demonstrated again and again that humankind has an alarming propensity to be swept up in bizarre crazes, to blindly follow deranged leaders, and to ignore clear, logical evidence in believing outlandish conspiracy stories. The United States has seen the Salem witch trials, there was a time when the citizenry was gripped by a tremendous fear that the government was being secretly infiltrated by Communist spies, for about half a decade there was a widespread belief that day care owners and workers were engaging in something called ritual Satanic abuse with the children under their care – despite there being absolutely no physical evidence. These days, Americans are gripped by a deep fear of terror. Tens of millions of Americans believe the current president is or may be the anti-Christ (a demon). Probably hundreds of millions of people around the world don’t believe the US landed men on the moon. The United States has also bred some truly deranged religious cults, probably no more so than the People’s Temple, a cult that had built an agricultural commune in the South American nation of Guyana. In 1978, 919 members of the cult committed suicide at the instruction of its leader, Jim Jones.

The examples above are all from the United States, but such behavior can be seen in cultures around the world. This course will look at these phenomena from various perspectives and try to come to some understanding of how it is possible that what most rational people consider to be truly irrational beliefs can become so widespread.

WSEM 1018: Banned Books

In 1993, Bengali writer Taslima Nasrin’s novel Lajjacobecame a national bestseller. Almost immediately, the book was banned in Bangladesh under a law against “inflammatory statements” due to its criticism of anti-Hindu riots. The author fled the country following threats on her life and remains in exile in Europe and India to this day. In 2012, the headmaster of Bengali college was arrested for having the novel on the school’s library shelves and faces three years in jail if prosecuted. And yet, the Nasrin case is just one recent local example of a worldwide practice. In the U.S. in 1957, an “obscenity trial” was brought against the publisher of American Poet Allen Ginsberg’s poem Howl for its many references to illicit drugs and sexual practices. Perhaps most famously, Salman Rushdie’s award-winning 1988 novel The Satanic Verses caused a firestorm of international debate for
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WSEM 1029: Bioethics

Recent advances in medical technology have made it possible to do many things never before possible in our quest to perfect the human body. One long-standing ethical problem has been that our social values and practices rarely change quickly enough to keep up with the pace of technological advances. Scholars in the biological sciences often approach new research projects with a question of “Can we?”, while ethicists believe we should also be asking the question “Should we?” In this course, we will explore specific cases in which new medical technologies have met with ethical dilemmas. Should parents be allowed to use genetic therapy to choose the characteristics they prefer in their unborn children? If a disability such as deafness could be “cured” with technology, should we use that technology on children or adults? Should doctors be allowed to extend the life of a patient who wishes to die? In debating these questions, students will examine the arguments of academics writing across several disciplines – biology, ethics, medicine, disability rights – as well as writings from people whose bodies are at the center of these debates.

WSEM 1030: Women and Autoethnography

Our stories, our world. Autobiographical writing, whether for ourselves in private journals or for a public audience, is a genre that allows for self-discovery and the fashioning of our own identities. Autoethnography goes a step further, allowing the writer to examine their own life within the context of the larger world they inhabit. Famed autoethnographer Carolyn Ellis claims that it connects “the autobiographical and the personal to the cultural, social, and political.” In this course, we will read through several shorter selections of women who have written autoethnographical accounts and one longer work. We will also read academic articles across several disciplines such as history, sociology, and anthropology, to learn the analytic tools most commonly used in ethnographic writing. Students will write three essays in which they will examine and interpret their place in society and history. As a second-semester writing course, students will build on their understanding of academic argumentation and learn to do more advanced work in using evidence, implementing research into their writing, and qualifying their argument.

WSEM 1031 Writing – Exploring the Scientific Method

How do we decide what is objectively “true”? For academics, a fundamental belief is that scientific inquiry is the best way to investigate the world before we come to any conclusions. But why? Under what conditions is the scientific method most productive and when is it most fallible? What are the limitations of using empirical evidence and rationality to order and make sense of the world around us?

In this course, we will seek to answer these questions and to examine debates on how science has been thought about, used, and misused throughout history and in the contemporary world. We will read what is argued by authors across the disciplines – physics, medicine, history, and philosophy to name a few – to arrive at our own conclusions about the limits and the potentials of science.

Students will write three essays in which they will examine debates about the scientific process and put forward their own arguments on the topic. As a first-semester UG1 writing course, emphasis is placed on continuing work done in Access Academy writing courses, with a focus on the fundamentals of academic argumentation (constructing claims and supporting them with evidence) and writing as a process. In keeping with the mission of the AUW writing program, students will also learn and implement the ethical standards expected of academic writers.

WSEM 1034 Science and Culture

This course will look at the impact various sciences have had on the way we conceive of our “selves”, our minds, and our behaviors. Physiognomy and phrenology were in times past thought to be key to understanding human behavior. Today, evolutionary psychologists, sociobiologists and behavioral economists offer some unique and controversial explanations for our behavior. Neurobiologists, on the other hand, consider behavior to be largely the result of biological properties of the brain that are beyond our control and, for now at least, our full understanding. How do these ideas, many of which enter the popular imagination through mass media, affect culture? Do they? How have these affects changed over time?

In this course, students will read scientific narratives written over the years the last two centuries and examine how their ideas, particularly as they relate to human behavior, alter (if they do at all) the way people understand themselves.

WSEM1035 Histories of the Human Body

“If anything is sacred, the human body is sacred.” – Walt Whitman

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Whether through biology, philosophy, medicine, anthropology, or art, our understandings of our place in the universe and our definitions of who we are have often relied on the meanings we attach to our bodies. In this course, we will examine interdisciplinary readings from the sciences, the social sciences, and the arts to explore the natural history and the cultural histories of the human body.

Students will write three essays in which they will examine issues of embodiment, culture, health, and power to formulate their own written arguments. As a second-semester UG1 writing course, emphasis is placed on continuing work done in Access Academy and the first semester of UG1 writing, with an added focus on formulating a methodology, collecting field work, and integrating evidence into independently researched academic arguments. In keeping with the mission of the AUW writing program, students will also learn and implement the ethical standards expected of academic writers.

**WSEM1036: Indigeneity and Representation**

The legacy of colonialism, whether by European or dominant local powers, can still be felt throughout the South and Southeast Asian region, and this legacy is intertwined with the ways indigenous people have been represented throughout history. In this course, we will examine how colonialism has affected indigenous cultures and how those same cultures have navigated through processes of identity formation, decolonization, and representation. Students will read texts by historians, political scientists, and experts in international development, but a primary means of study will be to read and hear accounts from people living within indigenous cultures themselves.

Students will write three essays in which they will examine their own arguments about the impacts of colonialism and contemporary global and regional issues that matter to indigenous communities. As a second-semester UG1 writing course, emphasis is placed on continuing work done in Access Academy and the first semester of UG1 writing, with an added focus on formulating a methodology, collecting field work, and integrating evidence into independently researched academic arguments. In keeping with the mission of the AUW writing program, students will also learn and implement the ethical standards expected of academic writers.

**LISTINGS FOR THE MAJORS**

**Asian Studies**

**ASIA 3002: Globalization and Culture: An Asian Perspective**

This course takes an interdisciplinary approach to Globalization and Culture. Globalization and Culture are two terms which are difficult to explain on their own, they become very complex, yet they also become exceptionally relevant to our daily lives when we explore them together.

Therefore, this class will explore the cultural dimensions of globalization in our everyday lives, with a particular focus on Asia. We will look at different actors on the global stage of Culture, including, but not limited to the tourist, the migrant worker, the film actor, the signer, the politician, the art critic, to name only a few. We will explore how global flows transform cultural experiences at the local level and therefore how they affect local identities.

**ASIA 3003: Gender Identities in South Asian Film**

In this upper-level course, we will engage with a wide variety of films and documentaries by film makers from South Asian countries (Bangladesh, India, Nepal, Pakistan). We will use these films and documentaries to explore and contextualize representations of gender-related questions. We will pay particular attention to how the films and documentaries are embedded in contemporary discourses about gender and sexuality as well as to how issues of gender, sexuality, ‘race,’ and class intersect.

In our exploration of the films and their topics, we will also consult theoretical articles that develop a framework of South Asian film as a contemporary medium that can inspire and bring about social changes in societies with regards to gender. Students should be prepared to participate actively in discussions, give a short presentation in class, and write several papers. The movies will be screened during weekly movie screenings which are considered part of this class and thus compulsory to attend for students taking this class.

**Films and Documentaries**

Shabnam Mousi, My Brother Nikhil, Fire, heroine, My Name is Khan, Mr. Perfect, MuktiGaan, Laal Tip, Pleasure Boy Komola, Saving Face, Kathmandu

**ASIA 3004: Gender and Sexuality in Asia**

This course examines gender, sex and sexuality in contemporary ‘Asia’. Our fundamental premise is that social life is gendered and gender inequalities stem from social constructions of gender rather than biology. In exploring how gender is socially constructed, represented and enacted, we challenge notions of gender as stable, dichotomous and innate, or something internalized through socialization. Ideas about femininity and masculinity shift in different contexts and are constantly redefined. We consider the ways people perform or ‘do gender’ in everyday interactions and the diversity of femininities and masculinities created out of those interactions. Drawing on a range of feminist scholarship and other literature, case studies, reports, NGO material, and media, we explore gender relations in the region through a transnational perspective and the lens of intersectionality – how gender as a system of power intersects with other power relations, such as class, race, ethnicity, sexuality, religion, nationality and age. The course addresses social relations of gender (material practices and institutions), and gender as discourse and the politics of representation (for example, social constructions of masculinities and femininities that sustain gender inequality). Topics include gender, sexuality
and power; Orientalism; sexualities in ‘Asia’; feminization of labor migration; transnational marriage migration; gender, sexuality, imperialism and nationalism; gendered violence; and activism around gender and sexuality. Our framework for examining these issues is the complex interaction between globalization and localized political, economic and cultural factors.

**ASIA 3005: South Asian Literature**

Significant writers from the 19th and 20th centuries will be studied to establish the Asian literary tradition in the developing world. The course will explore the continuity and change in society and culture depicted in the works. The course will also focus on three major literary theories, Orientalism, Subaltern Studies and Gender and Sexuality. Asian Scholars have been critiqued for succumbing to the image created by the West—Orientalism. And we will trace how Asia writes back. We will also examine the texts where the gendered subaltern has been represented. Gender and Sexuality will be the third theory we will discuss through prescribed readings and see how gender and sexuality is not in fact a theory and/or practice imposed by the West.

**ASIA 3008: Women, Gender and Globalization**

This interdisciplinary course explores current issues and debates relating to gender and globalization. As with other progressive activists and thinkers, feminists are increasingly interested in the implications of global connections and inequalities. Feminist contributions to understanding globalization have gone beyond abstract entities, like governments or markets, focusing on concrete impacts on the everyday lives and experiences women-workers, on images of women and femininity, on the environment. In this course, we will examine globalization as it unfolds in a range of geographical contexts (with a focus on South and South East Asia), and from a variety of perspectives. We will explore a range of questions: What is globalization? What does a focus on “women” bring expose when studying globalization? What does a “gender perspective” bring to light? How do globalization processes shape what it means to be a woman or man in different contexts? What are the gendered effects of these processes, and how do they intersect with categories like race and class? What challenges exist for those advocating women’s rights across borders? We begin by establishing working definitions of globalization and some of the primary ways in which gender (and other categories) relate to globalization processes. We will explore the gendered effects of globalization across several key areas: international politics and war, economic globalization, domestic labor in a transnational perspective, sex and love, media and images, and local struggles and transnational alliances. In this interdisciplinary course, we will develop our “gender lens.” This lens provides will us with a useful tool for working across conventional borders to address certain complex problems or questions. We will use our gender lens to bring into focus the many, interconnected factors that shape women’s lives.

**ASIA 3010: Asian Art History**

In this class, we will investigate historical, modern and contemporary productions and transformations of art and architecture from an Asian perspective. Rather than to look at regional iconographic and stylistic specificities, we will look at the transformative power of Asian art, focusing on popular, religious and political movements in relation to art production and reception. We will investigate questions of hybridities, modernities and contemporaneities in Asian art and architecture. We will also investigate the current issues and problems art historians, artists and curators are facing in Asia, such as the protection and restoration of cultural heritage, the questioning of museum ‘space,’ the multiplication of Asian biennales and triennials, as well as the more recent division of ‘arts’ and ‘crafts’ in contemporary Asian art.

**ASIA 3011: Asian Art History: Pre Modern To Modern Era.**

This course is designed as an overview of historical Asian art from pre-history to the early modern era. The political, social, philosophical and religious principles underlying the architecture and the art, including painting, sculpture and ritual of different geographical regions will be examined. Emphasis will be on learning to formulate ideas and develop writing skills adequate to Asian art history.

**AS 3013, Gender and Visual Culture in Asia (AS, FA, GS)**

Visual Culture investigates how meaning is visually produced, coded and received in different cultural regions, periods and contexts, such as public art, museums, advertisement, television, political posters, etc. We will examine how Asia, Women, and Asian Women in particular have been imagined and represented in the past and how they are still represented today. In this class students will develop their critical and analytical skills and understandings of Visual Culture in relation to Gender and what is commonly referred to as ‘Asia’. Topics to be explored in this course include popular visual culture, the modern and contemporary art museums, the tourist industry, the music industry, and the political imagining.

**AS 3100 Directing and Producing for Theatre**

Students will be introduced to basic directorial skills including communication with actors, designers and technical crew and will utilize script analysis and staging techniques to direct and produce a theater event. Students will develop technical theater skills through familiarity with stage craft of lighting, set and costume design. Stage management and producing skills will be emphasized in all phases of the preproduction, rehearsal, performance process. The final production will be based on dramatic
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literature of Asia. This course is not open to student who are taking LCSA 1013, Acting, Voice and Movement (Spring 2014)

ASIA / PPE 3201: Civil Society and Social Movements

What do we mean by civil society and why do we think it is important? What is the role of civil society in making a society stronger? What are the “uncivil” dimensions of civil society? In this course we will look at the dimensions of civic associations that can help to mediate conflict and build trust or exacerbate conflict and increase the separateness between communities. Conceptualizing social movements as an important kind of social action in the realm of civil society, we will then examine various cases of social movements in Asia to develop a better understanding of what is a social movement, how it is built and sustained, and what are its outcomes, at both local and global levels.

ASIA / PPE 3203: Politics in South Asia

This course provides an introduction to the politics of India, Pakistan, Bangladesh, Sri Lanka, and Nepal. The first part of the course constitutes a brief survey of the political histories of each country. The second part explores the following topics and invites comparison among the different countries: Caste, Class, and Ethnicity; Communalism, State Structures, and Civil Society; Political Movements, Insurrections, and Revolution; Local Structures of Power; Culture, Religion, and Gender; The Political Economy of Development; and Parties & Elections.

AS 3205 Political Identities in ASIA

How do identities become politicized? How are identities constructed to impact on power? Who controls the meaning of a given identity in society? How do we understand and analyze the “us” vs. “them” identity conflicts in our societies? This course will draw on theories from sociology, political science, anthropology and economics to explore these questions from a comparative perspective in both Asia and elsewhere. We will utilize readings, projects, discussions and films to delve not only into the politics of identity regarding nation, class and gender, but also lifestyles and differing visions of the good society.

ASIA 3210: Migration

This course examines migration in the context of ‘Asian’ societies and diasporas through a gendered, intersectional, transnational and human rights perspective. It is designed so that we critically reflect on how migration impacts on our own lives. Drawing on academic literature, case studies, reports, migrant advocacy networks, media and other material, we explore the various ways migration and diasporas are gendered and how gender intersects with race, ethnicity, class, sexuality, religion, nationality, age, and so on, to shape migratory processes and experiences. The course addresses the social, economic and political relations of migration (material practices and institutions that motivate and sustain migration) as well as representation and identity (social constructions of masculinities and femininities, such as gendered, racist and classist ideologies that shape international demand for migrant female domestic workers). We bring a critical lens to the study of topics including labour migration and its feminization; forced migration – refugees and trafficking; transnational migration – transnational families and marriage migration; migration and human rights; gendered violence and social justice; migration and development; transnational politics; and the relationship between migration and digital technologies. Our exploration of transnational intimacies in the form of marriage migration and so called ‘mail order brides’ will provide better understanding of how people engage in emotional and sexual intimacy cross-culturally. .

ASIA/PPE 3219: Asian Philosophies

This course is designed to provide both a historical understanding of the ancient philosophies of India, China, Hawaii and the Pacific Islands and a consideration of core ideas generated from these philosophies as evidenced in ancient and modern text, religious practices and socio-political institutions. Students will use a comparative approach allowing for a thematic consideration of such questions as the purpose of the material world, the role of the mind, and how knowledge is defined in each philosophy.

ASIA 3301: East and West: A Comparative History

This course examines the history of the East and the West comparatively and prepares students to understand each of the societies in a comparative context. We will read extensively the classical works on historical trajectories of the East and the West. Students in this course will be familiarized with important historical and social theories and research methods. Some of the important questions we explore in this course include: why did the West succeed in industrialization by the early 19th century but the East did not? How did the West rise in world history? How did different variables, such as geographical locations, natural
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ASIA 3403: Comparative Literatures

In this course, we will engage with a wide variety of texts by authors from Asian countries such as Bangladesh, Vietnam, Japan, India, Korea, China, Sri Lanka, Burma/Myanmar, Pakistan, and Thailand. We will use short stories, novels, speeches, letters, and films to explore and contextualize representations of gender-related questions, political controversies, social justice issues, and immigration policies. We will pay particular attention to how the texts might speak to one another with regard to these and other topics. In our exploration of the connections between the various texts and topics, we will also consult theoretical articles that develop a framework of 'comparative literature' as an interdisciplinary field that goes beyond national boundaries and similar approaches such as 'world literature' or 'transnational literature.'

ASIA 3404: Asian Dramatic Culture

The course will chart the development of Asian Drama, evoking myths and socio-cultural traditions, major trends in dramatic writings, and theatrical conventions, through representative works. The class will also analyze philosophical ideas and performance theories as they relate to a variety of imaginative forms. The second semester will be a comparative study of Asian and Western drama and the variety of other dramatic forms.

ASIA 3406: Consumption Culture and Politics in Asia

This course explores how diverse cultural, economic, and social values are intertwined with consumption and spending practices. We will explore classic and contemporary theories about consumption and spending as well as diverse cases in Asian countries. Some of the topics we explore include fair trade movements, ethical spending, as well as the effect of advertisement.

ASIA 3407: Socially Engaged Buddhism

This course will explore traditional and contemporary Buddhist views on the relationship between Buddhist wisdom and social justice, and will examine how the ideals of Buddhist leadership and social justice are practiced by contemporary Buddhists in Asia and across the globe. The first sections of the class will focus on an in-depth textual analysis of Buddhist doctrine and the ideas of leadership, justice and morality in early Buddhism, and will analyze the nature of ethics, wisdom, and leadership in classical Buddhist texts. The latter sections of the course will examine contemporary movements of "Socially Engaged Buddhism," which emphasize the social and political nature of the historical Buddha’s teachings and apply those teachings to issues of poverty, globalization, environmental destruction, war, and sex-trafficking. Along with studying traditional Buddhist texts, we will also read contemporary Buddhist thinkers such as ThichNhatHanh, SuuKyi, the Dalai Lama, Ambedkar, SulakSivaraksa, Dhammanana, as well other American and Western Buddhist thinkers.

ASIA 3408: Qualitative Research Methods for Asian Studies

This is a senior level course for students in Asian Studies. It is also appropriate for any students interested in developing their knowledge and skills in qualitative research methods and the ethics and politics of research. The course explores a range of approaches and practical techniques that will assist students in designing, conducting and writing-up their own qualitative research. We examine the historical, philosophical, theoretical and epistemological foundations of qualitative inquiry, and the role of sociological and anthropological research at the vanguard of colonization in ‘Asia’. Ethical and political considerations inform every aspect of research involving humans and are, thus, a central concern in the course. Cultural and social awareness are pivotal to the design of our research projects and our ethical conduct as researchers. We address diversity and the ways gender, class, race, ethnicity, sexuality, religion and age impact on research processes and how research affects people and communities, particularly in the ‘Asian’ region. Case studies provide concrete examples of the application of various research methods while seminar readings and discussions on research methods contribute to the formulation of a research project to be conducted during the semester. Key topics include qualitative data collection, interpretation and analysis, bias and validity, ethical issues and the politics of research, including relationships with participants, and self-reflexivity.

ASIA / CSCI 3410: New Media

This course offers a unique blend of communication and development studies, policy analysis, and technology based innovation research. New Media is a global phenomenon, emerged in late 20th century, which symbolizes the near omnipresence of on-demand media content across the world. New Media encompasses online social networking, voice and data based communications, and digital audio-visual contents. It works as a catalyst of wide scale media convergence in every sphere of human society. This course looks into history of New Media, its place in global communication anthology, its present socio-economic impacts on developed as well as developing countries, and the participatory and “democratic” nature of its information dissemination process. Major issues related to Freedom of Expression, Privacy, Social Mobilization, Empowerment, Right to Information and the possible roles of New Media on
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defining those will also be discussed, based on contemporary case studies (e.g. Arab Spring, London Riot, WikiLeaks, Facebook, 4G Network, etc.). Finally, this course focuses on the key challenges and opportunities of New Media in the coming years, especially from the Global South's perspective.

ASIA / PSYC 3420: Cultural Psychology

This course will explore how culture influences human thoughts, feelings, and behaviors. In contrast to the view that psychological processes are essentially the same everywhere, cultural psychologists examine how psychological processes are inextricably linked to specific social, cultural, and historical contexts. Through discussions, readings, and activities, students can expect to develop a broader, global perception of contemporary psychology and a useful set of critical-thinking tools with which to analyze and evaluate psychology.

ASIA 3500: Religion & Violence in Asia

This course will explore the intimate connections between religion and violence in Asia. While the major Asian religious traditions often promote non-violence as an important virtue, they are also increasingly tied to cultural and international conflicts, war, and various forms of oppression. This course will examine the scriptural justifications for violence in traditions such as Islam, Hinduism, Sikhism, and Buddhism, and will focus on different conceptions of mystics and martyrs, saints and sinners, and sacred rites and holy wars. We will study various historical and contemporary conflicts in which religion plays a central role, and will also examine important religious oppositions to violence and war in countries such as India, Burma, Thailand, Cambodia, and Tibet. Are rich countries to blame for global poverty? Can torture ever be justified? When is it permissible for one area of a country to secede and set up its own country? Is there a conflict between respect for culture and the struggle for women’s liberation? Can humanitarian intervention be distinguished from external aggression? How should the costs of climate change be distributed? Are human rights really universal? Does aid work? This course will address all these questions and more. It will cover a range of important topics in international politics including war, poverty, inequality, human rights and environmental degradation. Students will be asked to consider the central ethical disputes regarding each of these problems and begin to formulate their own view on what can and should be done.

ASIA 3600: Beginning Mandarin I

Beginning Mandarin I is the first in a series of four semester-long courses intended to help students communicate effectively using Mandarin Chinese. The course will introduce the fundamentals of the language to students without prior knowledge of Chinese with a strong focus on speaking and listening skills needed for common daily life interactions. In particular, students will learn how to have basic conversations with people they meet, talk about food, make purchases, and get around in China. The course will develop student mastery of pinyin pronunciation, basic grammar, and practical vocabulary. While learning activities will rely on pinyin, students will also be expected to learn to recognize and write a small number of common Chinese characters. In addition, periodic cultural presentations and discussions will be held to increase students’ familiarity with China and its people.

ASIA 3601: Beginning Mandarin II

This is the second in a series of six semester-long courses intended to help second language learners communicate effectively using Mandarin. This course will continue to strengthen your grasp of fundamentals such as pronunciation and grammar, while introducing vocabulary and structures necessary for engaging in increasingly complex social interactions. More specifically, the focus will be on the speaking and listening skills needed for common activities like shopping for clothes, ordering food in a Chinese restaurant, renting an apartment, asking for help and traveling. In addition, this semester will introduce you more formally to Chinese characters and will have a greater emphasis on recognizing and writing Chinese. This is necessary to insure a smooth transition to the Intermediate level of Chinese study. Finally, periodic cultural presentations and discussions will continue to be held to increase your familiarity with China and its people.

ASIA 3602: Intermediate Mandarin I

Intermediate Mandarin I is the third in a series of six semester-long courses teaching students how to communicate effectively using Mandarin Chinese. Students who enroll in this course should already have mastered the basic pronunciation, grammar, and vocabulary needed for common daily life interactions. This course will introduce vocabulary and grammar suitable for increasingly complex social interactions, such as talking about health problems and taking part in job interviews. In addition to conversational dialogs, in class activities will increasingly expect students to participate in discussions, tell stories and jokes, and present their own opinions and ideas. Outside of class, students will be responsible for looking up information in Chinese in order to write essays and give class presentations, reading level-appropriate news articles, short stories and novels, and meeting with the instructor to discuss their readings. Furthermore, this course will expect students to make extensive use of 汉字 (Chinese characters) for reading and writing, rather than relying on pinyin. A realistic goal is that students will be able to write about 500 Chinese characters by the end of the course.

ASIA 3603: Intermediate Mandarin II

Intermediate Mandarin II is the fourth in a series of six semester-long courses intended to help second language
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learners communicate effectively using Mandarin Chinese. To enroll in this course you must have already mastered the pronunciation, grammar, and vocabulary needed for daily social interactions. You should also feel confident to read and write most common 汉字. This course will expand your knowledge of vocabulary and grammar suitable for more complex interactions, such as opening a bank account, participating in a wedding, and handling emergencies. In class activities will increasingly expect you to take part in discussions, retell stories and jokes, explore Chinese culture such as Spring Festival and Beijing Opera, and present your own opinions and ideas. In terms of writing, you will need to continue your daily writing practice in order to further develop your ability to communicate freely about your own life and experiences. You will also be asked to read a greater variety of texts with more in-depth stories, and then express your own reaction to the stories in both written and oral form.

ASIA 3604: Advanced Mandarin

In Advanced Mandarin I students will develop their ability to interact socially and occupationally in Chinese. They will increasingly be able to tailor their speech and writing to match a given context, and will be able to participate in increasingly formal and extended conversations. The course will consist of readings and discussions related to current topics including population, housing, education, university graduates’ employment opportunities, marriage, and women’s status in the family. In speaking situations, students will be asked to practice expressing complete arguments without the benefit of advance preparation. The length and complexity of reading assignments will approach the level read by the general public in China. Writing assignments will ask students to research topics in Chinese and incorporate what they find into their arguments.

ASIA / PPE 3701: Gender and International Development

After many decades to promote development around the world, why does so much poverty persist? What are some of the causes of inequality, and how do they relate to economic transformations, political reforms, and development interventions? Why do various development policies often have different consequences for men and women? The course provides ample opportunities to explore these issues. We begin with an introduction to the history of development itself, its underlying assumptions and its range of supporters and critics. We pose fundamental questions about how development has incorporated gender – and race, class, and other forms of difference. We consider various experiences with and meanings given to development by women and men in different contexts – as residents, aid workers, policy makers and government officials. In considering how development projects and policies are experienced in everyday life in rural and urban areas, the course asks: What are the underlying political, economic, social, and gender dynamics that make “development” an on-going problem worldwide?

ASIA 3704: Issues of Social Justice in South Asian Films

In this course, we will engage with a wide variety of films and documentaries by film makers from South Asian countries (Bangladesh, India, Nepal, Pakistan, and Sri Lanka). We will use these films and documentaries to explore and contextualize representations of gender-related questions, sexuality, political controversies, immigration policies, disability, and HIV/AIDS. We will pay particular attention to how the films and documentaries are embedded in contemporary discourse about these and other issues of social justice. In our exploration of the films and their topics, we will also consult theoretical articles that develop a framework of South Asian film as a contemporary medium that can inspire and bring about social changes in societies. Students should be prepared to participate actively in discussions, give a short presentation in class, and write several papers. The movies will be screened during weekly movie nights which are considered part of this class and thus compulsory to attend for students taking this class.

ASIA 4000: South Asian Literature

Significant writers from the 19th and 20th centuries will be studied to establish the Asian literary tradition in the developing world. The course will explore the continuity and change in society and culture depicted in the works. The course will focus on three major literary theories, Orientalism, Subaltern Studies and Gender and Sexuality. Asian Scholars have been critiqued for succumbing to the image created by the West—Orientalism. And we will trace how Asia writes back. We will also examine the texts where the gendered subaltern has been represented. Gender and Sexuality will be the third theory we will discuss through prescribed readings and see how gender and sexuality is not in fact a theory and/or practice imposed by the West.

ASIA 4001: Literatures of the South Asian Diaspora

Course Description: In this upper-level course, we will engage with a wide variety of texts by authors from the South Asian Diaspora. We will use short stories, novels, plays, and films to explore and contextualize representations of gender-related questions, political controversies, social justice issues, and immigration policies. We will pay particular attention to how the texts might speak to one another with regard to these and other topics. In our exploration of the connections between the various texts and topics, we will also consult theoretical articles that analyze the fictional texts critically and/or that reflect on the topics discussed in the fictional texts. Students should be
prepared to participate actively in discussions, give a short presentation in class, and write several papers.

**AS 4100 Philosophy and Film (ASIA/PHIL)**

This course will explore philosophical issues related to the study of film and will critically examine philosophical themes in films from across the globe. We will study classical philosophical texts and ideas in a comparative context, including Plato, Descartes, the Buddha, Nietzsche, Camus, and Confucius, and we will view films from various countries, including Korea, Tibet, Bhutan, Thailand, the U.S., and Europe. No prior knowledge of philosophy or film theory is required for this course, though an active, critical approach toward the readings, viewings, and class discussions is necessary.

**ASIA 4105: South Asian Masculinities (AS, GS)**

The course will explore what it means to be a ‘man’ in the South Asian contemporary society. We will examine how both society and men actively construct multiple ‘masculinities’ in different socio-historical contexts and at different stages of their lives with different consequences for both men and women. The course will not only explore the social construction of masculinity and maleness but will also chart their functionality within the structures of class, caste, gender, ability and sexuality. The course will interrogate how the discourses of power influence, mobilize and put into practice the functions of cultural formation in Asia at the local and regional levels.

**ASIA 4110 Contemporary South Asian Literatures in the Global Context (AS)**

In this upper-level course, we will engage with a wide variety of texts by authors from South Asian countries (Bangladesh, India, Pakistan, Sri Lanka, and Nepal). We will use short stories, novels, plays, and films to explore and contextualize representations of gender-related questions, nationalism, political controversies, and issues of social justice. In our exploration of the connections between the various texts and topics, we will also consult theoretical articles that reflect on and analyze the fictional texts critically. Students should be prepared to participate actively in class, lead a discussion, and write several papers to help them develop their academic writing skills.

**ASIA 4200, Postcolonialism and Gender (AS, GS, DS)**

This upper-level course looks at postcolonialism through a gendered lens. We will position gender as our central point of reference as we explore theories and topics within postcolonialism, which will also lead us to examine what role gender has played in the contexts of colonialism, nationalism, and globalization. In addition to our exploration of postcolonial and gender theories, we will also make ample use of fictional examples that examine the relations between gender and postcolonialism. While our focus will be on Asia, we will also look at texts from other postcolonial contexts in Africa and Latin America.

**AS4210 Gendered Violence (AS, GS)**

Gendered violence refers to violence that is directed towards a person or group on the basis of gender. It is an expression of power and control, linked with a sense of entitlement, which maintains gender inequalities. Gendered violence includes rape in war, sexual assault, domestic violence (DV) in heterosexual and same sex partnerships, sexual harassment, and trafficking. Men are the main perpetrators of violence against women (VAW) and other men. However, not all men are violent, men and boys may experience gendered violence and women have the potential to be perpetrators. Violence can occur in same sex relationships. Women and children are most at risk of abuse in their homes at the hands of their intimate male partners, ex-partners or fathers. In contrast, men are more likely to be abused in public places by male strangers, for example, because they do not conform to dominant constructions of masculinity. The term gendered violence highlights power in the exercise of violence and stresses that biological sex does not determine access to power.

**ASIA 5000: Senior Thesis in Asian Studies I**

An intensive research project undertaken with the permission of and in collaboration with a faculty member.

**ASIA 5001: Senior Thesis in Asian Studies II**

Senior Thesis in Asian Studies may be extended to 2 semesters with the permission of the supervising faculty member and the department.

**Biological Sciences**

**BIOL 1002: Conservation Biology**

This course will cover the following ideas resulting in an understanding of biodiversity: Levels of Biodiversity; How biological knowledge can predict changes in biodiversity; Factors threatening different species’ persistence; Strategies Biologists use to protect Biodiversity; Population Conservation; Landscape & Regional conservation; Restoration ecology; Sustainable development for human condition. This Course will cover the following ideas resulting in an understanding of why and how biodiversity should be conserved: Ecological & Economic values; Ethical grounds; Habitat conservation; Identifying places rich in species; Areas rich in endemics; Representative habitats; Theory & Practice of Reserve design ( single species approach); Establishing protected areas; Principles of Wildlife management; Ecological succession; Predicting secondary succession; Zooticdisclimax; Habitat management; Habitat measurement; Art of wildlife management; Perennial
Courses

Patterns of Abundance; Stable population; Unstable population; Cyclic population; Eruptive population; Regionwide-synchronous population; Biodiversity hotspots; Megabiodiversity countries; World Heritage sites.

BIOL 1100 Biology I (with Lab)

Biology I will provide students with an understanding of the diversity of animal life at the level of biomolecules, cells and whole organisms, together with an appreciation of a range of fundamental themes in contemporary biology (including cell theory, biological systems, biodiversity, heredity and evolution). Topics will include cell structure and function, trans-membrane transport, tissue structure and function, organ systems, respiration, heredity, reproduction, digestion, excretion, evolution, biodiversity, taxonomy, experimental design.

BIOL 1101: Biology II (with Lab)

Biology II will provide students with an understanding of the diversity of animal life at the level of biomolecules, cells and whole organisms, together with an appreciation of a range of fundamental themes in contemporary biology (including cell theory, biological systems, biodiversity, heredity and evolution). Topics will include the basic structure and function of cells, cell energetics and respiration, photosynthesis, trans-membrane transport, signal transduction, intra and inter cellular transport, heredity, the structure and function of DNA, the control of gene expression, cell division, the evolution of multicellularity, tissue structure and function, organ systems, respiration, reproduction, digestion, excretion, and immune system. Students will also conduct a range of laboratory procedures relating to the organization and function of living organisms at the molecular, cellular and whole organism level. Specific experiments investigating scientific method, instrumentation, membrane transport, enzymes kinetics, respiration, mitosis & meiosis, translation, digestion, cell specialization and biotechnology will be carried out.

Prerequisite(s): Satisfactory completion of Biology I

BIOL 3000: Anatomy & Physiology I (with Lab)

This is the first of a two-semester sequence of courses on human anatomy and physiology. (BIOL3001, Anatomy & Physiology II, will be offered in the Spring.) We will use a systems approach and focus on the relationship between form and function from the microscopic to gross level of organization. Topics will include basic anatomical and directional terminology, homeostasis, cell biology, histology, the integumentary, muscular and nervous systems, special senses, and the endocrine system. Anatomy & Physiology I will use a combination of lectures and practicals, including case studies, dissections, experiments and simulations, to help you achieve a detailed understanding of human functioning.

Prerequisite(s): Satisfactory completion of Biology I and Biology II, Chemistry I & Chemistry II

BIOL 3001: Anatomy and Physiology II (with Lab)

This is the second of a two-semester sequence of courses on human anatomy and physiology. We will use a systems approach and focus on the relationship between form and function from the microscopic to gross level of organization. Topics will include anatomy and physiology of the cardiovascular, respiratory, digestive, excretory and reproductive systems. Human Anatomy and Physiology II will use a combination of lectures and practicals, including case studies, dissections, experiments and simulations, to help you achieve a detailed understanding of human functioning.

Prerequisite(s): Satisfactory completion of Anatomy and Physiology I.

BIOL 3002: Biochemistry (with Lab)

Biochemistry encompasses the chemical and physical nature of biological macromolecules. We will study biochemical pathways in living organisms, with emphasis given to the synthesis and metabolism of the four major classes of macromolecules, carbohydrates, lipids, proteins and nucleic acids, and their key roles in life processes. Discussions will also include biochemistry in nutrition and its influence on eating behavior and biochemical connections with diseases. Lab sessions will cover the principles and techniques of experimental biochemistry, focusing on isolation methods and techniques for analyzing structure and function, and qualitative and quantitative studies of macromolecules within the cell.

Prerequisite(s): Satisfactory completion of Organic Chemistry.

BIOL/ENVS 3003: Ecology (with Lab)

In this course we will study the relationships among living organisms and their physical environment, population growth and regulation, interspecific interactions, community and ecosystem structure and function, and biogeography. Students should improve their ecological literacy by learning the basic facts, principles and concepts of the field of ecology, improve scientific literacy by learning how ecologists construct knowledge and improve their analytical and writing skills through analysis and interpretation of ecological data.

Prerequisite(s): Satisfactory completion of, or concurrent enrollment in, Biology II

BIOL/PHST 3005: Principles of Biostatistics

This is an introductory course of biostatistics that will acquaint the students with the basic concepts of biostatistics and its appropriate uses and common misuses in public health. The course will involve practice in the application of statistical procedures along with introduction to appropriate
Courses

Many science students dream of making an important discovery that contributes to our understanding of biological processes, solves environmental problems, or advances medical research and public health. But how do scientists develop their idea into a research project, obtain funding for their study, and then share their results with the scientific community? This professional development course will follow the pathway from idea to publication and includes topics such as finding relevant literature; developing a research proposal; applying for grants; experimental design; collection and storage of quantitative and qualitative data; field and laboratory research; data repositories, data sharing, and data confidentiality; attending conferences, patents, and publishing your results in international journals. We will use your research ideas to illustrate the different stages, and share your progress and obstacles. The Scientific Process is a 2 credit point course designed for UG3 and UG4 biological science, environmental science and public health students, and will be of particular benefit to those considering senior these or graduate school. It is a Pass/Fail course and will not contribute to your GPA, but will be listed on your transcript.

**Biol 3600: Genes and Genomics (with Lab)**

The discipline of genetics has been developing rapidly since the discovery of the famous Watson & Crick structure of DNA in 1953. Classical genetic studies have been replaced by techniques in molecular genetics, and, most recently, genomics and bioinformatics as methods to study the mechanisms of inheritance. This course will discuss genetic approaches to the study of biological function with particular focus on experimental design. The topics include: structure and function of genes, chromosomes and genomes, biological variation resulting from recombination, mutation, and selection, use of genetic methods to analyze protein function, gene regulation and inherited disease. We will also consider the social, medical and agricultural applications of genetic technologies with particular focus on their impact on countries in S. Asia in comparison with the U.S. and Europe.

**Prerequisite(s): Satisfactory completion of Biology I & Biology II, Chemistry I & Chemistry II**

**Biol 3601: Cell & Molecular Biology (with Lab)**

This course provides an in depth study of the molecular and biochemical bases for cell structure and functions. Membrane organization, solute translocation, endocytosis and exocytosis, mechanisms of signal transduction, growth control, and oncogenesis will be covered. Mechanisms of DNA replication, repair, as well as mechanisms of gene expression in both prokaryotes and eukaryotes will be discussed. Modern techniques for DNA manipulation will also be examined.

**Prerequisite(s): Satisfactory completion of Biology I & Biology II, Chemistry I & Chemistry II**

**Biol/Biol 4002: Environmental Microbiology (with Lab)**

Microorganisms are minute living beings which are too small to see by the naked eye. Individual organisms can only be seen with the help of microscope. These organisms are associated with many inconveniences, diseases, and infections such as AIDS, cholera, typhoid, pimples, and food poisoning. However, some of these microorganisms have vital contributions to our environment wellbeing. The goal of this course is to study the fundamental concepts of Microbiology. It begins by examining the various microorganisms, such as bacteria, viruses, parasites, fungi, planktons. Additionally, the importance or microorganisms in public health, disease, the environment, and industry will be explored. The course includes understanding of various microbes such as bacteria, fungi, algae, protozoa, arthropods, etc., microbial growth, processes involved such as metabolism, catabolism, etc., microbial genetics and viruses, role of microbes in health and diseases and microbial applications in addressing varieties of environmental problems. The course will include soil microbiology that will cover basic concepts and theories on microbial occurrence, distribution, and activity in soil environment. This course consist comprehensive knowledge on fundamental microbial functions and real-world issues and problems in relation to agricultural production and environmental quality. This course is outlined in such a way that it will be suitable for pre-med, biological science, environmental science, and engineering students.

**Biol 4100: Abbvie Lectures: Scientific Research with Applications in Medicine and Public Health**

Abbott scientists will present practical applications of their scientific research in pharmacology, medical science and public health. Topics include drug discovery and development, regulation of the drug industry, and control of disease; the topics complement material studied in the course Human Anatomy. Students will be assigned papers to read before a weekly teleconference, during which the research process and outcome will be discussed with the leading scientist. This is a 1-credit course, and assessment will be based on participation in group discussions.

**Prerequisite(s): concurrent enrollment in Human Anatomy and Physiology is required.**

**Biol 5000: Senior Thesis in Biology I**
Courses

An intensive research project undertaken in collaboration with a faculty member. The student will be expected to write a short proposal, conduct a literature search, design and conduct some independent research (laboratory, field, computational, or library), and present the results in oral and written (thesis) form.

BIOL 5001: Senior Thesis in Biology II

Senior Thesis in Biology may be extended to 2 semesters with the permission of the supervising faculty member and the department.

Computer Science

CSCI 1100: Global Information Society

This course is a broad introduction to the information technologies of today, their regulation and their socioeconomic impacts. The course will begin with a historical review of the modern day “Information Society”, and then will describe the development of new competitive environments. (An introduction to the relevant principles of economics and regulation will be provided as needed). Students will be introduced to the Internet, international telecommunications networks and how they are regulated nationally and internationally. A review of the World Trade Organization (WTO) and the Information and Communication Technology (ICT) and telecommunications commitments made by members will be covered. This course will also explore issues including: the socio-economic impacts of different ICT based options in daily life (urban and rural), the regulatory evolution of the telecom and ICT industries in different developing regions (mainly focusing on greater Asia), the potentials and regulatory challenges for mobile telephony and the Internet etc. Students will explore issues related to freedom of speech in the age of Internet, privacy, synergy between different high and low end technological options, the challenges for the future for both regulatory agencies and telecommunications operators/providers. Detailed case study about the telecom and ICT industry in several developing countries will enable the students to see how the principles are applied in various contexts.

CSCI 1101: Fundamentals of Computer (with Lab)

This course aims to provide a brief idea about the basics of computers Systems and Computing, the role of Computers in the society. It will introduce the components of computer (Hardware and software), operating system, networking and Database basics. How a computer program solves the problem and the total procedure to design and implement a program will be experienced in the course. Lab session will focus more on network design, introducing different application programs and web programming.

CSCI 1102: Problem Solving and Decision Making

Efficient decision making is of utmost importance in any aspect of an individual's life. People who are able to consistently identify the problem and gauge its importance tend to be in a better position of solving it by choosing the best option among multiple alternatives. The decisions of these people are generally imaginative, logical, solid, and defensible. In this course, students will be equipped with knowledge and tools necessary to become an imaginative, logical problem solver/decision maker. They will explore a structured way to approach and dissect problems, and learn to clarify problems in terms of objectives and issues, with a view toward possible outcomes. Finally, the students will apply their acquired knowledge to handle a relevant IT-related project as a hands-on exercise.

CSCI 2000: Introduction to Computing & Programming (with Lab)

This course is the fundamental course for learning a programming language. It aims to provide a brief idea about basics of computers Systems, Computer-oriented problem-solving methods and hands-on introduction to the structured programming using C programming language. High level programming language and interactive environment MATLAB® used for numerical computation, visualization, and programming will also be introduced in the laboratory session. This course includes the topics such as numbering systems, processor and memory organization, input/output devices, the basic C language syntax, variable declaration, data types, basic operators, program flow and control structures, defining and using functions, simple data structures such as array, pointers. The methodological approach to program design, implementation and debugging, with emphasis on problem-solving, will also be covered.

CSCI 3000: Computer Communications Networks

This course provides an in-depth discussion on data communications principles and technologies, different network models and layers and examines the protocols, designs, implementation, and analysis of computer networks performance. It gives a brief overview of the Internet infrastructure, inspects how it works and the shows the different network security approaches. Some topics to be covered include: Introduction to Computer Networks; Overview of Networking Models; Physical Layer; Data Link Layer; Network Layer; Transport Layer; Application Layer; Wireless and Mobile Networks; A top down Approach featuring Internet; Network Security.

CSCI/ ENVS 3001: Numerical Methods and Computer Programming

Concept of Numerical computation: - Computer Arithmetic: Floating-point representation of numbers, arithmetic operations with normalized floating-point numbers and their consequences, significant figures. Error in number
Courses


CSCI 3002 Data Structure and Algorithms

The purpose of this course is to provide the students with solid foundations in the basic concepts of programming: data structures and algorithms. The main objective of the course is to teach the students how to select and design data structures and algorithms that are appropriate for problems that they might encounter. This course is also about showing the correctness of algorithms and studying their computational complexities. This course offers the students a mixture of theoretical knowledge and practical experience. The students will be using either structured programming language “C” to solve the problems and assignments in the laboratory.

CSCI 3003: Database Management System


CSCI 3004 Java: Object Oriented Programming

This course will cover topics such as Introduction to Java Language, Introduction to standard tools to program Java, OOP concepts: Encapsulation and Inheritance, Interfacing and abstraction, Polymorphism, Benefits of OOP over procedural programming, Threads, Network connections, Database, Swing/GUI, Servlets, Introduction to design patterns, and Introduction to software engineering.

CSCI 3005: Algorithmic Design and Analysis


CSCI 3006: Discrete Mathematics

Discrete Mathematics will cover the following concepts: Logic and its applications: Propositional Logic, Predicates & Quantifiers, Rules of inference, Methods of proofs, Normal forms, Proving Programs Correct; Sets, Relations and Functions: Sets, Set operations, Relations & their properties, Functions, Sequences and summations, Ordered Sets and Lattices; Graph Theory: - Representing relations, Graphs & graph models, Euler & Hamilton path, Trees; Induction and recursion: Mathematical induction, Recursive definitions & Structural induction; Combinatorics: Basics of counting, Pigeonhole principle, Permutations and Combinations, Binomial coefficients; Recurrence Relations and Generating Functions; Algebras: Groups, Semi-groups, Rings, and Fields.

CSCI 4001: Internet and Mobile Technologies and Applications (with Lab)

Rationale: This “Computer Science Major” undergraduate course introduces today’s Internet and its functioning to the students in detail. They will acquire clear concepts of inner working of today’s Internet. The students will also be given a brief overview of wireless Internet, and various performance metrics which are crucial to investigate an Internet protocol. Moreover, they will be exposed to some Internet-oriented mobile applications from technical points of view which have become integral part of a person’s daily life (e.g., Social Media, Banking, Multimedia Apps, Gaming, etc.).

Description: Overview of Internet Architecture, Review of TCP/IP protocol stack, TCP in detail, Some TCP variants (Tahoe, Reno, SACK, etc.), Review of IP addressing, Internet Routing Algorithms (RIP, OSPF, BGP), Brief Introduction of Wireless Internet &Network Troubleshooting (basic tools like tcpcmp, iperf, etc.). The course will incorporate laboratory sessions which will mainly concentrate on understanding/creating mobile applications running on top of Internet. The chosen mobile platform will be “Android”.

Prerequisite(s): 1) Data Communication and Computer Networks, 2) Object Oriented programming

CSCI 4002: Artificial Intelligence

Artificial Intelligence is an advanced level course for the students intending major in Computer Science. The ultimate goal of Artificial Intelligence (AI) is to make a computer that can learn, plan, and solve problems autonomously. This course provides a broad introduction to artificial intelligence. Topics will include: problem solving, including search and game playing, knowledge and reasoning, including inference, planning, knowledge representation and reasoning under
uncertainty and machine learning. We will cover selected topics in Artificial Intelligence. We will study modern techniques for computers to make good (in some cases optimal) decisions that are applicable throughout an enormous range of industrial, civil, medical, financial, robotic and information systems.

CSCI 4003: Computer Architecture and Operating System (with Lab)

This course exposes the students to the fundamental of computer architecture, and aims to equip them with the know-how of a modern operating system’s working. Students will have a thorough knowledge of CPU performance metrics, processes, scheduling concepts, memory hierarchy and management, I/O, storage and file systems, data & control unit design, and pipelining. The students will also be given some brief overview of advanced topics like Parallel Computing, Distributed Systems, Lightweight OSes, Cloud Computing, the challenges inherent to OS/Computer Architecture for faster processing with the advance of hardware, etc. The course will include laboratory sessions as well for a hand-on experience with the topics covered in the lectures.

CSCI 4005: Information Systems and Software Engineering

The course will cover foundations of systems development, from a production and innovation perspective. Central concepts covered will be linear, spiral and agile approaches to software development, and techniques for bridging managerial concerns with design and construction of software. The students will acquire skills in design through modeling. Different ways to involve users in system development processes will be covered as well. The course will be delivered both through lectures and exercises.

Prerequisite(s): Satisfactory completion of Fundamentals of Computers.

CSCI 5000: Senior Thesis/ Project in Computer Science

A senior thesis/project should clearly specify the purpose of the chosen topic, and include an exhaustive literature survey on related works. This topic can either be proposed by the student herself through consultation with a professor who will eventually become her adviser/mentor, or she can choose to work on a topic assigned by a professor. The students are encouraged to compare various methodologies relevant to the chosen topic in the existing literature critically by outlining both strengths and weaknesses of each individual method. They may propose their own methodology, and discuss the findings/conclusions. Alternatively, they might choose to implement a project based on their acquired knowledge through literature survey. The students should clearly outline the scope of the thesis/project and its significance (if applicable). The students will be evaluated by her adviser/mentor through continuous assessment, and they are also required to submit a thesis/report, and make an oral presentation in front of a committee at the end of the semester.

Economics

PPE 2100: Principles of Microeconomics

This course gives you an introduction to microeconomics. We will be analyzing the fundamental concepts with an emphasis on applications of economic tools to modern day issues. This course will familiarize you with the determinants of the behavior of individuals and firms, the decisions they make given the set of choices available to them and how they respond to incentives. By studying the behavior and interaction of individual firms and consumers you will understand how industries and markets operate and evolve, why they differ from each other, and how they are affected by various public policies and global economic events.

PPE 2101: Principles of Macroeconomics

Economics is divided into two main branches: Microeconomics and Macroeconomics. While microeconomics discusses the behavior of relatively small entities such as consumers and firms, macroeconomics deals with the “big picture”. This course introduces students to the basic principles of macroeconomics. Hence, the course will examine macro variables such as output, unemployment, interest rates, and inflation which are important in gauging the state of the economy. We will also look at how these variables have behaved historically as well as uncover the causes underlying their behavior. The course will also consider economic fluctuations. Particular importance will be placed on understanding the business cycle — not only why the economy might enter a recession but what policy options the government and the Central bank have at their disposal to affect the business cycle and the impact of those macroeconomic policies in the short run and in the long run.

PPE 3100: Intermediate Microeconomics

This course is an advanced treatment of economics concepts that students have already been exposed to in the Principles of Microeconomics course. Hence, the course is somewhat abstract and reasonably technical. The course starts with individual preference, and analyzes, together with prices, how individual preferences determine individual demand and market demand. Then it analyzes the behavior of individual firms such as Profit Maximization, Cost Minimization and supply of goods and services. Different market structures such as Perfect Competition with a lot of buyers and sellers, Monopoly with a single seller and a lot of buyers are considered. It also deals with market structure such as Oligopoly with interdependent strategic behavior of rival firms. Hence, game theory that focuses on strategic behavior and helps analyze oligopolistic competition will also be
Courses

introduced. Then, a general equilibrium framework under which an economy allocates scarce resources in an efficient way is analyzed. In addition, various cases of Market failures such as Externalities, Public Goods etc. are also examined.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics and Calculus I.

PPE 3101: Intermediate Macroeconomics

Intermediate Macroeconomics underlines the application of economic theory to real-world data and policy. It builds up the tools, knowledge and expertise essential to work as a practicing macroeconomist. These may comprise an appraisal of the evidence on economic expansion, the flexible-price macroeconomic model, models of long run exogenous and endogenous growth as well as the functioning of capital based macroeconomics, on the one hand. On the other hand, these contain an evaluation of the evidence regarding wage-price rigidity, model in which markets do not always clear and hence the possibility of under full employment ‘equilibrium’, in-depth comparative analysis of the flexible and sticky price models, macroeconomic models that examine monetary and fiscal policy as well as consumption and investment in a small open economy context.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics, Principles of Macroeconomics, and Calculus I.

PPE 3102: Econometrics

Econometrics is a combination of Economic Theory, Statistics and Mathematics. However, econometrics is not merely an economic statistics, nor is it only an application of mathematics to economic theory; it is rather a combination of different aspects of quantitative approach to economics. Hence, in this course, both mathematical and statistical tools is employed to test the economic theories and estimating economic parameters/relations such as Multiplier, Marginal Propensity to Consume, Marginal Propensity to Invest, Price elasticity of Demand for a commodity, Elasticity of Substitution between different Factors of Production etc. using economic data. Testing economic theories and estimating economic parameters/relations are of utmost importance. They are particularly important in prescribing public policies that involve the well-being of millions of people, and are also important in business and other sectors. The techniques discussed in this course can be used in analyzing data of other social sciences such as Politics, Sociology, Anthropology, social work etc.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics, Principles of Macroeconomics, Probability and Statistics, and Calculus I.

PPE 3110: Microeconomics of Development

While some countries in the world grew at an unprecedented rate in the last fifty years, others were caught in abject poverty, severe income inequality and stagnation. Even those countries that have experienced economic growth, the economic changes were not always translated into proportional social changes and wellbeing. Again some poor countries made enormous strides in terms of achieving greater social changes in the presence of sluggish economic growth. This course begins by exploring the concepts of development and reviewing the relationship between poverty, inequality, economic growth and development. We will use economic principles to explore and analyze the core issues of economic development in that affects more than five billion people living in the developing world, with a particular emphasis on the decision making process of these poor households.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics

PPE 3112: Labor Economics

This course provides a discussion of the economics of the labor market. The course begins with an overview of the trends and institutional features that characterize the labor market. Particular attention is placed on the causes and consequences of rising female labor force participation rates, the growth of the service sector, and other labor market issues. After this introductory discussion, the focus of the course turns to a discussion of the theory of labor demand. In this section of the course, students examine the short-run and long-run determinants of labor demand, the determinants of the elasticity of labor demand, and the importance of demand. Students examine the tradeoff that occurs between the number of workers hired and the length of the work week. The next section of the course provides a discussion of the determinants of labor supply. This discussion begins with an examination of labor supply in a simple model in which workers face a choice between labor and leisure. This is followed by a discussion of the household production model in which individuals must choose to allocate time among market and various types of nonmarket activities. The effects of alternative types of welfare, unemployment compensation, and social security systems on labor supply are then examined. The concluding section of the course provides an examination of alternative sources of wage differentials. This portion of the course provides an examination of the economics of education, unions, discrimination, compensating wage differentials, and other determinants of wage differences.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics

PPE 3115: Game Theory

This course is an introductory course into strategic decision making. The beginning of the course will focus on developing
the techniques necessary to solve games. In the latter part of the course game theoretic analysis will be applied to a variety of topics, including, but not limited to, principal agent problems, auctions, and voting. The hope is that the student can see how the tools developed early in the course can be applied to a vast array of problems.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics

**PPE 3116: Environmental Economics**

This course will explore the following topics: The Evolution of Environmental Economics; The Visions of the Future; Externalities and Environmental Problems; Regulating the Market; The State of Environment -- Country Experiences; Development, Poverty and Environment; and Environmental Protection and Marketing Strategies.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics, Principles of Macroeconomics

**PPE 4100: Economics of Inequality**

This course introduces students to some of very important today's policy debates of poverty and inequality. This course will provide students up to date knowledge for measurement and the relations for both phenomena, with the help of fundamental concepts, theories and methodologies that are used by economists. For the solution of contemporary economic world problem to combat poverty, an historical perspective and details of long term view of income distribution in human societies will be explained. This course will help to examine the political and philosophical perspectives related to the access to resources and their distribution. An overview of global economy will help in exploring the effectiveness of some of the policies that are thought to minimize poverty and to reduce the gap between the rich and poor.

Pre-requisites: Principles of Microeconomics and Principle of Macroeconomics

**PPE 4101: Monetary Economics**

Monetary Economics is one of the elective courses, designed for students studying Economics as major. The course develops a number of theoretical frameworks for the analysis of domestic economic perspective related to money, market for money, monetary transmission mechanisms, which provides a base for the understanding of classical and Keynesian approaches for monetary theory and their empirical evidence. Second part of the course focuses on the issues of monetary policy implementation in the closed and open economy contexts, like determinants of the price level, rate of inflation, exchange rate in different regimes.

Pre-requisites: Principles of Microeconomics and Principle of Macroeconomics

**PPE 4102: Economics of Money, Banking and Financial Markets.**

In a globalized world banking and Finance is getting more important now a days. The interaction between banking and financial markets in an economic activity is thus more important. The aim of this course is to provide the in depth knowledge of banking and finance to the undergraduate students. It will focus on different concepts and issues of monetary and fiscal policies, which enhance the financial flows in the economy. In addition, the importance of commercial banking, the role of central bank and capital market will be discussed in the course. After completion of this course the students will gather a good knowledge on banking and financial systems.


**Environmental Sciences**

**ENVS 1000: Introduction to Environmental Science**

We will discuss the scope and importance of environmental science and its relationship with other branches of science. We will focus on several different aspects of the environment including: the principal components of the earth system – Atmosphere, Lithosphere, Hydrosphere, Biosphere and Pedosphere; the structure and function of ecosystems; aspects of biodiversity and its conservation; Renewable and non-renewable resources and their sustainable management; and topical issues e.g. carbon sequestration and global warming, pollution, natural disasters. This course does not have a lab but will include orientation tours to different industries and polluted areas and the preparation of a report on one of the visited areas.

**ENVS 1001: Water Resources and Development**

Water and water resources are important factors in the development of society. The course covers some of the essential facets in which water has combined with societal development. The course is introductory in nature and attempts to provide a basic overview of some of the disciplines such as water use and water quality that have specific applications in water resources engineering and management. The course focuses on three major parts of water resources and development. Part I deals with introduction to water resources including surface and ground water sources, basic water science, water resources development planning concepts and water resources development policy. Part II deals with water use and its associated analysis, including domestic/urban use, water supply and demand, irrigation and hydropower. Part III deals with water quality and environment including water pollution, public health and, environment and social impact assessment.

**ENVS 3000: Hydrology**

This course is designed to give comprehensive understanding of various hydrological processes involved in the hydrologic cycle including the land surface and subsurface processes, its linkages with the environment and the role of watershed and
geological characteristics in surface and subsurface water dynamics. The course also focuses on how these hydrological and hydrogeological processes are measured and quantified in laboratory and field. The course involves rigorous mathematical analysis of water balance, various components of hydrologic cycle, hydrological measurements, flood, statistical hydrology and groundwater hydraulics describing well flow in steady and transient cases and how they are influenced by human activities, natural processes and interventions. To illustrate and impart the working skills, a number of practical classes consisting of laboratory and field with case studies will be held. The course will enable students to understand the science behind the occurrence and movement of atmospheric, surface and subsurface water, and to obtain the knowledge of estimation, simulation and forecasting hydrological events, consequences of human interactions and their impact on society, environment and economic development. It will also help students to acquire, equip and strengthen the skill and competence to critically investigate and analyze the hydrological problems and water needs of society and environment which will help in evolving water policies, water management plans, strategic measures to combat hydrological disasters and engineering hydrologic plans and designs.

Prerequisite(s): Satisfactory completion of Calculus I and Physics I

ENVS/CSCI 3001: Numerical Methods and Computer Programming


ENVS 2001: Energy and Environment

Energy is the life blood of modern industrial society. Without adequate energy no nation can progress. Due to high consumption rates and market demands, energy exploration and production have increased around the world. Rapid exploration and production of energy is vital for economic growth, but sustainable growth will require a number of environmental considerations. Therefore, it is important to get a clear understanding of many complex issues involved in energy exploration, production, transportation, conversion, and consumption. The objective of this course is to address the current status and future prospects of renewable and nonrenewable energy sources. The course will include energy concepts & issues, various energy sources and technologies for energy generation, and energy conservation &management. It will also investigate the environmental impacts related to current energy exploration, production, transportation, and conversion technologies. Crucial environmental questions that are currently receiving much public attention, such as global warming, nuclear energy production, and technical options for reducing CO2 emissions will be analyzed. Finally, energy conservation & management, and policy & economic factors affecting energy and the environment will be discussed to learn how to achieve sustainability in the energy sector. The objective of this course is to address the current status and future prospects of renewable and non renewable energy sources. It will also investigate the environmental impacts related to current energy exploration, production, and consumption. The objectives of this course are to:

- Understand the science behind the occurrence and movement of atmospheric, surface and subsurface water.
- Obtain knowledge of estimation, simulation, and forecasting hydrological events, consequences of human interactions, and their impact on society, environment, and economic development.
- Help students acquire, equip, and strengthen their skills and competence to critically investigate and analyze hydrological problems and water needs.
- Help students understand water policies, water management plans, and strategic measures to combat hydrological disasters and engineering hydrologic plans.

Prerequisite(s): Satisfactory completion of Calculus I and Physics I

ENVS/ BIOL 3003: Ecology (with Lab)

In this course we will study the relationships among living organisms and their physical environment, population growth and regulation, interspecific interactions, community and ecosystem structure and function, and biogeography. Students should improve their ecological literacy by learning the basic facts, principles and concepts of the field of ecology, improve scientific literacy by learning how ecologists construct knowledge and improve their analytical and writing skills through analysis and interpretation of ecological data.

Prerequisite(s): Satisfactory completion of, or concurrent enrollment in, Biology II

ENVS 3004: Geology

This course involves the study of important physical characteristics of rocks and minerals, focusing on common igneous, sedimentary and metamorphic rocks. After an introduction to general geology, students will study petrology, mineralogy, structural geology and paleontology. Consideration of geological resources, the supply, uses and

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conservation of those resources in the environment including aquifers.

ENVS 3005: Environment Chemistry & Toxicology (with Lab)

Environmental chemistry includes atmospheric, aquatic and soil chemistry. This course is designed to provide the understanding of how the uncontaminated environment works, which chemicals in what concentrations are present naturally and with what effects, and how the chemistry of environment is sensitive to anthropogenic and natural activities. Without this it would be impossible to accurately study the effects humans have on the environment through the release of chemicals. It includes natural chemical cycles in the geosphere, hydrosphere and atmosphere. This course addresses the sources, fate and transport of chemicals in the environment and their environmental partitioning and transport, degradation and deposition including greenhouse gas emissions and carbon sequestration. The course will enable students to elucidate and understand specific chemicals, their effects and significance, and predictions of fate. The course also focuses on how chemicals in the environment affect on wildlife and human health. Precisely, toxicology is the study of effects of toxic substances on living systems. These toxic substances can either be organic or inorganic, synthetic or natural materials. Environmental toxicology further extends to aspects of chemical transport, fate, persistence and biological accumulation of toxic substances and their effects at the population and community levels. The analytical methods to measure chemicals are also an important part of this course.

Prerequisite(s): Satisfactory completion of General Chemistry II

ENVS 3006: Remote sensing and GIS

Introduction to Remote Sensing and GIS, Historical development of remote sensing, Remote sensing components, Data collection and transmission, Sensors and satellite imageries, Electromagnetic energy and its interactions with earth’s surface and environment, Wavebands, Radiometric quantities, Photogrammetry and aerial photography, Vertical and tilted photographs, Fly view, Aerial mosaics, Satellite data acquisition for earth's environment, natural resources management and weather forecast, GIS concepts, Spatial relationships, Topology, Vector and raster data structures and algorithms, Spatial interpolation, Spatial analysis, DEM, TIN, Spatial statistics, Case studies dealing with environmental monitoring, water resources, snow and glaciers, agriculture, and coastal and urban planning, Integrated use of remote sensing & GIS.

Prerequisite(s): Satisfactory completion of Biology I

ENVS 4002: Environmental Microbiology (with Lab)

Microorganisms are minute living beings which are too small to see by the naked eye. Individual organisms can only be seen with the help of microscope. These organisms are associated with many inconveniences, diseases, and infections such as AIDS, cholera, typhoid, pimples, and food poisoning. However, some of these microorganisms have vital contributions to our environment wellbeing. The goal of this course is to study the fundamental concepts of Microbiology. It begins by examining the various microorganisms, such as bacteria, viruses, parasites, fungi, planktons. Additionally, the importance or microorganisms in public health, disease, the environment, and industry will be explored. The course includes understanding of various microbes such as bacteria, fungi, algae, protozoa, arthropods, etc., microbial growth, processes involved such as metabolism, catabolism, etc., microbial genetics and viruses, role of microbes in health and diseases and microbial applications in addressing varieties of environmental problems. The course will include soil microbiology that will cover basic concepts and theories on microbial occurrence, distribution, and activity in soil environment. This course consist comprehensive knowledge on fundamental microbial functions and real-world issues and problems in relation to agricultural production and environmental quality. This course is outlined in such a way that it will be suitable for pre-med, biological science, environmental science, and engineering students.

ENVS 4003: Waste Management

The main goal of this course is to enlighten the essential principles involved in the management of waste in a manner that meets public health and environmental concerns. Waste management includes production, transport, handling, treatment and disposal of wastes (solid and liquid). During the course tenure, the source, composition and properties of waste will be discussed. Advanced principles related to the separation, processing, and transformation technologies of waste will be discussed also. The reuse of recovered materials, are some of the important topics of this course.

ENVS 4004: Global Climate Change

Global Climate Change is an introductory course on climate and climate change to provide a thorough understanding of what causes change in the earth’s climate. This course examines the global climate system and main process
controlling climate. The past, present, and future changes to temperature, weather patterns, and climatic conditions by natural and man-made factors will also be discussed. Potential effects and major environmental concerns due to climate change in different regions from Asia, Africa, North America and elsewhere will be examined. Ecological effects and human dimensions of climate change. Finally, policies, politics, adaptation and mitigation options that could reduce the impact of climate change will be discussed.

ENVS 4005: Natural Disasters: Assessment and Management Tools

This course provides an introduction to natural disasters and covers basic principles of natural disaster assessment and management. Students will be introduced to the causes and characteristics of different kinds of natural hazards such as earthquakes, flooding, and cyclones. Assessment methodologies for hazard and risk in urban areas are introduced and disaster mitigation planning methods are discussed. Geographic Information Tools will be used to present the results of assessment. Therefore in this course Arc-GIS will be introduced.

ENVS 5000: Senior Thesis in Environmental Science I

An intensive research project undertaken in collaboration with a faculty member. This research project allows students to have valuable and direct experience in the field of environmental sciences. The student will be expected to write a short proposal, conduct a literature search, design and conduct some independent research (laboratory, field, computational, or library), and present the results in oral and written (thesis) form.

ENVS 5001: Senior Thesis in Environmental Science II

Senior Thesis in Environmental Science may be extended to 2 semesters with the permission of the supervising faculty member and the department.

ENVS 5002: Senior Seminar in Environmental Science

Senior seminar course is for final semester student of Environmental Sciences program. This course allows students to have valuable and direct experience in the field of environmental sciences and engineering especially in soil, water, climate change and wastes. The students will be expected to write a short proposal, conduct a literature search, design some independent /group research, and present the results in oral form.

PPE 3003: Comparative Politics of Religion and Secularism

In the mid-20th century, the secularization hypothesis, which predicted the triumph of secularism and retreat of religion from public life, enjoyed popularity in academic and political circles. By the late 20th century, however, many scholars and policy-makers emphasized the "resurgence" of religion. This course will give students the opportunity to investigate the scope and impact of this apparent "resurgence." Is secularism a general ideological failure or simply less politically expedient under certain political conditions? Does religion exercise a distinct effect on politics or does it just feed into existing political equations? To address such questions, we will examine case studies including the United States, France, the Netherlands, Tunisia, Poland, Egypt, Turkey, Israel, Uzbekistan, Pakistan, Bangladesh, Sri Lanka, and Indonesia.

PPE 3105: Introduction to International Relations

This course is meant to acquaint students with the core concepts, processes, and issues of international relations (IR). The first portion of the course explores essential concepts: the actors in international relations, how foreign policy is made, the role of power, and the most prominent general approaches to understanding IR. The remaining sections of the course examine contemporary and future problems in the international system, including armed conflict, economics, demography, and the environment. It should be noted that this is not a course in current events, although some reference will be made to current events in discussing the theories and topics covered in the course. My goal is to provide students with the tools to evaluate events themselves and form their own opinions. Students are expected to attend every class meeting, having completed the assigned reading and thought about the discussion points listed in the syllabus. Class performance will be measured with two exams that combine multiple choice, short answer, and map identification questions; class attendance; 4 short papers; and one final paper. Upon completion of this course, students should have a strong basic understanding of international relations and a foundation for taking upper-division courses on the subject.

PPE 3106: Introduction to Comparative Politics

This course provides students with the tools necessary to analyze complex political phenomena. Through engagement with different theoretical approaches that highlight the roles of leaders, institutions, the state, and civil society, we will assess political outcomes such as economic development, ethnic conflict, and democratization. Drawing on case studies will enable us to compare different political systems and address questions about the malleability of ethnic identity, the relationship between economic development and regime type, and the impact of international factors on domestic power dynamics. This course underlines how different theoretical approaches can shape our understanding(s) of political events and narratives.
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PPE / ASIA 3201: Civil Society and Social Movements

What do we mean by civil society and why do we think it is important? What is the role of civil society in making a society stronger? What are the “uncivil” dimensions of civil society? In this course we will look at the dimensions of civic associations that can help to mediate conflict and build trust or exacerbate conflict and increase the separateness between communities. Conceptualizing social movements as an important kind of social action in the realm of civil society, we will then examine various cases of social movements in Asia to develop a better understanding of what is a social movement, how it is built and sustained, and what are its outcomes, at both local and global levels.

PPE 3202: Humanitarianism & Politics

The field of humanitarianism has significantly changed since the end of the Cold War. Whereas in the past, humanitarian relief was largely ad hoc and un-coordinated, there is now a complex network of NGOs, states, and international organizations that are engaged in humanitarian work. This course explores the dynamics of humanitarianism, that is, how the field of humanitarianism has evolved as a result of the interplay between politics and the provision of emergency relief. Humanitarianism is comprised of principles about the legitimate deployment of power on behalf of distant suffering strangers. At the same time, while humanitarian governance purports to act on behalf of the welfare of others, this raises important questions about when relief crosses the line towards paternalism. Who is a legitimate humanitarian actor? How, and to whom, are humanitarian actors accountable? To what ends are humanitarian resources deployed? This course will provide a broad historical perspective on the emergence of the contemporary humanitarian system, explore some of the challenges and dilemmas currently faced by different actors in specific crises, and speculate about the future of this expanding field. It provides an opportunity to reflect on the limitations of humanitarianism as either an antidote to catastrophic change or as a means to engineer positive political transformation.

ASIA / PPE 3203: Politics in South Asia

This course provides an introduction to the politics of India, Pakistan, Bangladesh, Sri Lanka, and Nepal. The first part of the course constitutes a brief survey of the political histories of each country. The second part explores the following topics and invites comparison among the different countries: Caste, Class, and Ethnicity; Communism, State Structures, and Civil Society; Political Movements, Insurrections, and Revolution; Local Structures of Power; Culture, Religion, and Gender; The Political Economy of Development; and Parties & Elections.

PPE / ASIA 3205: Gender, Peace & Conflict in Asia

Gender infuses the world around us. Across the globe, we see many ways in which gender expectations and capabilities relate to disparities in economic status, educational attainment, health, legal rights and other areas between men and women. In continuing conflicts and in building peace, gender plays a central role, as well. Conceptions of gender have been used to justify domination, rape, mutilation, imprisonment and killing, interventions, as well as participation in movements for peace, solidarity, and resistance. This course provides an introduction to conflict and peace as gendered phenomena. Focusing on experiences across Asia (and beyond), we will consider the social construction of masculinities and femininities in different contexts and from different perspectives. We will make use of theoretical texts, case studies from the region, policy reports, contemporary news articles, films, and our own experiences and views. Throughout the semester, we will develop our skills in using gender as an important “lens” to examine dimensions of conflict and peace.

PPE / ASIA 3206: Political Identities in Asia

How do identities become politicized? How are identities constructed to impact on power? Who controls the meaning of a given identity in society? How do we understand and analyze the “us” vs. “them” identity conflicts in our societies? This course will draw on theories from sociology, political science, anthropology and economics to explore these questions from a comparative perspective in both Asia and elsewhere. We will utilize readings, projects, discussions and films to delve not only into the politics of identity regarding nation, class and gender, but also lifestyles and differing visions of the good society.

PPE 3207: Global Science and Global Politics

Scientific and technological advancements, from cell phones to vaccines to nuclear power plants to genetically modified organisms, are progressing rapidly and profoundly affect both developed and developing countries. In this class, we will investigate claims of expertise, evidence, intellectual property, and development through case studies such as sex selection, genetically modified organisms, nuclear energy and biosecurity, and ask some of the following questions: How do governments balance tensions between promoting its own national interests and cooperating with the international community? What happens to politics when state officials fail to inform citizens of real threats to life? What are the moral and political consequences of remedies available in the wake of technological disasters (such as the Bhopal chemical leak and the Chernobyl nuclear reactor explosion)? How does the global nature of science affect the outputs of science? We will read a selection of journal articles, news articles, and two books: Life Exposed: Biological Citizens after Chernobyl by Adriana Petryna and Unnatural Selection: Choosing Boys over Girls by Adriana Petryna and Unnatural Selection: Choosing Boys over...
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Girls and the Consequences of a World Full of Men by Mara Hvistendahl.

Lots of other possibilities with approval of adviser.

PPE / PSYC 3208: Political Psychology

Political psychology is an inter-disciplinary field of social science inquiry, with roots in political science and mainly social and cognitive psychology. Political psychologists attempt to understand the psychological underpinnings, roots, and consequences of political behavior. Hence, this field considers the relationship between human thought and political behavior - the psychological account of political phenomena and the political mind. A key theme that will run through the course is the role of emotions on 'rational' political decision making. Political psychology has a practical arm. It explores the dynamics of important 'real-world' phenomena in ways that provide valuable and useful information about politics and behavior. This helps us understand why political events unfold as they do. This course is divided into three sections – considering psychological issues behind individual political figures and leadership; institutional behavior; and political perceptions, emotions, and motivated actions of the public. This will be examined mainly in the backdrop of personality and social influence. Thus, the course will address topics such as understanding behaviors of well-known political figures and historical/political events (past and present); voting behavior; media representations; leadership and decision making; public attitude formation; racism and prejudice; conflict, accepting and participating in violence.

PPE 3209: Gender, Justice and War

This course begins with an exploration of gender as a social construction in the theory and practice of international relations, and will then go on to explore some of the myriad ways in which gender features in issues of war and peace. What are gendered relations of power? What role, if any, does gender play in the causes and consequences of war? How is this manifested? We will explore topics such as masculinities and war, sexual violence in war, gender and nationalism, the war on terror and feminist ethics in order to understand the relationships between gender, war and peace. Throughout the course, a great deal of emphasis will be placed on empirical applications of the concepts learnt.

PPE 3210: Contemporary Sociological Theory

This course introduces the current approaches and perspectives within the field of sociology. Key topics and debates that will be covered include symbolic interactionism, phenomenology, structuralism, network theory, critical theory, feminist theory and modernity/postmodernity. Thus, both the macro level social structures that shape society and the micro level social interactions that occur between individuals will be considered. The works of major figures such as Foucault, Giddens, Bourdieu, Bauman, and Habermas will all be examined. Students will be encouraged to reflect on how sociological theory is relevant to modern life, the impact individuals can have on social structures and the nature of social action and conflict.

PPE 3211: Global Governance

The world is currently carved up into states that are jealous of their sovereignty. The world is full of problems and conflicts that cross state-borders or concern people in more than one state. These two facts about the world set up a number of challenges and the goal of this class is to examine how the international community meets those challenges. In other words we will explore the myriad ways that issues with a global reach are managed and governed sometimes well and sometimes poorly. This includes traditional security concerns like the spread of weapons of mass destruction and genocide, along with conflicts over ideas and resources like violations of human rights, human security, trade disputes, North-South tension, and ecological degradation. These varied issues have been and continue to be addressed through diverse means and we will explore the role of norms, multilateral diplomacy, intergovernmental organizations (IGOs), and non-governmental organizations (NGOs) in management and governance on the global stage. The course begins with an examination of the actors that have been tasked with managing global problems— their nature and their roles. We will explore the history and functions of multilateral treaties, global and regional IGOs, and NGOs along with the theoretical tools that help us to understand when cooperation and effective management is likely (and when it is not). The rest of the course is devoted to the study of specific topics in global governance and the diverse ways that the international community has responded to them. At the end of the course you should be able to answer these questions about a full range of global issues. The ultimate objective of the class is thus to provide you with a better understanding of the nature of transnational problems in the world and, more importantly, how they are addressed and governed.

PPE 3218: Democratic Theory

This course examines the idea of democracy. What is democracy? Is it an ideal form of government? The course will look at the development of democracy from the time of ancient Athens to the modern state. We will examine Plato’s critique of democracy and examine various justifications for democracy in detail. Different types of democracies, such as direct democracy, participatory democracy, and deliberative democracy will be discussed. The course also looks at some issues in democratic theory such as the right to vote, majority-rule, proportional representation, and judicial review. We will also see how ideas in democratic theory apply to real nations including those in South Asia. The course assessment will consist of participation, two essays, and a final exam.
PPE 3217: Comparative Politics and Democratization

In comparative politics we compare the elements of government and politics in different countries, and look for explanations of how different political systems are formed and how they operate. In this course we begin with an inquiry into the modern concepts of state and nation, and then consider how political-economic factors, social and cultural factors, and other conditions might affect government and politics in different countries. One of the major topics we will grapple with is democracy and democratization throughout the world. How we define democracy, its relationship to political culture and economic growth, and different processes of democratization will be discussed. There is ongoing debate over what are the necessary conditions or antecedents of democracy and what are its effects, in terms of economic structure and development, public deliberation and participation, and political accountability—we will explore these topics and much more. Later in the course, we will apply these concepts to a comparison of India and Pakistan and consider explanations for the varying success of democratic consolidation in those two countries.

PPE 3250 Migration, Mobility and Development

The various and dynamic flows of people, ideas and things among locales, nations and regions affect social, economic and political development. The primary aim of this course is to link the agency of movement in forms such as travel and tourism, communication and transportation technologies, mobility and migration to the varying levels and spatial patterns of development. Transfer and transition are taken then as fundamental to human affairs thereby continuously shaping not only constellations of power, but also individual identities and everyday lives. Special attention will be paid to the art and science of representing flows, circuits and networks across the surface of the earth. This course counts towards the minor in Developmental Studies or as a PPE- Politics elective.

PPE 3251: The Parliament of Man? The Role of the United Nations on World Politics

This course introduces students to the complexities in the political development of the United Nations. Students will learn how the organization operates, what its relationship with external agents is, and who in New York decides what exactly. The course will also analyse how the UN has responded in the past—and is responding today—to a number of global issues such as international peace and security, humanitarian assistance, post-conflict peace-building and reconstruction. A theoretical perspective will be accompanied by a number of practical case-studies. This course counts as a PPE- Politics elective.

PPE 3252 Research Methods in Political Analysis

This course introduces the strategies and techniques of scientific research in political science. It provides the basics of social science inquiry and the means by which social science research is performed. Students are expected to learn how to examine various types of political phenomena with appropriate approaches. To this end, this course covers topics including research design, causal inference, hypotheses and variables, measurement, basic statistical techniques, and other forms of social science inquiry such as game theory and experimentation. It also addresses bad social science—misleading or wrong work that claims to have objective validity. What you learn in this course will enable you to be a better consumer of social science literature and statistics in future classes and elsewhere. Some of you may choose to undertake original social science research, and this class will provide you the foundation for that work. This course counts as a PPE- Politics elective.

PSYCH/PPE 3300: Leadership, Politics and Psychology

Political psychology explores the dynamics of important ‘real-world’ phenomena in ways that provide valuable and useful information about politics and behaviour. This helps us understand why political behaviours and events unfold as they do. This course considers psychological issues behind political leadership, institutional behaviour, political perceptions, emotions, and motivated actions. Leadership includes understanding the self as well as motivating, inspiring, managing, guiding, and supporting others to function ethically and effectively.

The key aspect of this course is that it offers a theoretical understanding as well as a practical training to understanding political leadership behaviour from a psychological perspective. The theoretical component will focus on the political mind and behaviour of leaders and leadership from cognitive, social, and personality psychology perspectives. Leadership will be evaluated as a process of influence and empowerment, and types of leadership such as transformational, authentic, situational, and educational leadership will be critically assessed. The course will address topics such as understanding behaviours of well-known political figures and historical/political events (past and present). The theoretical component will also include understanding how the political context affects the individual, group dynamics, emotional intelligence, and inter-personal conflict.

PPE 3500 Political Economy

This course examines International Political Economy (IPE), a field developed from a combination of International Relations, Comparative Politics, and Economics. As politics is often described as “who gets what, when, and why,” IPE studies the “winners” and “losers” in the global economy and within states as a result of international commerce and global competition. In addition, it examines why international cooperation and
its development is an important theoretical component in IPE. We will evaluate how international commerce impacts our daily lives, from consumption to occupation. Some core questions we will examine include what is the primary force behind the liberalization of international financial capital, and what impact does this shift have on states? What economic policies are best for development, and what role does foreign aid play? Why are some countries open to international trade and competition on some industries but not others? What are the differences between tariffs and non-tariff barriers to trade, and what are their impacts? How does globalization and migration affect the international economy?

PPE/ASIA 3650: Theories and Practices of Development
This course is an introductory and mandatory course to complete the requirements for the Minor in Development Studies. Some of the central questions that will be addressed are: What is development? How do we achieve it? What has been done so far and how well have we done? The course will provide an overview of development theories and practices since the 'Development Years' (post WWII). The course will be looking at how development has been understood, defined and theorized and will be presenting the implications for development practices. It will also look at how the practices have contributed to shape the theories and understanding of development. The different theories and practices of development will be analyzed in their historical, economic and sociopolitical contexts to better grasp their influence on each other. The central importance of poverty and poverty reduction strategies will be discussed, as well as the institutional landscape, from the role of various actors to the use of aid for development and poverty reduction.

PPE / ASIA 3700: Introduction to Planning Theory & Practices

Urbanization is one of the dominant processes of the 21st century, increasing the demographic pressure in cities and leading to changes in socioeconomic, political and cultural patterns and structures. It has also been accompanied by the development of ‘informal’ settlements and economy and increased urban poverty. This rapid urbanization results in both challenges and opportunities and profoundly affects urban development and governance, from infrastructure and service delivery to economic growth and sociopolitical participation. Questions of social justice, empowerment, inclusion, mobility and freedoms are at the core of these challenges. The course will discuss how the questions of equity, efficiency and sustainability are framed in the discourses of development, planning and urban governance. It will analyze how decision-making and implementation is made in relation to development and urban management projects, programs and policies. It will present how planning reinforces or challenges power dynamics, structural inequalities and conditions of access. In order to do so, we will explore the links and influences of development and planning theories, paradigms and discourses on each other and on practices, actions and policy.

PPE / ASIA 3701: Gender and International Development

After many decades to promote development around the world, why does so much poverty persist? What are some of the causes of inequality, and how do they relate to economic transformations, political reforms, and development interventions? Why do various development policies often have different consequences for men and women? The course provides ample opportunities to explore these issues. We begin with an introduction to the history of development itself, its underlying assumptions and its range of supporters and critics. We pose fundamental questions about how development has incorporated gender – and race, class, and other forms of difference. We consider various experiences with and meanings given to development by women and men in different contexts – as residents, aid workers, policy makers and government officials. In considering how development projects and policies are experienced in everyday life in rural and urban areas, the course asks: What are the underlying political, economic, social, and gender dynamics that make “development” an on-going problem worldwide?

PPE / ASIA 4213: Social Entrepreneurship

Social entrepreneurship, social business and social innovation have been growing in popularity, importance and recognition as innovative approaches to increase social and environmental benefits/output as part of the solution to deal with social/societal problems and challenges. This course will be three-fold. One part of the course will be about the origins, principles and foundations of social entrepreneurship. In order to link theory and practice, a second dimension will be about analyzing and discussing case studies to understand better the process of how certain approaches, organizations or projects have tried to address/tackle social challenges and problems and the lessons that can be learned from these experiences. Finally, with the explicit objective of learning by doing, the third aspect of the course will involve the students in the process of identifying a problem, understand the problematic around it, and come up with an innovative idea to deal with it in a ‘social entrepreneurship’ manner. This is a culminating experience at AUW where the students confront their understanding of social and societal challenges to the practical challenge of action and implementation. Through this experience, the students will also get introduced to (social) business management and to the basic functions of the enterprise.

PPE 4300 International Leadership

This course will compare political leadership at the national and international level. Classical leadership theories will be canvassed, normative questions about leadership will be addressed, and the relationship between individual leaders and the wider societal and historical forces they encounter.
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will feature as a dominant theme. Different leadership theories will be contrasted using contemporary examples, and the dark side of leadership will also traverse historical figures such as Hitler and Stalin. A particular aspect of this course will be to focus on the philosophical and psychological aspects of leadership, including the master skill of discernment underpinned by a leader’s character. The course will also give special attention to a unique figure in world politics: the UN Secretary-General (SG). It will consider the factors that have shaped the role of the world’s top diplomat by considering how the SGs of the past have exercised their functions and by comparing their leadership skills with those of national leaders. The course will also highlight the unique moral authority of the SG and will ask whether—and why—he or she carries more weight than national leaders.

PPE 4310 Multilateral Diplomacy: Politics Power and Persuasion

The forces of globalization and fragmentation at work in global politics since the end of the Cold War can no longer be managed through bilateral diplomatic relations. As a result, the post-Cold War international political environment is pushing multilateral diplomacy and international organizations to centre stage. This course explores the unique facets of multilateral diplomacy and considers how the latter has adjusted to the post-Cold War political and economic climate. The course will introduce students to the history, theory and practice of diplomatic negotiations in key areas such as crisis diplomacy, international economic diplomacy, summit diplomacy and nongovernmental diplomacy.

PPE 4400 Politics of Bangladesh

Bangladesh serves as a rich and fascinating case study for debates within the field of comparative politics about the significance of state capacity and autonomy, the importance of institution building, the advantages and disadvantages of different electoral systems, the relationship between economic development and democratization, the rise of competitive authoritarianism, the impact of civil society on economic and political development, the sources of ethnic conflict, and role of religion in politics. Comparing Bangladesh to other cases such as Egypt, India, Malaysia, Pakistan, and Turkey will enable students to assess competing explanations about various political outcomes and strengthen their understanding of the comparative method. This writing-intensive course will give each student the opportunity to develop a research paper that explores a particular theoretical and/or empirical puzzle of her interest about politics in Bangladesh. Prerequisite: Introduction to Comparative Politics or equivalent.

PPE 4702 – Cities, Planning and Development II: Urban Challenges and Poverty

Countries in the Global South have been facing increased and accelerated levels of urbanization, often accompanied by the development of ‘informal’ settlements and economy and increased urban poverty. Urbanization produces a lot of challenges at different levels from infrastructure and service delivery to economic growth and opportunities. Mass poverty in cities of the Global South intensifies these challenges. Questions of participation, representation, governance, social justice, empowerment and freedoms are at the core of these challenges. Key dimensions like mobility, access, integration and exclusion have a tremendous impact on the opportunities and the constraints faced by some groups over others in achieving sustainable livelihood strategies and trying to improve their living conditions in being fully part of the world they live in. This course is a senior undergraduate seminar combined with a workshop approach. One central part of the course will be about presenting key concepts and analyzing case studies related to challenges in urban management and poverty in the Global South in an interdisciplinary manner. The other main part of the course will be a practical and more field-oriented approach to explore these challenges further. Prerequisite: Only students who have taken ‘Cities, Planning and Development I: Theories and Practices’ PPE 3700 can register for this course.

Philosophy

PPE 3001: The State of Nature and the Nature of the State

This course examines the thought-device of the "state of nature" - a situation in which human beings live without a political sovereign. We will consider how this concept has been understood in the history of philosophy and social theory, by thinkers such as Aristotle, Hobbes, Rousseau and Freud. We will also explore the treatment of "nature" and the "state of nature" in works of film and literature, including Joseph Conrad's novel Heart of Darkness. Throughout the course, we will focus on how the "state of nature" has been used to explain, justify, or criticize "the nature of the state" - i.e. man's condition within political community under a sovereign.

PPE 3002: Metaphysics

Metaphysics is an important branch of philosophy querying questions like: What is/are really out there in the world? What is/are basic/fundamental? Is the world out there independent from me? Is a person really real – in the sense of being basic or fundamental and thus irreducible feature of the world? Or a person is a construction and thus an illusion; can be reduced to more basic entities like atoms and sub-atomic particles? Is the world basically made of facts and events? Or, made of things or objects? Do the abstract terms like “three”, “courage”, “womanhood” refer to something real out there? In this course we will mainly focus on the last question. We will see how the Platonists like to argue for the entities allegedly referred to by those abstract terms. We will also consider the arguments countering the Platonist view. This
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debate is not confined only in philosophy; it echoes in various other disciplines: in biology, physics and in history for example. Having this course you are expected to gain a deep insight about those disciplines as well. The course is meant for the senior undergraduates. But the only prerequisite for your taking this course is your high motivation.

PPE 3007: Distributive Justice

Should society have a just distribution of wealth? What is a just distribution? One that is equal, lets people keep what they earn, promotes overall happiness, gives people what they deserve, or something else? This course examines whether distributive justice should be a goal of society and examines competing theories of distributive justice. The theories to be examined are utilitarianism, liberal egalitarianism, libertarianism, desertingness, Marxism, and communitarianism. In examining these theories, the course will cover topics such as taxation and incentives, unconditional basic income, market socialism, and the moral limits of the market. Thinkers covered include Rawls, Nozick, Gauthier, Dworkin, Sen, Marx, and Walzer. This course is recommended for UG3s and UG4s only.

PPE 3212: Ethics and Policy in Health Care Issues

In this course we examine moral and political problems that arise from healthcare-related issues. Is euthanasia sometimes morally justified? Should it be legal? Should abortion be illegal? How should society distribute scarce medical resources? Should there be a right to healthcare? Is using animals for medical experimentation justified? If cloning of humans was possible would it be justified? How should society address the scarcity of human organs for transplantation? Should people be allowed to buy and sell organs? What are stem cells and why are their uses controversial? Should genetic intervention by parents or society be permitted? The course assessment will consist of participation, two essays, and a final exam.

PPE 3501: Principles of Critical Thinking

This course assumes that there are some core principles or tactics which we use, either tacitly or explicitly, in various instants of correct reasoning and critical thinking (irrespective of any specific domains). They are partly technical; but they will not be that technical. Nor are they all logic. We will, for example, learn how to etch the underlying argument of a given text or discourse, how to reduce bias and prejudice in making a conclusion/decision, how to proceed with an argumentative essay, and what sources to rely on. And in the logic part, we will learn about correct/incorrect reasoning, valid/invalid arguments, proof techniques, and fallacies.

PPE 4200 Logic

Logic deals with inferences – searches, guesses, predictions, or whatever – which are some kind of (mental) moves taking us from one set of truths (or claims, clues, or whatever) to another similar set. It tells us whether such a move is correct or incorrect. It is a skill as well as a subject to study. As a subject logic is pursued, and often required, in various disciplines; mainly in philosophy, mathematics, computer science, and linguistics. As a skill it is used in our various activities. We will be initiated into the subject through this course. We will become aware of the skill by seeing how various inferences are spelled out. We will first cover propositional logic (where we will see how simply from the truth of a number of sentences we can infer the truth of a new sentence; we will take the sentences as just truth-bearers and ignore their internal structure), and later go for quantification (that is related with our inferences involving quantifiers like "some" and "all"; no longer can we ignore the internal structure of the relevant sentences then). We have to also absorb the basic notions like validity, models, and proofs.

Economics

PPE 2100: Principles of Microeconomics

This course gives you an introduction to microeconomics. We will be analyzing the fundamental concepts with an emphasis on applications of economic tools to modern day issues. This course will familiarize you with the determinants of the behavior of individuals and firms, the decisions they make given the set of choices available to them and how they respond to incentives. By studying the behavior and interaction of individual firms and consumers you will understand how industries and markets operate and evolve, why they differ from each other, and how they are affected by various public policies and global economic events.

PPE 2101: Principles of Macroeconomics

Economics is divided into two main branches: Microeconomics and Macroeconomics. While microeconomics discusses the behavior of relatively small entities such as consumers and firms, macroeconomics deals with the “big picture”. This course introduces students to the basic principles of macroeconomics. Hence, the course will examine macro variables such as output, unemployment, interest rates, and inflation which are important in gauging the state of the economy. We will also look at how these variables have behaved historically as well as uncover the causes underlying their behavior. The course will also consider economic fluctuations. Particular importance will be placed on understanding the business cycle — not only why the economy might enter a recession but what policy options the government and the Central bank have at their disposal to affect the business cycle and the impact of those macroeconomic policies in the short run and in the long run.

PPE 3100: Intermediate Microeconomics
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This course is an advanced treatment of economics concepts that students have already been exposed to in the Principles of Microeconomics course. Hence, the course is somewhat abstract and reasonably technical. The course starts with individual preference, and analyzes, together with prices, how individual preferences determine individual demand and market demand. Then it analyzes the behavior of individual firms such as Profit Maximization, Cost Minimization and supply of goods and services. Different market structures such as Perfect Competition with a lot of buyers and sellers, Monopoly with a single seller and a lot of buyers are considered. It also deals with market structure such as Oligopoly with interdependent strategic behavior of rival firms. Hence, game theory that focuses on strategic behavior and helps analyze oligopolistic competition will also be introduced. Then, a general equilibrium framework under which an economy allocates scarce resources in an efficient way is analyzed. In addition, various cases of Market failures that involve the well-being of millions of people, and are also important in business and other sectors.

The techniques discussed in this course can be used in analyzing data of other social sciences such as Politics, Sociology, Anthropology, social work etc. Prerequisite(s): Satisfactory completion of Principles of Microeconomics, Principles of Macroeconomics, Probability and Statistics, and Calculus I.

PPE 3110: Microeconomics of Development

While some countries in the world grew at an unprecedented rate in the last fifty years, others were caught in abject poverty, severe income inequality and stagnation. Even those countries that have experienced economic growth, the economic changes were not always translated into proportional social changes and wellbeing. Again some poor countries made enormous strides in terms of achieving greater social changes in the presence of sluggish economic growth. This course begins by exploring the concepts of development and reviewing the relationship between poverty, inequality, economic growth and development. We will use economic principles to explore and analyze the core issues of economic development in that affects more than five billion people living in the developing world, with a particular emphasis on the decision making process of these poor households.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics

PPE 3112: Labor Economics

This course provides a discussion of the economics of the labor market. The course begins with an overview of the trends and institutional features that characterize the labor market. Particular attention is placed on the causes and consequences of rising female labor force participation rates, the growth of the service sector, and other labor market issues. After this introductory discussion, the focus of the course turns to a discussion of the theory of labor demand. In this section of the course, students examine the short-run and long-run determinants of labor demand, the determinants of the elasticity of labor demand, and the importance of demand. Students examine the tradeoff that occurs between the number of workers hired and the length of the work week. The next section of the course provides a discussion of the determinants of labor supply. This discussion begins with an examination of labor supply in a simple model in which workers face a choice between labor and leisure. This is followed by a discussion of the household production model in which individuals must choose to allocate time among market and various types of nonmarket activities. The effects of alternative types of welfare, unemployment compensation, and social security systems on
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Labor supply are then examined. The concluding section of the course provides an examination of alternative sources of wage differentials. This portion of the course provides an examination of the economics of education, unions, discrimination, compensating wage differentials, and other determinants of wage differences.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics

PPE 3115: Game Theory

This course is an introductory course into strategic decision making. The beginning of the course will focus on developing the techniques necessary to solve games. In the latter part of the course game theoretic analysis will be applied to a variety of topics, including, but not limited to, principal agent problems, auctions, and voting. The hope is that the student can see how the tools developed early in the course can be applied to a vast array of problems.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics

PPE 3116: Environmental Economics

This course will explore the following topics: The Evolution of Environmental Economics; The Visions of the Future; Externalities and Environmental Problems; Regulating the Market; The State of Environment -- Country Experiences; Development, Poverty and Environment; and Environmental Protection and Marketing Strategies.

Prerequisite(s): Satisfactory completion of Principles of Microeconomics, Principles of Macroeconomics

PPE 4100 Economics of Inequality

This course introduces students to some of very important today's policy debates of poverty and inequality. This course will provide students up to date knowledge for measurement and the relations for both phenomena, with the help of fundamental concepts, theories and methodologies that are used by economists. For the solution of contemporary economic world problem to combat poverty, an historical perspective and details of long term view of income distribution in human societies will be explained. This course will help to examine the political and philosophical perspectives related to the access to resources and their distribution. An overview of global economy will help in exploring the effectiveness of some of the policies that are thought to minimize poverty and to reduce the gap between the rich and poor.

Pre-requisites: Principles of Microeconomics and Principle of Macroeconomics

PPE 4101 Monetary Economics

Monetary Economics is one of the elective courses, designed for students studying Economics as major. The course develops a number of theoretical frameworks for the analysis of domestic economic perspective related to money, market for money, monetary transmission mechanisms, which provides a base for the understanding of classical and Keynesian approaches for monetary theory and their empirical evidence. Second part of the course focuses on the issues of monetary policy implementation in the closed and open economy contexts, like determinants of the price level, rate of inflation, exchange rate in different regimes.

Pre-requisites: Principles of Microeconomics and Principle of Macroeconomics

PPE 4102 Economics of Money, Banking and Financial Markets.

In a globalized world banking and Finance is getting more important now a days. The interaction between banking and financial markets in an economic activity is thus more important. The aim of this course is to provide the in depth knowledge of banking and finance to the undergraduate students. It will focus on different concepts and issues of monetary and fiscal policies, which enhance the financial flows in the economy. In addition, the importance of commercial banking, the role of central bank and capital market will be discussed in the course. After completion of this course the students will gather a good knowledge on banking and financial systems.


PPE 5000: Senior Thesis in Politics, Philosophy and Economics

An intensive research project undertaken in collaboration with a faculty member.

PPE 5001: Senior Thesis in Politics, Philosophy and Economics

Senior Thesis in PPE may be extended to 2 semesters with the permission of the supervising faculty member and the department.

Public Health Studies

PHST 1000: Introduction to Public Health

This course promises to take you on a journey through the science and the art of public health issues, concepts and practice by examining the philosophy, purpose, functions, organization, tools, activities and results of public health. Case studies will enable you to apply your knowledge to real-world local and international public health problems in order to understand how public health strategies contribute to population health. After the course you will possess an overview of this field to help you think about and explore how you can contribute to public health's mission for your community, nation and the world, either through a public
health career or as a knowledgeable, engaged member of society.

**PHST 2001: Nutrition for Health**

This course is for students interested in an overview of nutrition’s contributions to our personal health and ultimately the development of our countries. There is incontrovertible evidence that a healthy diet throughout life plays a key beneficial role in determining optimal growth, development, and health in children, and a healthy, productive life for adults, with poor nutrition having adverse consequences. This course promises to take you on a journey through what we know about the physiological requirements and functions of the nutrients in food that determine our health and disease. Topics include the roles of the nutrients in growth, health maintenance and disease prevention throughout life; nutrients’ dietary sources; intake recommendations as well as choosing a diet for a healthier planet. After the course you will be empowered to apply the logic of science to manage not only your own and your family’s nutritional environment, but also to move toward a career contributing to the design of effective strategies to healthier nutrition for yourself, your family, community, nation and world.

**PHST/BIOL 3005: Principles of Biostatistics**

This is an introductory course of biostatistics that will acquaint the students with the basic concepts of biostatistics and its appropriate uses and common misuses in public health. The course will involve practice in the application of statistical procedures along with introduction to appropriate statistical software. With the completion of the course the students are expected to have a basic understanding of biostatistical approaches in public health, as well as the ability to perform basic biostatistical analyses.

**PHST 3500: Introduction to Epidemiology**

This course will introduce students to basic principles and concepts of epidemiology. The course is designed to provide an overall understanding of descriptive epidemiology, study design, and methodological concerns in epidemiological studies. The format includes lectures, case studies, class discussion, and class exercises. The overarching goal of this course is to give students an understanding of the fundamentals of epidemiology particularly relevant in describing the pattern of disease in population and developing research design to investigate disease etiology, as well as the ability to think critically about epidemiological studies. Moreover, it is important for students to understand how this information is applied to real-world scenarios. At the end of the course the students are expected to have the basic understanding regarding the usefulness of epidemiological measures and methods in public health.

Prerequisite(s): Concurrent enrollment in Principles of BIOL 1004: Biostatistics

**PHST 4000: Research Methods in Epidemiology**

This is an intermediate/advanced level course that focuses on extending the student’s knowledge of epidemiological methods beyond what they have learned in PHST 3500. The course will familiarize the students with advanced concepts of study design, ascertainment of study subjects, questionnaire development, various methodological issues in data analysis and interpretation including bias, measurement error, confounding and effect modification. Selected epidemiological studies including case-control, cohort, environmental and occupation study designs will be covered to highlight study design, exposure assessment, data analysis and interpretation.

Prerequisite(s): Introduction to Epidemiology

**PHST 4001: Data Analysis**

The data analysis course is an intermediate level course to familiarize the students with the theoretical concepts of multivariate data analysis and develop the skills to analyze complex data with the use of statistical software like SAS/SPSS. This course builds on prior knowledge on basic biostatistics (BIOL 1004 or similar) and extends the student’s knowledge beyond univariate analysis. The students are expected to learn the theoretical concepts of ANOVA, multivariate linear, regression, logistic regression and meta-analysis, analyze data applying those concepts, and prepare reports.

Prerequisite(s): Principles of biostatistics.

**PHST 4005: Maternal and Child Health**

Maternal and child health are two areas of public health’s unfinished business for improving the health of our most vulnerable populations across the globe today, particularly in nations where resources are scarce. Two of the 10 Millennium Development Goals aim specifically to improve maternal and child health, and several others, such as gender equality and HIV/AIDS, are critical aspects of Maternal and Child Health. In this upper division course, students will discover the trends, deep roots, multifaceted forces, issues and methods of today’s maternal and child health enterprise. Students will be presented with real-life practical, ethical and theoretical challenges that will develop critical and analytical thinking skills while providing practice models that they can use in their present and future thinking and work so that they will be able to ask the right questions and advocate for, point to and deliver much needed effective, perhaps innovative and evidence-based solutions.

**BIOL 4101: Abbvie Lectures: Scientific Research with Applications in Medicine and Public Health**

Abbott scientists will present practical applications of their scientific research in pharmacology, medical science and public health. Topics include drug discovery and development, regulation of the drug industry, and control of
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disease; the topics complement material studied in the course Human Anatomy and Physiology. Students will be assigned papers to read before a weekly teleconference, during which the research process and outcome will be discussed with the leading scientist. This is a 1-credit course, and assessment will be based on participation in group discussions.
Prerequisite(s): Concurrent enrollment in Human Anatomy and Physiology is required.

PHST 5000: Senior Thesis I Public Health

This required course is the first semester of a one-year public health research project under the supervision of one or two faculty members. Research work may commence as early as during the summer immediately preceding the student's final year of attendance, and continue through the student’s final semester. Students will survey the relevant literature, determine a research question, collect their own data or identify an appropriate data set, manage and analyze the data as appropriate, and interpret the findings. Students will meet periodically with the supervisor(s) to discuss their progress and review the work. These discussions will culminate in a 30-minute research seminar presented at the end of the first semester.

PHST 5001: Senior Thesis II Public Health

This required course, to be taken in the student’s final semester, is a continuation of Senior Thesis I. During this term, the student will, using the public health research project undertaken in the first semester and the feedback from the seminar presented at the end of the term, produce a comprehensive written thesis which will be submitted for assessment at the end of the student’s final term of attendance. Throughout the second term, the student will again meet periodically with her supervisor(s) to guide the thesis preparation.

PHST 5002: Senior Seminar I Public Health

This required course is the first semester of a one-year public health research seminar focusing on student-led seminars discussing and critiquing published articles and reports in different public health areas. It aims to familiarize students with both (a) public health research strategies and sound analytic methods and (b) the structure and writing of good public health reports, while fostering interest in diverse public health issues. Part of the time in- and outside of class will consist of students’ conducting their individual senior research projects with some faculty guidance and with each student presenting her own individual literature review with a progress report on their own work to their classmates during the term.

PHST 5003: Senior Seminar II Public Health

This required course is the second semester of a one-year public health senior research seminar. It will continue to focus most of the scheduled course time on the nature of good public health research and writing in diverse areas, but using a more advanced set of published articles and reports. The students will continue to receive some individual guidance for their own project preparation and present periodic short oral progress reports to the class. The course will culminate in a final presentation by each student of her own senior research project.

Additional Courses

CHEM 1100: Chemistry I (with Lab)

Chemistry I is the first semester of a two-semester series that will cover general, inorganic chemistry topics and prepare you for further studies in scientific majors. I will also emphasize green chemistry theory and highlight chemistry in everyday life and society. This course will consist of lectures, laboratory exercises and a weekly discussion/problem solving session. We will cover topics such as the mole, stoichiometry, the periodic table, various types of chemical reactions, phases of matter, intermolecular forces and bonding theory.

CHEM 1101: Chemistry II (with Lab)

Chemistry II is the continuation of Chemistry I that will cover physical chemistry topics and will help you to prepare yourself for the scientific majors. Students who have successfully completed Chemistry I can only take this course. Similar to Chemistry I, this course will also have lectures, laboratory and a weekly discussion/problem session. This course will cover topics such as thermochemistry, chemical kinetics, chemical equilibrium, acids-bases, solubility, entropy and free energy, electrochemistry and nuclear chemistry. This is a course that requires hard working, continual studying, homework and assignments in order to keep up with the material for successful completion.
Prerequisite(s): Satisfactory completion of Chemistry I

CHEM 2000: Organic Chemistry (with Lab)

The course presents fundamental facts about the chemical properties of organic compounds and is meant to be an introduction to organic chemistry for students who intend to pursue a career in science. Students who have successfully completed Chemistry I and II can only take this course. This course consists of lectures, laboratory experiments and a weekly discussion/reviewing session. It covers topics such as Lewis structures, bonding, hybridization, acids-bases, stereochemistry, and different type of organic reactions mechanism such as electrophilic addition, substitution reactions and nucleophilic addition, substitution reactions. This is a course that requires hard working, continual studying, homework and assignments in order to keep up with the material for successful completion.
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MATH 1000: Calculus I

Calculus I will cover the following concepts: Functions; Limits and Continuity; Differentiation; Application of Derivatives; Integration; Techniques of Integration; Integrals and Transcendental Functions.

MATH 1001: Calculus II

Calculus II is a second semester calculus course for students who have previously been introduced to the basic ideas of differential and integral calculus. It is a continuation of Calculus I. Over the semester we will study First-Order and Second-Order Differential Equations, Infinite Sequence and Series, Vectors and the Geometry of Space, Partial Derivatives and Multiple Integrals. In this course you will learn how to use calculus to understand and model real life situations such as those in business, environmental changes, population growth to name a few. As expected, real life situations are in general very complicated and are difficult to model but with the mathematics in this course we can understand some of the more basic models. The material we take up in this course has applications in physics, chemistry, biology, environmental science, astronomy, economics, statistics, and just about everything else. We want you to leave the course not only with computational ability, but with the ability to use these notions in their natural scientific contexts, and with an appreciation of their mathematical beauty and power.

Prerequisite(s): Satisfactory completion of Calculus I

MATH 1002: Probability and Statistics

This course aims to provide an understanding of the basic concepts in probability, conditional probability and independent events. It will also focus on the random variable, mathematical expectation, and different types of distributions, sampling theory and estimation theory. Another objective of the course is to design a statistical hypothesis about the real world problem and conduct appropriate test for drawing valid inference about the population characteristics. It is inevitable to have the knowledge of hypothesis testing for any research work. The course will provide an opportunity to learn many data analysis software like Statistical Package for Social Science (SPSS), Excel, R or MINITAB to perform simple and sophisticated analyses for large samples. This course is very effective for Economics, Biological science, Public health studies, Environmental studies, Social science, Business studies and many more.

MATH 1010: Introductory Statistics

Statistics Everywhere, Introduction to experiment design and data, Organizing Data Averages and Variation, Introduction to Probability Theory, Normal curves and Sampling distribution, Hypothesis Testing, Correlation and Regression, Chi-Square Test, F and Chi-Square Distributions, Non-parametric Statistics.

MATH 2000: Differential Equations

Differential Equations will cover the following concepts: Introductory concepts : definition and constructions of ordinary differential equations with classification; techniques of solving ordinary differential equations: first order, first degree, and higher degree equations; higher order differential equations: initial and boundary value problems; linear differential equations; power series solutions of linear differential equations; linear transformations, eigenvalues, and eigenvectors.

Pre-Requisites: Satisfactory completion of Calculus I and II.

MATH 3000: Differential Equations

Differential Equations will cover the following concepts: Introductory concepts : definition and constructions of ordinary differential equations with classification; techniques of solving ordinary differential equations: first order, first degree, and higher degree equations; higher order differential equations: initial and boundary value problems; linear differential equations; power series solutions of linear differential equations; linear transformations, eigenvalues, and eigenvectors.

Pre-Requisites: Satisfactory completion of Calculus I and II.

MATH 3001: Linear (advanced) Algebra


Prerequisite(s): Satisfactory completion of Calculus I

MATH 3100 Mathematical Programming

Mathematical Programming (MP) is one of the recent emerging branch of mathematics. It is a new mathematical technique which found such a wide range of practical applications. Within a short period of time since G. Dantzig formulated general linear programming problem and developed simplex method, the method of solving linear programming (LP) problem which is one of the major part of Mathematical Programming (MP).
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LP is a new and important optimization technique emerged in the field of economics and have received a great deal of attention. This is the branch of mathematics which has a wide range of applications in social science problems, such as practical problems in government, military and in industrial operations; as well as management theory. LP considered a special class of programming problems where optimizing function and all its constraints are linear. We will consider LP as main part of our course.
Prerequisite(s): Calculus-1 and Advanced( Linear ) Algebra

PHYS 1100 Physics I

Physics I will cover the following concepts of dynamics: Newton’s law of motion; motion and force; work, energy, and power; linear motion of particle; two dimensional motion; waves and oscillation; momentum of particles; conservation of energy; and application centered with these in the physical world; as well as these concepts of thermodynamics: heat and work; applications of the 1st and 2nd law of thermodynamics; the zeroth law of thermodynamics; kinetics theory of gases; specific heat of gases; equi-partition of energy; mean free path; Maxwell’s distribution; reversible and irreversible process; Carnot’s theorem and cycle; and thermodynamic function.
Prerequisite(s): Satisfactory completion of Calculus I.

PHYS 1101: Physics II

Physics II is a continuation of Physics I and will cover electricity, magnetism and electromagnetic fields and forces. Electromagnetic forces quite literally dominate our everyday experience. The very tiny charge particle does not fall through the floor to the center of the earth rather it is floating on electrostatic force fields, because electromagnetic forces are so enormously strong almost 1040 times stronger than gravity. In our everyday experience, matter is electrically neutral and our direct experience with electromagnetic phenomena is disguised by many subtleties associated with that neutrality. This is very unlike our direct experience with gravitational forces, which is straightforward and unambiguous.
Prerequisite(s): Satisfactory completion of Physics I.

PSYC 3001: Psychology of Human Sexuality

Sexuality can be a source of great pleasure and profound satisfaction. Paradoxically, sexuality can also be a source of guilt and confusion, anger and disappointment, and a means of exploitation and aggression. This course is a broad introduction to the field of human sexuality. We will use biological, social, and psychological approaches to understand human sexuality. Some of the topics we will cover include: historical, cultural, and theoretical perspectives on human sexuality, female/male sexual anatomy, gender, sexuality during development, sexual response and behavior, variations in sexual attraction, orientation, and behavior, contraception, sexual function difficulties and treatment, sexually transmitted diseases, sexual explicit materials and sexual aggression.

PSYC 3201: Social Psychology

How people think, feel, and act is not simply a result of their personalities or predispositions but also a product the social situation in which they find themselves. What others around us think, feel, and do, have a great impact of the way we structure our own thoughts, emotions, and behavior. This is one of the main aspects of Social Psychology. Broadly, this course will cover the following: Making sense of the Self; How people and social situations shape our thoughts, feelings, and actions; how people and the social environments they create influence our attitudes, impressions, and explanations (Social Influence); Pressures to conform to group norms, obeying those in authority and adhering to rules (Social Pressure and Significance of Groups); How we explain others’ behaviors, how we like and dislike others (Impression Formation, Attitudes, Attributions, Attraction and Relationships); Negative Attitudes (Prejudice, Racism); Aggression and Helping Behavior; and Persuasive Communication. The basic principle is that our thoughts and actions do not originate solely or simply from within, but that they are products too of the social situations in which we find ourselves. This course will build on some aspects, such as understanding the Self, taught in the 1st Year (2011/12).

PSYC 3202: Psychology of Gender

The discipline of psychology has historically had an androcentric view of human behavior, assuming that normal behavior can be identified through the study of male behavior and that female behavior is studied to determine how it differs from “the norm.” This course will provide you with an alternative perspective, in which the study of human behavior is just that -- inclusive of all humans, and one in which women’s distinctive experiences are not dismissed as unimportant or considered distorted because they do not fit the male norm.

PSYC / PPE 3208: Political Psychology

Political psychology is an inter-disciplinary field of social science inquiry, with roots in political science and mainly social and cognitive psychology. Political psychologists attempt to understand the psychological underpinnings, roots, and consequences of political behavior. Hence, this field considers the relationship between human thought and political behavior - the psychological account of political phenomena and the political mind. A key theme that will run through the course is the role of emotions on ‘rational’ political decision making. Political psychology has a practical arm. It explores the dynamics of important ‘real-world’ phenomena in ways that provide valuable and useful information about politics and behavior. This helps us understand why political events unfold as they do. This course is divided into three sections – considering
psychological issues behind individual political figures and leadership; institutional behavior; and political perceptions, emotions, and motivated actions of the public. This will be examined mainly in the backdrop of personality and social influence. Thus, the course will address topics such as understanding behaviors of well-known political figures and historical/political events (past and present); voting behavior; media representations; leadership and decision making; public attitude formation; racism and prejudice; conflict, accepting and participating in violence.

**PSYC 3209: Theoretical Approaches to Mental Health and Illness**

This course will explore a range of theoretical approaches to mental health and illness proposed by bio-medical, psychological and sociological perspectives. In the first part of the course, students will examine biological determinants of psychological disorders put forth by genetic and neuroscience paradigms. Following this, the contributions made by psychoanalytic, cognitive and humanistic approaches within the field of psychology will be discussed. Finally, the course will turn to perspectives offered within sociology, including those of social determinism, social constructivism and realism. Students will therefore be encouraged to think critically about constructions and beliefs of mental illness and to develop a holistic and multi-disciplinary understanding of mental health and well-being.

**PSYC / ASIA 3420: Cultural Psychology**

North American psychology has been characterized as “a child of its culture,” and as bound by Western concepts of individualism. Psychology as a field has tended to focus on the behavior of members of North American and Western European countries. Recently, cross-cultural research in psychology has demonstrated that many psychological processes once assumed to be universal (i.e., shared by members of all cultures) are actually quite culture-bound. Although a few topics on psychology have a relatively long history of cross-cultural investigation, psychologists are becoming more aware that all of the topics on psychology must be examined from a broad cultural perspective.

In light of the growing recognition of culture-bound aspects of American psychology, psychologists have increasingly examined ways in which Western psychological concepts can be used in ethnocentric ways, and are attempting to place psychology in a more global, diverse perspective. This course will explore the ways in which psychology is socially constructed. In contrast to the view that psychological processes are essentially the same everywhere, we will examine how psychological processes are inextricably linked to specific social, cultural, and historical contexts. Through discussions, readings, and activities, students can expect to develop a broader, global perception of contemporary psychology and a useful set of critical-thinking tools with which to analyze and evaluate psychology.

The practical component will focus on self-development, self-awareness, and self-confidence. Students will be encouraged to re-evaluate themselves in terms of how they perceive their personal and social world; improve the way they relate to other people in society; and improve their interactions with others in society. This course will help students understand functional leadership, learn to think like leaders and develop skills and competencies in leadership and mentoring roles. Students will also be encouraged to develop their own style of leadership, recognise and capitalise on existing strengths as well as developing key competencies critical to positive and effective leadership. These include self-discipline, positive thinking, confronting disappointment, criticism, and negative peer pressure, and perseverance. Essentially, this course offers rigorous theoretical knowledge on the psychology of leadership, and learning life skills and competencies so that students have essential tools to live better in society.