

# General Education Requirements

## For All Students Who Enter Computer Science Fall 2015 and Spring 2016

The General Education Program at UB focuses on a broad array of skills, knowledge, and issues that the university's faculty considers to be particularly important for all college graduates. The program is intended to help students prepare for success and fulfillment in a continually changing world. General education complements the departmental major. The major provides depth of study in a particular area of specialization and prepares students for certain careers or for advanced study. General Education assures skill mastery in written and oral communication, information technology, quantitative reasoning, and critical thinking as well as requirements in a broad liberal arts array in Arts, Humanities, Social and Behavioral Sciences, American Pluralism, Languages, Natural Sciences, and depth of experience in science or language.

The skills and knowledge areas of general education encompass both fundamental proficiencies that contribute to readiness for entry into a major field of study such as introductory writing, information technology, quantitative reasoning, or basic sciences as well as those expected in a student at an advanced level, such as oral communication and critical thinking. The latter two are embedded in UB's major curricula. To ensure a broad experience however, certain areas of general education are specifically intended to enroll students in disciplines outside their major field of study.

---

### Writing

Complete ENG 101 and ENG 201, as placed, unless exempted.

### Library Skills

Complete the Library Skills Workbook within the first year of study at UB.

### Mathematical Sciences

Complete one course from the following lists.

Additional Courses that Satisfy the Mathematical Sciences Requirement

- MTH 121 and MTH 122 (B.A. Degree) or MTH 131
- MTH 141 and MTH 142 (B.S. Degree)
- MTH 181 Conceptual Mathematics I

### World Civilizations

Complete UGC 111 and UGC 112 World Civilizations I-II. (\*\*See note at end of this section.)

### Natural Sciences

Students must complete a two-course sequence, including at least one semester of laboratory. Allowable two-course sequences are outlined in lists below.

Recommended Course Sequences for Students Who Are Not Meeting a Specific Requirement of a Major

- BIO 129 - BIO 130 Perspectives in Human Biology
- GLY 101 - GLY 102 Global Environmental Science
- PHY 121 - PHY 122 Descriptive Astronomy

Additional Course Sequences that Satisfy the Natural Sciences Requirement

- BIO 200 Evolutionary Biology and BIO 201 Cell Biology
- BIO 200 Evolutionary Biology and BIO 309 Ecology
- CHE 101 - CHE 102 General Chemistry
- CHE 105 - CHE 106 Chemistry: Principles and Applications
- CHE 107 - CHE 108 General Chemistry for Engineers
- GLY 103 - GLY 104 Evolution of the Earth and Solar System
- PHY 101/PHY 151 - PHY 102/PHY 152 College Physics I-II/Lab
- PHY 107 - PHY 108/PHY 158 General Physics I-II/Lab
- PHY 117 - PHY 118/PHY 158 Honors Physics I-II/Lab

### American Pluralism or Cognate (approved equivalent courses)

Complete UGC 211 American Pluralism and the Search for Equality or any one of the following: AAS 261, ARC 211, AHI 390, DMS 213, GEO 231, HIS 161, HIS 162, LIN 200, SOC 211, TH 220. (\*\*See note at end of this section.)

Note: UGC 111 - UGC 112 World Civilizations I-II should be completed first.

## Social and Behavioral Sciences

Complete one 3-credit course offered by APY, CDS, COM, ECO, GEO, LIN, PSC, PSY, SSC, or SOC; or ARC 122, PD 120, PD 212.  
Note: Courses used to satisfy any other general education requirement are excluded.

## Language Requirement

NOTE: See the Foreign Language Placement section of the catalog for appropriate placement level.

For native speakers of English, students must demonstrate elementary-level proficiency in a language other than English by doing one of the following:

- Completing a 2-semester first-year sequence of college-level courses in a language other than English (e.g. Spanish 101-102, Modern Greek 191-192).
- Completing a 1-semester college-level Transitional or Heritage language course (Spanish 104, 171, French 104, German 104, Italian 106, Chinese 104 or 105, Russian 104).
- Achieving a minimum score of 600 on a College Board Foreign Language Achievement Test
- Achieving a minimum score of 3 or 4 (depending upon the language and the test) on an AP test in a foreign language

Native speakers of English and native speakers of other languages may also demonstrate proficiency in a language other than English by doing one of the following:

- Showing a high school diploma from a country whose language of instruction is other than English
- Passing a proficiency examination administered by the department which houses the appropriate language. Romance Languages and Literatures: French, Spanish, Italian and Portuguese; Classics: Latin, Ancient Greek; Jewish Studies: Hebrew; Linguistics: all other languages taught at UB. It is suggested that students contact the relevant department to arrange for the proficiency examination as soon as they are in residence at UB. For speakers of languages not taught at UB, see the College of Arts and Sciences Office of Student Advisement and Services.

*Note: Majors in the following schools and programs are not required to complete language study: Architecture; B.F.A. in Art, Dance, Music Theatre; Bioinformatics and Computational Biology; Biomedical Sciences; Biotechnology; Engineering (except Computer Science); Informatics; Management; Medical Technology; Medicinal Chemistry; Nuclear Medicine Technology; Nursing; Pharmacology and Toxicology; Pharmacy and Pharmaceutical Sciences; Public Health and Health Professions.*

*Note: Some majors and minors require additional semesters of language study.*

## Humanities

Students completing ENG 101 and ENG 201 have met this requirement; other students must complete one 3-credit course offered from AAS, AS, AMS, CL, COL, ENG (excluding ENG 101/ENG 201), FR, GER, GGS, HIS, HMN, ITA, JDS, LLS, PHI, RSP, SPA, TNS, WLP, and other languages.

Note: Courses used to satisfy any other general education requirement are excluded.

## Arts

Complete one 3-credit course offered by ART, AHI, DMS, MTR, MUS, TH, or THD; VS; ARC 121 is also an option. (\*\*See note at the end of this section.)

Note: Courses used to satisfy any other general education requirement are excluded.

## Depth Requirement

Complete any one of the following:

- Third-semester language proficiency (e.g. SPA 151)
- An additional course from the listing of mathematical sciences courses
- UGC 302 or UGC 303 Great Discoveries in Science
- A natural sciences course numbered 200 or higher
- Any one of the following courses: ANA 407, APY 310, APY 328, APY 338, APY 344, APY 345, APY 348, APY 350; ARC 442; CDS 288, CDS 382; GEO 345, GEO 347, GEO 348, GEO 350, GEO 352, GEO 356, GEO 435, GEO 449; MT 402; PSY 351, PSY 402, PSY 434, PSY 435, PSY 436, PSY 439

Note: Courses used to satisfy any other general education requirement are excluded. Transfer courses must be articulated (i.e., matched) to specific UB courses or requirements in order to satisfy UB's Depth Requirement. SUNYGE waivers do not apply toward UB's Depth Requirement. Students may not petition this policy.

*\*\*Note: Students who entered UB with 24 or more transferable credit hours from an institution of higher education other than UB are exempted from the World Civilizations, American Pluralism, and Arts requirements. These credits must have been earned prior to enrollment at UB.*