Mathematics, B.S.

GE CLAS Core

The College of Liberal Arts and Sciences GE CLAS Core requirements provide students with a broad foundation of knowledge and a focused practice of transferable skills necessary for a lifetime of learning.

GE CLAS Core courses are particularly valuable for students making the transition into the University of Iowa. They help students understand the academic expectations of the College of Liberal Arts and Sciences while providing the knowledge and skills needed for more advanced work in the major.

All students in the College of Liberal Arts and Sciences who wish to earn an undergraduate degree—Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Fine Arts (B.F.A.), or Bachelor of Music (B.M.)—must complete the requirements of the GE CLAS Core.

GE CLAS Core Areas and Requirements

The GE CLAS Core has 11 required areas, grouped into three categories. Students must fulfill the requirements in each GE CLAS Core area. The requirements below are for students who entered the University of Iowa during Summer 2017 or after. Students who entered during a previous semester are held to different requirements as indicated on a student's degree audit.

Communication and Literacy:

- Rhetoric [p. 1]: a minimum of 4 s.h.
- World Languages [p. 2]: required credit varies by language (see "World Languages" below)
- Interpretation of Literature [p. 2]: a minimum of 3 s.h.

Natural, Quantitative, and Social Sciences:

- Natural Sciences [p. 5]: a minimum of 7 s.h.; must include one lab
- Quantitative or Formal Reasoning [p. 6]: a minimum of 3 s.h.
- Social Sciences [p. 6]: a minimum of 3 s.h.

Culture, Society, and the Arts:

- Diversity and Inclusion [p. 7]: a minimum of 3 s.h.
- Historical Perspectives [p. 8]: a minimum of 3 s.h.
- International and Global Issues [p. 9]: a minimum of 3 s.h.
- Literary, Visual, and Performing Arts [p. 10]: a minimum of 3 s.h.
- Values and Culture [p. 11]: a minimum of 3 s.h.

Students may count transfer credit and/or credit by exam toward some GE CLAS Core requirements. See CLAS Core Policies for details regarding use of transfer credit, credit by exam, and other policies for how GE CLAS Core requirements may be fulfilled.

Communication and Literacy

Rhetoric

Rhetoric courses develop speaking, writing, listening, and critical reading skills and build competence in research, analysis, and argumentation.

All entering first-year students are required to complete RHET:1030 Rhetoric (4-5 s.h.). Because rhetorical skills lay the foundation for further study at the University, most students register for RHET:1030 during their first year at Iowa. Students in some majors, such as English or journalism and mass communication, enroll in RHET:1030 during their first semester.

Students who must enroll in English as a Second Language (ESL) courses as determined by their English proficiency evaluation must complete all ESL courses before they may register for RHET:1030 Rhetoric.

Students who have transfer credit in composition, speech, and argumentation but have not been granted an A.A. degree must complete the equivalent of RHET:1030 Rhetoric and often must take RHET:1040 Writing and Reading or RHET:1060 Speaking and Reading in addition to their transfer courses in composition and/or speech.

Each entering student's degree audit shows the course(s) that must be completed in order to fulfill the Rhetoric requirement.

The following courses are approved for the Rhetoric area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHET:1030</td>
<td>Rhetoric</td>
<td>4-5</td>
</tr>
<tr>
<td>RHET:1040</td>
<td>Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>RHET:1060</td>
<td>Speaking and Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Transfer of Credit for Rhetoric

Transfer students who have been granted an Associate of Arts (A.A.) degree from an Iowa community college, Waldorf College in Iowa, or Black Hawk College in Illinois have satisfied the Rhetoric requirement.

Transfer credit for students without an A.A. degree is evaluated as follows:

- transfer students who have completed composition I, composition II, and speech at another institution have satisfied the GE CLAS Core Rhetoric requirement of RHET:1030 Rhetoric;
- transfer students who have completed only composition I must complete RHET:1030 Rhetoric at the University of Iowa;
- transfer students who have completed composition I and speech must complete RHET:1040 Writing and Reading at the University of Iowa;
- transfer students who have completed only speech must complete RHET:1040 Writing and Reading at the University of Iowa;
- transfer students who have completed composition I and II or only composition II must complete RHET:1060 Speaking and Reading at the University of Iowa;
- transfer students who have completed any other course at another institution that may be equivalent to RHET:1030 Rhetoric, the University of Iowa Office of Admissions examines the content of the course and decides on equivalency based on the content of that course, conferring with the Department of Rhetoric on the correct equivalency, if necessary.
Interpretation of Literature
Courses in the Interpretation of Literature area focus on the major genres of literature (short and long fiction, nonfiction, poetry, and drama), improving students' abilities to read and analyze a variety of texts. Small group discussions in these courses challenge students to think critically, to share insights, and to listen thoughtfully to the arguments of others.

All students must complete at least 3 s.h. of coursework in the Interpretation of Literature area. The following courses are approved for the area:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSA:1200</td>
<td>Interpretation of Ancient Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL:1200</td>
<td>The Interpretation of Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN:1005</td>
<td>Texts and Contexts: French-Speaking World</td>
<td>3</td>
</tr>
<tr>
<td>FREN:1007</td>
<td>Nature/Ecology French Philosophy and Fiction</td>
<td>3</td>
</tr>
<tr>
<td>WLLC:1510/ASIA:1510</td>
<td>Ghost Stories and Tales of the Weird in Premodern Chinese Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

World Languages
GE CLAS Core courses in World Languages provide the practice of important communication skills in a second language as well as the knowledge of the cultures in which the language is spoken. This in-depth study allows students to better understand how languages as a whole function, encouraging students to learn more about their own first language, including how it creates both inclusion and diversity. To fulfill the GE CLAS Core requirement in World Languages, students may choose one of the following options:

- complete four years of a single world language in high school; or
- achieve the fourth level of proficiency in a world language by completing the appropriate sequence of courses offered at the University of Iowa; or
- achieve the fourth level of proficiency by completing appropriate courses at another college or university or through approved study abroad courses; or
- achieve an equivalent score on a related Advanced Placement, International Baccalaureate, or other approved college-level examination accepted by the University of Iowa and the College of Liberal Arts and Sciences (see Credit By Exam Options on the Office of Admissions website); or
- earn an equivalent score on both a UI written placement test and on a UI oral proficiency exam in a language taught at the University of Iowa (see World Languages Placement Test (WLPT) on the New Student Services website); or
- earn an equivalent score on a proficiency exam in a language that is not taught at the University of Iowa (see Proficiency Examinations for Languages Not Taught at UI on the College of Liberal Arts and Sciences website).

A fourth level of proficiency is equivalent to the successful completion of an intermediate II language course (or of a second-year second semester course, for example) as taught at the University of Iowa. Depending on a student's placement test results and the language taken, a student may need to take four semesters of a language, starting with a beginning course and ending with a second semester intermediate course. Other students may be able to start elsewhere in the language sequence and complete the GE World Language requirement by taking two or three courses. See "World Languages Placement Tests" under Placement Tests on the College of Liberal Arts and Sciences website.

Semester hours earned for these courses vary by language. Students should be sure to take the placement test for the language of interest and should be aware of the course sequence required to fulfill the GE requirement in World Languages for that particular language.

Once the World Languages requirement is completed, a student may earn up to an additional 8 s.h. of college credit while studying a world language. See Furthering Language Incentive Program (FLIP) on the College of Liberal Arts and Sciences website.

Students may use the following language course sequences to fulfill the World Languages requirement. To avoid duplication or regression, consult the appropriate language department before registering for courses.

American Sign Language
Courses in American Sign Language (ASL) are offered by the American Sign Language Program. The following sequence fulfills the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL:1001</td>
<td>American Sign Language I</td>
<td>5</td>
</tr>
<tr>
<td>ASL:1002</td>
<td>American Sign Language II</td>
<td>5</td>
</tr>
<tr>
<td>ASL:2001</td>
<td>American Sign Language III</td>
<td>5</td>
</tr>
<tr>
<td>ASL:2002</td>
<td>American Sign Language IV</td>
<td>5</td>
</tr>
</tbody>
</table>

Students with previous knowledge of American Sign Language should consult the ASL program for placement.

Arabic
Courses in Arabic are offered by the Department of French and Italian. The following sequence fulfills the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB:1001</td>
<td>Elementary Modern</td>
<td>5</td>
</tr>
<tr>
<td>ARAB:1002</td>
<td>Standard Arabic I</td>
<td>5</td>
</tr>
<tr>
<td>ARAB:2001</td>
<td>Intermediate Modern</td>
<td>5</td>
</tr>
<tr>
<td>ARAB:2002</td>
<td>Standard Arabic I</td>
<td>5</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Arabic should consult the department for appropriate placement.

Chinese
Courses in Chinese are offered by the Department of Asian and Slavic Languages and Literatures. For students without previous knowledge of Chinese, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN:1111</td>
<td>First-Year Chinese: First</td>
<td>5</td>
</tr>
<tr>
<td>CHIN:1112</td>
<td>Second Semester</td>
<td>5</td>
</tr>
</tbody>
</table>
Courses in German are offered by the Department of German, Classics, and Slavic Languages and Literatures. Students with previous knowledge of German should consult the department for appropriate placement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN:1001</td>
<td>Elementary German I</td>
<td>4</td>
</tr>
<tr>
<td>GRMN:1002</td>
<td>Elementary German II</td>
<td>4</td>
</tr>
<tr>
<td>GRMN:2001</td>
<td>Intermediate German I</td>
<td>4</td>
</tr>
<tr>
<td>GRMN:2002</td>
<td>Intermediate German II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students may use varied combinations of German language courses approved to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of German may be able to fulfill the requirement by substituting GRMN:1020 Intensive Elementary German or GRMN:2020 Intensive Intermediate German, which may be appropriate for students with strong language learning abilities or experience. The intensive courses may be combined with nonintensive courses to create other sequences that may be used to fulfill the GE CLAS Core World Languages requirement. Consult the department to identify an appropriate course sequence.

Courses in Japanese are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Japanese should consult the department for appropriate placement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS:1001</td>
<td>First-Year Japanese: First Semester</td>
<td>5</td>
</tr>
<tr>
<td>JPNS:1002</td>
<td>First-Year Japanese: Second Semester</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may use varied combinations of Japanese language courses approved to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of Japanese should consult the department for appropriate placement.

Courses in Greek are offered by the Department of Classics. Students without previous knowledge of Greek should fulfill the GE CLAS Core World Languages requirement with the following sequence.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSG:1001</td>
<td>Classical and New Testament Greek I</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSG:1002</td>
<td>Classical and New Testament Greek II</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSG:2001</td>
<td>Second-Year Greek I</td>
<td>3</td>
</tr>
<tr>
<td>CLSG:2002</td>
<td>Second-Year Greek II</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses in Korean are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Korean should consult the department for appropriate placement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSG:1001</td>
<td>Classical and New Testament Greek I</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSG:1002</td>
<td>Classical and New Testament Greek II</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSG:2001</td>
<td>Second-Year Greek I</td>
<td>3</td>
</tr>
<tr>
<td>CLSG:2002</td>
<td>Second-Year Greek II</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses in Japanese are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Japanese should consult the department for appropriate placement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS:1001</td>
<td>First-Year Japanese: First Semester</td>
<td>5</td>
</tr>
<tr>
<td>JPNS:1002</td>
<td>First-Year Japanese: Second Semester</td>
<td>5</td>
</tr>
</tbody>
</table>

Courses in Korean are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Korean, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.
Students with previous knowledge of Russian should consult the department for appropriate placement.

### Latin

Courses in Latin are offered by the Department of Classics. Students without previous knowledge of Latin should fulfill the GE CLAS Core World Languages requirement with the following sequence. Students must take both CLSL:2001 and CLSL:2002 in order to fulfill the World Languages requirement. These courses require a similar knowledge of Latin, but one focuses on poetry and the other on prose. Other world languages permit a student to complete the last courses in the sequence to meet the GE CLAS Core requirement since the final course is more difficult than the previous ones. This is not true with the Latin sequence, and thus, both courses must be successfully completed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSL:1001</td>
<td>Elementary Latin I</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSL:1002</td>
<td>Elementary Latin II</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSL:2001</td>
<td>World of Cicero</td>
<td>3</td>
</tr>
<tr>
<td>CLSL:2002</td>
<td>Golden Age of Roman Poetry</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Latin should consult the department for appropriate placement.

### Portuguese

Courses in Portuguese are offered by the Department of Spanish and Portuguese. Two sequences in Portuguese are approved to fulfill the GE CLAS Core World Languages requirement. All courses are open to entering first-year students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT:2000</td>
<td>Accelerated Elementary Portuguese</td>
<td>5</td>
</tr>
<tr>
<td>PORT:2500</td>
<td>Accelerated Intermediate Portuguese</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may also substitute PORT:2010 Elementary Portuguese I and PORT:2015 Elementary Portuguese II for PORT:2000 in the sequence above.

Students with previous knowledge of Portuguese should consult the department for appropriate placement.

### Russian

Courses in Russian are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Russian should fulfill the GE CLAS Core World Languages requirement with the following sequence.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS:1111</td>
<td>First-Year Russian I</td>
<td>5</td>
</tr>
<tr>
<td>RUSS:1112</td>
<td>First-Year Russian II</td>
<td>5</td>
</tr>
<tr>
<td>RUSS:2111</td>
<td>Second-Year Russian I</td>
<td>4</td>
</tr>
<tr>
<td>RUSS:2112</td>
<td>Second-Year Russian II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Russian should consult the department for appropriate placement.

### Sanskrit

Courses in Sanskrit are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Sanskrit should fulfill the GE CLAS Core World Languages requirement with the following sequence. Each of these courses is open to entering first-year students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAS:2901/CLA:2901</td>
<td>First-Year Sanskrit: First Semester</td>
<td>4</td>
</tr>
<tr>
<td>SOAS:2902/CLA:2902</td>
<td>First-Year Sanskrit: Second Semester</td>
<td>4</td>
</tr>
<tr>
<td>SOAS:3901/CLA:3901</td>
<td>Second-Year Sanskrit: First Semester</td>
<td>3</td>
</tr>
<tr>
<td>SOAS:3902/CLA:3902</td>
<td>Second-Year Sanskrit: Second Semester</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Sanskrit should consult the department for appropriate placement.

### Spanish

Courses in Spanish are offered by the Department of Spanish and Portuguese. For students without previous knowledge of Spanish, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN:1001</td>
<td>Elementary Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN:1002</td>
<td>Elementary Spanish II</td>
<td>5</td>
</tr>
<tr>
<td>SPAN:1501</td>
<td>Intermediate Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN:1502</td>
<td>Intermediate Spanish II</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may use varied combinations of Spanish language courses to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of Spanish may be able to fulfill the requirement by substituting SPAN:1003 Elementary Spanish Review for SPAN:1001 and SPAN:1002 in the sequence above.

The summer course SPAN:1004 Accelerated Elementary Spanish, which combines SPAN:1001 and SPAN:1002, may be appropriate for some students.

The accelerated course SPAN:1503 Accelerated Intermediate Spanish, which combines SPAN:1501 and SPAN:1502, may be appropriate for some students.

The accelerated course SPAN:1505 Intermediate Spanish for Heritage Speakers may be appropriate for other students.

Pappajohn Education Center students may use the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS:1002</td>
<td>Elementary Spanish I</td>
<td>4</td>
</tr>
<tr>
<td>CLAS:1003</td>
<td>Elementary Spanish II</td>
<td>4</td>
</tr>
<tr>
<td>CLAS:1501</td>
<td>Intermediate Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>CLAS:1502</td>
<td>Intermediate Spanish II</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Spanish should take the language placement test in Spanish to help determine proper placement.

### Swahili

Courses in Swahili are offered by the Department of French and Italian. The following sequence fulfills the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAS:2901</td>
<td>First-Year Swahili I</td>
<td>4</td>
</tr>
<tr>
<td>SOAS:2902</td>
<td>First-Year Swahili II</td>
<td>4</td>
</tr>
<tr>
<td>SOAS:3901</td>
<td>Second-Year Swahili I</td>
<td>3</td>
</tr>
<tr>
<td>SOAS:3902</td>
<td>Second-Year Swahili II</td>
<td>3</td>
</tr>
</tbody>
</table>
World Languages requirement. Each of these courses is open to entering first-year students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWAH:1001</td>
<td>Elementary Swahili I</td>
<td>4</td>
</tr>
<tr>
<td>SWAH:1002</td>
<td>Elementary Swahili II</td>
<td>4</td>
</tr>
<tr>
<td>SWAH:2001</td>
<td>Intermediate Swahili I</td>
<td>4</td>
</tr>
<tr>
<td>SWAH:2002</td>
<td>Intermediate Swahili II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Swahili should consult the department for appropriate placement.

**Other Course Sequences**

A student who successfully completes a four-semester world language sequence that has not been approved for the GE CLAS Core may have the sequence substituted for a proficiency test to fulfill the GE CLAS Core requirement.

Students who complete a world language sequence this way should notify the department that offers the sequence; the department will contact Graduation Analysis in the Office of the Registrar, which will update a student's degree audit to show fulfillment of the World Languages requirement.

**Natural, Quantitative, and Social Sciences**

**Natural Sciences**

Courses in the Natural Sciences area explore the scope and major concepts of a scientific discipline. Students learn the attitudes and practices of scientific investigators: logic, precision, experimentation, tentativeness, and objectivity. In courses with a laboratory component, students gain experience in the methods of scientific inquiry.

All students must complete at least 7 s.h. of coursework in the Natural Sciences area, including at least one natural science lab component. The following courses are approved for the area; courses with a lab component are noted "(lab)."

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH:1301</td>
<td>Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ASTR:1070</td>
<td>Stars, Galaxies, and the Universe (with lab 4 s.h.; without lab 3 s.h.)</td>
<td>3-4</td>
</tr>
<tr>
<td>ASTR:1079</td>
<td>Introductory Astronomy Laboratory (lab)</td>
<td>1</td>
</tr>
<tr>
<td>ASTR:1080</td>
<td>Exploration of the Solar System (with lab 4 s.h.; without lab 3 s.h.)</td>
<td>3-4</td>
</tr>
<tr>
<td>ASTR:1085</td>
<td>Citizen Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR:1091</td>
<td>Life in the Universe</td>
<td>3</td>
</tr>
<tr>
<td>ASTR:1771</td>
<td>Introductory Astronomy I: Basic Astrophysics and Planetary Astronomy (lab)</td>
<td>4</td>
</tr>
<tr>
<td>ASTR:1772</td>
<td>Introductory Astronomy II: Stellar, Galactic, and Extragalactic Astronomy (lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL:1140</td>
<td>Human Biology: Nonmajors (lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL:1141</td>
<td>Human Biology: Health Professions (lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL:1251</td>
<td>How the Brain Works (and Why it Doesn't)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL:1260</td>
<td>Plants and Human Affairs</td>
<td>2-3</td>
</tr>
<tr>
<td>BIOL:1261</td>
<td>Introduction to Botany (lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL:1370</td>
<td>Understanding Evolution (formerly Ecology and Evolution)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL:1411</td>
<td>Foundations of Biology (lab)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL:1412</td>
<td>Diversity of Form and Function (lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM:1050</td>
<td>Chemistry of Our World</td>
<td>3</td>
</tr>
<tr>
<td>CHEM:1060</td>
<td>Technology and Society Laboratory (lab)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM:1070</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM:1080</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM:1100</td>
<td>Chemistry in Industry and the Economy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM:1110</td>
<td>Principles of Chemistry I (lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM:1120</td>
<td>Principles of Chemistry II (lab)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM:1160</td>
<td>Principles of Chemistry Lab (lab)</td>
<td>2</td>
</tr>
<tr>
<td>EES:1030/CEE:1030</td>
<td>Introduction to Earth Science (with lab 4 s.h.; without lab 3 s.h.)</td>
<td>3-4</td>
</tr>
<tr>
<td>EES:1031/CEE:1031</td>
<td>Introduction to Earth Science Laboratory (lab; students must have previously completed EES:1030/CEE:1030 without the lab)</td>
<td>1</td>
</tr>
<tr>
<td>EES:1040</td>
<td>Evolution and the History of Life (with lab 4 s.h.; without lab 3 s.h.)</td>
<td>3-4</td>
</tr>
<tr>
<td>EES:1050</td>
<td>Introduction to Geology (lab)</td>
<td>4</td>
</tr>
<tr>
<td>EES:1061/ ANTH:1061/ ASTR:1061</td>
<td>Big Ideas: Evolution of Life on Earth and the Search for Life in the Universe (lab)</td>
<td>4</td>
</tr>
<tr>
<td>EES:1070</td>
<td>Age of Dinosaurs (lab)</td>
<td>4</td>
</tr>
<tr>
<td>EES:1080/ ENVS:1080</td>
<td>Introduction to Environmental Science (with lab 4 s.h.; without lab 3 s.h.; not for students who have taken EES:1085 or ENVS:1085)</td>
<td>3-4</td>
</tr>
<tr>
<td>EES:1085/ ENVS:1085</td>
<td>Fundamentals of Environmental Science (lab; not for students who have taken EES:1080 or ENVS:1080)</td>
<td>4</td>
</tr>
<tr>
<td>EES:1081/ ENVS:1081</td>
<td>Introduction to Environmental Sciences Laboratory (lab)</td>
<td>1</td>
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<tr>
<td>EES:1290</td>
<td>Energy and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>EES:1400</td>
<td>Natural Disasters</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:1020</td>
<td>The Global Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:1021</td>
<td>The Global Environment Lab (lab)</td>
<td>1</td>
</tr>
<tr>
<td>HHP:1100</td>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>HHP:1110</td>
<td>Human Anatomy Laboratory (lab)</td>
<td>1</td>
</tr>
</tbody>
</table>
Quantitative or Formal Reasoning

Courses in the Quantitative or Formal Reasoning area help develop analytical skills through the practice of quantitative or formal symbolic reasoning. Courses focus on presentation and evaluation of evidence and argument; understanding the use and misuse of data; and organization of information in quantitative or other formal symbolic systems, including those used in computer science, linguistics, mathematics, philosophy, and statistics.

All students must complete at least 3 s.h. of coursework in the Quantitative or Formal Reasoning area. Students also may fulfill this GE CLAS Core requirement by completing a course that lists an approved GE CLAS Core course as a prerequisite. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH:1260</td>
<td>PokeMath: The Mathematics of Pokemon Go</td>
<td>3</td>
</tr>
<tr>
<td>MATH:1340</td>
<td>Mathematics for Business</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1350</td>
<td>Quantitative Reasoning for Business</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1380</td>
<td>Calculus and Matrix Algebra for Business</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1440</td>
<td>Mathematics for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1460</td>
<td>Calculus for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1550</td>
<td>Engineering Mathematics I: Single Variable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1850</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHIL:1636</td>
<td>Principles of Reasoning: Argument and Debate</td>
<td>3</td>
</tr>
<tr>
<td>POLI:1050/RELS:1050</td>
<td>Big Ideas: Introduction to Information, Society, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>POLI:1700</td>
<td>Introduction to Political Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSY:2811</td>
<td>Research Methods and Data Analysis in Psychology I</td>
<td>3</td>
</tr>
<tr>
<td>STAT:1010</td>
<td>Statistics and Society</td>
<td>3</td>
</tr>
<tr>
<td>STAT:1020/PSQF:1020</td>
<td>Elementary Statistics and Inference</td>
<td>3</td>
</tr>
<tr>
<td>STAT:1030</td>
<td>Statistics for Business</td>
<td>4</td>
</tr>
<tr>
<td>STAT:2010</td>
<td>Statistical Methods and Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

Social Sciences

Courses in the Social Sciences area focus on human behavior and the institutions and social systems that shape and are shaped by that behavior. Courses provide an overview of one or more social science disciplines, their theories, and their methods.

All students must complete at least 3 s.h. of coursework in the Social Sciences area. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH:1101/IS:1101</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:1401</td>
<td>Language, Culture, and Communication</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2100</td>
<td>Anthropology and Contemporary World Problems</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2136</td>
<td>Race, Place, and Power: Urban Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2261</td>
<td>Human Impacts on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>COMM:1170</td>
<td>Communication Theory in Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>COMM:1174</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>CPH:1400</td>
<td>Fundamentals of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CRIM:1410</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>
CSD:3117/ LING:3117 Psychology of Language 3
CSD:3118/ LING:3118 Language Acquisition 1-3
ECON:1100 Principles of Microeconomics 4
ECON:1200 Principles of Macroeconomics 4
GEOG:1070 Contemporary Environmental Issues 3
GEOG:1090 Globalization and Geographic Diversity 3
GEOG:2110/ GHS:2110 Seven Billion and Counting: Introduction to Population Dynamics 3
GEOG:2910 The Global Economy 3
HIST:1219/ SOC:1219 Big Ideas: Equality, Opportunity, and Public Policy in America 3
HONR:1660 Honors Seminar in Social Sciences 3
JMC:1100 Media Uses and Effects 3
LING:1010 Language and Society 3
LING:1060 Languages of the World 3
POLI:1100 Introduction to American Politics 3
POLI:1200 Introduction to Political Behavior 3
POLI:1300 Introduction to Political Thought and Action 3
POLI:1400 Introduction to Comparative Politics 3
POLI:1401 Introduction to Russian Politics 3
POLI:1445 Introduction to Asian Politics: China 3
POLI:1449 Introduction to European Politics 3
POLI:1500 Introduction to International Relations 3
POLI:1501 Introduction to American Foreign Policy 3
POLI:1600 Introduction to Political Communication 3
POLI:2415/ LAS:2415 Latin American Politics 3
PSQF:2115 Introduction to Counseling Psychology 3
PSY:1001 Elementary Psychology 3
PSY:2301 Introduction to Clinical Psychology 3
PSY:2401 Introduction to Developmental Science 3
PSY:2601 Introduction to Cognitive Psychology 3
SOC:1010 Introduction to Sociology 3-4
SOC:1220 Principles of Social Psychology 3-4
TR:1070 Perspectives on Leisure and Play 3

Culture, Society, and the Arts
Diversity and Inclusion

Courses in the Diversity and Inclusion area help to develop students’ recognition of their positions in an increasingly pluralistic world while fostering an understanding of social and cultural differences. Students reflect critically on their own social and cultural perspectives while increasing their ability to engage with people who have backgrounds or ideas different from their own. Students also explore the historical and structural bases of inequality and the benefits and challenges of diversity.

Transfer credit is not accepted for the Diversity and Inclusion requirement; students must complete this requirement with coursework taken at the University of Iowa.

All students must complete at least 3 s.h. of coursework in the Diversity and Inclusion area. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM:1020/AMST:1030</td>
<td>Introduction to African American Culture</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:1030</td>
<td>Introduction to African American Society</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:1130</td>
<td>The History of African American Film</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:1241/MUS:1741</td>
<td>The Soundtrack of Black America</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:2064/SOC:2064</td>
<td>African American Families: Urban and Suburban</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:2070/COMM:2069</td>
<td>Black Television Culture</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:2500</td>
<td>Black Culture and Experience: Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>AMST:2025</td>
<td>Diversity in American Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2151/GWSS:2151/IS:2151</td>
<td>Global Migration in the Contemporary World</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2165/AMST:2165/NAIS:2165</td>
<td>Native Peoples of North America</td>
<td>3</td>
</tr>
<tr>
<td>ARTS:2100</td>
<td>Printmaking and Politics of Protest</td>
<td>3</td>
</tr>
<tr>
<td>ASIA:2222/GWSS:2222/WLLC:2222</td>
<td>Women in Premodern East Asian Literature</td>
<td>3</td>
</tr>
<tr>
<td>CCCC:2220</td>
<td>Foundations of Critical Cultural Competence</td>
<td>3</td>
</tr>
<tr>
<td>CINE:1195</td>
<td>Video Games and Identity</td>
<td>3</td>
</tr>
<tr>
<td>CINE:1625</td>
<td>Race, Gender, and Sexuality on Screen</td>
<td>3</td>
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<tr>
<td>CLSA:2800</td>
<td>Race and Ethnicity in the Ancient Mediterranean World</td>
<td>3</td>
</tr>
<tr>
<td>COMM:1168</td>
<td>Music and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>COMM:1898/LATS:1898</td>
<td>Introduction to Latina/o/x Communication and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CSD:1200</td>
<td>Intellectual and Developmental Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>
Historical Perspectives

Courses in the Historical Perspectives area help students comprehend the historical processes of change and continuity; develop the ability to generalize, explain, and interpret historical change; and understand the past in its own terms.

All students must complete at least 3 s.h. of coursework in the Historical Perspectives area. The following courses are approved for the area.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH:2320/CLSA:2226</td>
<td>Ancient Art from the Great Pyramids of Egypt to the Colosseum in Rome (GE status effective fall 2021)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH:2920</td>
<td>Introduction to American Art</td>
<td>3</td>
</tr>
<tr>
<td>CLSA:1181/GHS:1181</td>
<td>Ancient Medicine</td>
<td>3</td>
</tr>
<tr>
<td>CLSA:1830</td>
<td>Greek Civilization</td>
<td>3</td>
</tr>
<tr>
<td>CLSA:1840</td>
<td>Roman Civilization</td>
<td>3</td>
</tr>
<tr>
<td>CLSA:2127/JPNS:2127</td>
<td>Global Manuscript Cultures</td>
<td>3</td>
</tr>
<tr>
<td>FREN:3120</td>
<td>French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1010</td>
<td>History Matters</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1016</td>
<td>The History That Made Our World</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1261</td>
<td>American History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1262</td>
<td>American History 1877-present</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1401</td>
<td>The West and the World: Ancient</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1402</td>
<td>The West and the World: Medieval</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1403</td>
<td>The West and the World: Modern</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1601/ASIA:1601</td>
<td>Civilizations of Asia: China from Origins to the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1602/ASIA:1602</td>
<td>Civilizations of Asia: China from the 17th Century to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1604/ASIA:1604</td>
<td>Civilizations of Asia: Japan</td>
<td>3-4</td>
</tr>
<tr>
<td>HIST:1606/ASIA:1606/RELS:1606</td>
<td>Civilizations of Asia: South Asia</td>
<td>3-4</td>
</tr>
<tr>
<td>HIST:1607</td>
<td>Civilizations of Asia: Korea</td>
<td>3-4</td>
</tr>
<tr>
<td>HIST:2461/CLSA:2461/RELS:2361</td>
<td>Middle East and Mediterranean: Alexander to Suleiman</td>
<td>3</td>
</tr>
<tr>
<td>HONR:1610</td>
<td>Honors Seminar in Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>ITAL:2550</td>
<td>Images of Modern Italy</td>
<td>3</td>
</tr>
<tr>
<td>JMC:1200</td>
<td>Media History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>MUS:2301</td>
<td>History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUS:2302</td>
<td>History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL:1033</td>
<td>The Meaning of Life</td>
<td>3</td>
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<tr>
<td>PHIL:1034</td>
<td>Liberty and the Pursuit of Happiness</td>
<td>3</td>
</tr>
<tr>
<td>RELS:1001</td>
<td>Judaism, Christianity, and Islam</td>
<td>3</td>
</tr>
<tr>
<td>RELS:1225/HIST:1025</td>
<td>Medieval Religion and Culture</td>
<td>3</td>
</tr>
<tr>
<td>RELS:1250/HIST:1050</td>
<td>Modern Religion and Culture</td>
<td>3</td>
</tr>
<tr>
<td>RELS:2930/COMM:2079</td>
<td>Digital Media and Religion</td>
<td>3</td>
</tr>
<tr>
<td>RUSS:1531</td>
<td>Traces of Ancient Russian Culture (IX-XVII Centuries): Vikings, Mongols, and Tsars</td>
<td>3</td>
</tr>
<tr>
<td>RUSS:1532</td>
<td>Traces of Ancient Russian Culture (IX-XVII Centuries): Vikings, Mongols, and Tsars</td>
<td>3</td>
</tr>
<tr>
<td>THTR:1400</td>
<td>Theatre and Society: Ancients and Moderns</td>
<td>3</td>
</tr>
<tr>
<td>THTR:1401</td>
<td>Theatre and Society: Romans and Rebels</td>
<td>3</td>
</tr>
<tr>
<td>THTR:2410</td>
<td>History of Theatre and Drama I</td>
<td>3</td>
</tr>
<tr>
<td>THTR:2411</td>
<td>History of Theatre and Drama II</td>
<td>3</td>
</tr>
</tbody>
</table>

**International and Global Issues**

Courses in the International and Global Issues area focus predominantly on countries or issues outside the United States, encouraging students to understand contemporary issues from an international perspective. Students develop knowledge of one or more contemporary global or international issues, gain a greater awareness of varied international perspectives, and improve their skills of analysis and critical inquiry.

All students must complete at least 3 s.h. of coursework in the International and Global Issues area. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH:1046/GEOG:1046/GWSS:1046</td>
<td>Environmental Politics in India</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2100</td>
<td>Anthropology and Contemporary World Problems</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2136</td>
<td>Race, Place, and Power: Urban Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH:2261</td>
<td>Human Impacts on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ARTH:1040</td>
<td>Arts of Africa</td>
<td>3</td>
</tr>
<tr>
<td>FREN:1006</td>
<td>Global Sports and National Cultures</td>
<td>3</td>
</tr>
<tr>
<td>FREN:1510</td>
<td>Cultural Misunderstandings: France and U.S.A.</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:1060</td>
<td>Geography of Asia: From Japan to Pakistan</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:1070</td>
<td>Contemporary Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:1090</td>
<td>Globalization and Geographic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>GEOG:2910</td>
<td>The Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>GHS:2000/ANTH:2103</td>
<td>Introduction to Global Health Studies</td>
<td>3</td>
</tr>
<tr>
<td>GRMN:2720/HIST:2420</td>
<td>Germany in the World</td>
<td>3</td>
</tr>
<tr>
<td>GRMN:4315</td>
<td>German Society Today</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1016</td>
<td>The History That Made Our World</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1403</td>
<td>The West and the World: Modern</td>
<td>3</td>
</tr>
<tr>
<td>HIST:1601/ASIA:1601</td>
<td>Civilizations of Asia: China from Origins to the 17th Century</td>
<td>3</td>
</tr>
</tbody>
</table>
Mathematics, B.S.

HIST:1602/ASIA:1602
Civilizations of Asia: China from the 17th Century to the Present 3

HIST:1604/ASIA:1604
Civilizations of Asia: Japan 3-4

HIST:1606/ASIA:1606/RELS:1606
Civilizations of Asia: South Asia 3-4

HIST:1607
Civilizations of Asia: Korea 3-4

HONR:1620
Honors Seminar in International and Global Issues 3

IS:2000
Introduction to International Studies 3

ITAL:2770
The Mafia and the Movies 3

LING:1040/ANTH:1040
Language Rights 3

POLI:1400
Introduction to Comparative Politics 3

POLI:1401
Introduction to Russian Politics 3

POLI:1445
Introduction to Asian Politics: China 3

POLI:1449
Introduction to European Politics 3

POLI:1500
Introduction to International Relations 3

POLI:1501
Introduction to American Foreign Policy 3

POLI:2415/LAS:2415
Latin American Politics 3

RELS:1130/HIST:1030
Introduction to Islamic Civilization 3

RELS:2852/GWSS:2052
Women in Islam and the Middle East 3

RELS:3855/IS:3855
Human Rights and Islam 3

RUSS:1132
Russia Today 3

RUSS:2050/WLLC:2050
Women from an Unknown Land: The Fight for Independence 3

SPST:2170
Sport and Globalization 3

Literary, Visual, and Performing Arts

Courses in the Literary, Visual, and Performing Arts area provide students with opportunities to appreciate the arts and to analyze them within their historical and theoretical contexts. They also help students develop the analytic, expressive, and imaginative abilities necessary for understanding, appreciating, and creating art.

All students must complete at least 3 s.h. of coursework in the Literary, Visual, and Performing Arts area. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM:1240/</td>
<td>The Art of Listening to Jazz</td>
<td>3</td>
</tr>
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Values and Culture

Courses in the Values and Culture area focus on how culture shapes the human experience and the role of values in society, with students asking fundamental questions regarding the human experience while exploring their own values and beliefs.

All students must complete at least 3 s.h. of coursework in the Values and Culture area. The following courses are approved for the area.

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