**DISCIPLINARY WAYS OF KNOWING**

**Mathematical/Computational Reasoning**

**One Required Course**

The aim of this requirement is to develop the fundamental skills involved in mathematical and computational approaches to problem solving, reasoning, and an understanding of our world. These skills also form the basis for advanced reasoning in many areas and provide a basis for testing logic, solving problems, and evaluating mathematical and computational arguments and evidence in daily life. After completing this requirement, students will be prepared to explore quantitative and computational issues in the natural sciences, the social sciences and the humanities.

The following courses have the MCR (Mathematical/Computational Reasoning) attribute:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISC 1100</td>
<td>Structures of Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CISC 1400</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td>CISC 1600</td>
<td>Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CISC 1800</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1003</td>
<td>Mathematics and Democracy</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1100</td>
<td>Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1203</td>
<td>Applied Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1206</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1700</td>
<td>Mathematical Modelling</td>
<td>4</td>
</tr>
</tbody>
</table>

**Natural Science**

**Two Courses in Sequence: Physical Science and Life Science**

Through core science courses, students will gain understanding of scientific methodology as a way of knowing and an appreciation of the social responsibility and ethics of science. By understanding how reasoning and experimental evidence lead to scientific conclusions, students will develop scientific literacy—the ability to understand the breakthroughs in science, medicine, and technology as educated, creative, responsible citizens. With knowledge of the basic principles of science, students will be able to evaluate the legal, moral, and ethical issues that will affect their lives after they graduate. In the science courses, students will develop skills in critical thinking and discernment; qualitative and quantitative reasoning; written and oral communication; and formulation, analysis, and solution of complex problems.

Students who are not science majors may take modular or integrated courses on various topics. The physical science section, which is taken first, covers energy (kinetic and potential, electromagnetic, thermodynamics), matter (atomic and molecular structure, chemical bonding), and interactions (strong, weak, electromagnetic, gravitational). The life science sections (usually taken second) cover evolution; genetics and genetic engineering; human biology; including nervous and sensory systems; environment; and behavior and learning (classical, operant, and observational). All sections have labs. Alternatively, for those interested in a specific science— including non-science majors— this requirement may be met through a two-semester disciplinary introduction with associated labs.

In summary, students may fulfill this requirement through one of three ways:

1. One course with the PSCI attribute and one course with the LSCI attribute (for non-science majors).
2. A two-course disciplinary introduction sequence. (This option is preferred for science majors who must take such courses anyway.)
3. A two-course sequence (NSCI 1050 & NSCI 1051), for non-science majors only.

**Physical Science courses for Non-science Majors**

The following courses have the PSCI (Physical Science Core) attribute:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1102</td>
<td>Drug Discovery: From the Laboratory to the Clinic</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1104</td>
<td>Chemistry and the Artistic Image</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1109</td>
<td>Chemistry of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1110</td>
<td>Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 1010</td>
<td>Physical Sciences: From Past to Present</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 1020</td>
<td>Physical Science: Today's World</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 2020</td>
<td>An Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1201</td>
<td>Introduction to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1203</td>
<td>Environmental Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1207</td>
<td>Physics of Light and Color</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1242</td>
<td>Science Fiction Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1350</td>
<td>The Physics of Climate Change</td>
<td>3</td>
</tr>
</tbody>
</table>

**Life Science for Non-science Majors**

The following courses have the LSCI (Life Science Core) attribute:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1200</td>
<td>Introduction to Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1600</td>
<td>Introduction to Human Variation</td>
<td>3</td>
</tr>
<tr>
<td>BISC 1000</td>
<td>Life on the Planet Earth</td>
<td>3</td>
</tr>
<tr>
<td>BISC 1001</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 1002</td>
<td>Ecology: A Human Approach</td>
<td>3</td>
</tr>
<tr>
<td>BISC 1010</td>
<td>Foundations of Biology</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 1030</td>
<td>Human Function and Dysfunction</td>
<td>3</td>
</tr>
<tr>
<td>NSCI 1040</td>
<td>People and the Living Environment</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1100</td>
<td>Biopsychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Two-course Sequence (for non-science majors only)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 1050</td>
<td>Health and Disease I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; NSCI 1051</td>
<td>Health and Disease II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Two-Course Disciplinary Introduction Sequences (mainly for science majors)**

**Course**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopsychology</td>
<td>3</td>
</tr>
<tr>
<td>BISC 1403 Internals</td>
<td>5</td>
</tr>
<tr>
<td>&amp; BISC 1413 and Introductory Biology Lab I</td>
<td>5</td>
</tr>
</tbody>
</table>

Updated: 03-03-2024
One Required Course

Faith and Critical Reason

An introduction to fundamental theological issues including the dialectic between religion and modernity that has shaped our cultural heritage, and some of the ways that various cultures and individuals have confronted the pressing questions of meaning in human life. When apposite, comparisons with religious traditions other than Christianity are made.

One Required Course

Fine and Performing Arts

By seeing or hearing visual or musical works and understanding them, students learn to appreciate the non-verbal and how such works both are influenced by and exercise influence on their cultural milieu. The courses take advantage of and encourage students to appreciate the extensive cultural offerings of New York City.

The following courses have the FACC (Fine and Performing Arts) attribute:

One Required Course

Texts and Contexts

The introductory core course in English literature, which may include literature in translation, will teach the arts of literary interpretation by developing techniques of close reading, an appreciation of the relations among literary works and the contexts in which they are written and read, and an ability to write critically about the interplay between text and context. The sections of this course will offer students choice among thematic and topical foci, which will be specified in each section title and context. The sections of this course will offer students choice among thematic and topical foci, which will be specified in each section title and context.
The following courses have the HC (Understanding Historical Change) attribute:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 2000</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>COLI 2000</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1004</td>
<td>Texts and Contexts: Upward Mobility and the Common Good</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2000</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>HPLC 1201</td>
<td>Honors: English</td>
<td>3</td>
</tr>
<tr>
<td>MLAL 1010</td>
<td>Spanish Colonialism Through Film</td>
<td>3</td>
</tr>
<tr>
<td>MLAL 2000</td>
<td>Texts and Contexts</td>
<td>3</td>
</tr>
</tbody>
</table>

Prerequisite: ENGL 1102 Composition II

**Understanding Historical Change**

**One Required Course**

Through the introduction to the discipline of history, students will begin to achieve knowledge of the structure of societies, how they function, and how they change. Each section of the course will consider how to assess evidence, identify and evaluate differing and often contradictory explanations and arguments, and appraise the relative scale and importance of particular changes in the past. Students will be able to choose from different sections of the course, each with the title Understanding Historical Change and a descriptive subtitle, such as Ancient Greece, American History, etc.

The following courses have the TC (Texts and Contexts) attribute:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1450</td>
<td>Understanding Historical Change: South Asian History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1550</td>
<td>Understanding Historical Change: Modern East Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1551</td>
<td>Understanding Historical Change: Representations of China and The West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1600</td>
<td>Understanding Historical Change: Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1650</td>
<td>Understanding Historical Change: The Black Atlantic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>Understanding Historical Change: Mideast</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1750</td>
<td>Understanding Historical Change: Islamic History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1850</td>
<td>Understanding Historical Change: Jews in the Ancient and Medieval World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1851</td>
<td>Understanding Historical Change: Jews in the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1925</td>
<td>Understanding Historical Change: Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>LALS 1400</td>
<td>Understanding Historical Change: Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social Sciences**

**One Required Course**

Students will be introduced to the ways of knowing the characteristics of the social sciences through introductory courses in anthropology, communications, economics, political science, psychology, and sociology. The courses will usually focus on a substantive concern of the social sciences and include historical overviews, consideration of the variety of research methods typically used (especially empirical research), reviews of the major theoretical orientations and models, and real-world implications and applications to practical problems.

The following courses have the SSCI (Social Science Core Requirement) attribute:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 1650</td>
<td>Black Popular Culture</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 1050</td>
<td>Anthropology Focus</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1100</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1300</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1413</td>
<td>Language and Culture</td>
<td>4</td>
</tr>
<tr>
<td>COMC 2175</td>
<td>Persuasion and Public Opinion</td>
<td>4</td>
</tr>
<tr>
<td>COMC 2329</td>
<td>Media Industries</td>
<td>4</td>
</tr>
<tr>
<td>COMC 2377</td>
<td>Mass Communication and Media Effects</td>
<td>4</td>
</tr>
<tr>
<td>COMM 1000</td>
<td>Fundamentals of Communication and Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1010</td>
<td>Introduction to Communication and Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>DTEM 2459</td>
<td>Social History of Communication and Technology</td>
<td>4</td>
</tr>
<tr>
<td>ECON 1100</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1200</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 1761</td>
<td>The Power of News</td>
<td>3</td>
</tr>
<tr>
<td>LING 1500</td>
<td>Introduction to Psycholinguistics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 1100</td>
<td>Introduction to Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 1298</td>
<td>Government and Politics Comparative</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>POSC 1299</td>
<td>Government &amp; Politics: US</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1004</td>
<td>The Mind-Body Connection: Introduction to Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2600</td>
<td>Social Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 2700</td>
<td>Infant and Child Development</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 2710</td>
<td>Adolescent and Adult Development</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 2800</td>
<td>Personality</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 2900</td>
<td>Psychopathology</td>
<td>4</td>
</tr>
<tr>
<td>SOCI 1025</td>
<td>Sociology of American Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1050</td>
<td>Sociology Focus</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1102</td>
<td>Introduction to Sociology. Health Focus</td>
<td>3</td>
</tr>
</tbody>
</table>