The Curriculum

The Chicago curriculum has three components: general education requirements, a concentration program, and electives. General education requirements, which are described below, should be completed by the end of the second year. Concentrations are described in detail in the Concentrations and Courses section of the catalog. Students construct their own program of electives in consultation with their College advisers and faculty counselors. Credit for forty-two quarter courses is required for the undergraduate degree. Students may count each quarter course only once in the degree program of forty-two courses.

General Education

Humanities, Civilization Studies, and the Arts (6 quarters)

An essential component of general education is learning how to appreciate and analyze texts intellectually, historically, and aesthetically. Through this general education requirement, students at Chicago learn how to interpret literary, philosophical, and historical texts in depth; how to identify significant intellectual problems posed by those texts; and how to discuss and write about them perceptively and persuasively. They also learn how to study a visual or performing art form. Finally, students learn how to study texts and art forms within a specific cultural and chronological frame. Students may choose from many options to meet these requirements.

Students take a total of six quarters in humanities and civilization studies—at least two from the humanities sequences on the interpretation of historical, literary, and philosophical texts (see section A below), at least one in the dramatic, musical, or visual arts (see section B below), and at least two from a civilization studies sequence (see section C below).

A. *Interpretation of Historical, Literary, and Philosophical Texts.* All humanities courses that meet general education requirements engage students in the pleasure and challenge of humanistic works through the close reading of a broad range of literary, historical, and philosophical texts. These are not survey courses; rather, they work to establish methods for appreciating and analyzing the meaning and power of exemplary texts. The courses concentrate on writing skills by including special tutorial sessions devoted to the students' writing.

   The core sequences give students the opportunity to focus on a range of issues and texts. Once students begin a sequence, they are expected to remain in the same sequence. A three-quarter sequence in humanities is recommended for students preparing for medical school and for those students who expect to concentrate in the humanities.

   HUMA 11000-11100-11200. Readings in World Literature

   HUMA 11500-11600-11700. Philosophical Perspectives on the Humanities

   HUMA 12000-12100-12200. Greek Thought and Literature

   HUMA 12300-12400-12500. Human Being and Citizen

HUMA 13500-13600-13700. Introduction to Humanities

HUMA 14000-14100-14200. Reading Cultures: Collection, Travel, Exchange

HUMA 16000-16100-16200. Media Aesthetics: Image, Sound, Text

B. *Dramatic, Musical, and Visual Arts*. These courses provide an introduction to methods for analyzing, comprehending, and appreciating works of dramatic, musical, or visual art by examining their formal vocabularies and how these vocabularies are used to create meaning. This objective is met either by the intensive study of selected masterpieces or by producing original works of art, drama, music, or performance. No substitutes may be made for the courses that follow.

ARTH 10100. Introduction to Art

ARTH 14000 through 16999. Art Surveys

ARTH 17000 through 18999. Art in Context

COVA 10100-10200. Visual Language

ISHU 10100. Drama: Embodiment and Transformation

ISHU 10300-10400. Text and Performance

MUSI 10100. Introduction to Western Music

MUSI 10200. Introduction to World Music

MUSI 10300. Introduction to Music: Materials and Design

MUSI 10400. Introduction to Music Analysis and Criticism

C. *Civilization Studies.* Each sequence provides an in-depth examination of the development and accomplishments of one of the world's great civilizations through direct encounters with some of its most significant documents and monuments. Students who have completed (or plan to complete) three quarters of a humanities sequence and one quarter of the dramatic, musical, or visual arts and therefore need only two quarters of civilization studies, may take any of the three quarter sequences either in Autumn/Winter or in Winter/Spring. Students should plan to complete this requirement by the end of their second year in the College, unless they are planning to participate in one of the study abroad programs that feature civilization studies. NOTE: Not all of the sequences that follow are offered every year; consult departmental course listings.

ANTH 20701-20702. Introduction to African Civilization

EALC 10800-10900-11000. Introduction to the Civilizations of East Asia

ECLT 20100-20200-20300. Religion in Western Civilization

HIST 13001-13002 (13003). History of European Civilization

HIST 13100-13200-13300. History of Western Civilization

HIST 13500-13600-13700. America in Western Civilization

HIST 16101-16202-16303. Introduction to Latin American Civilization

HIST 16700-16800-16900. Ancient Mediterranean World

HIST 17300-17400-17500. Science, Culture, and Society in Western Civilization

JWSC 20000-20100-20200. Judaic Civilization

MUSI 12100-12200. Music in Western Civilization

NEHC 20001-20002-20003. History of the Ancient Near East

NEHC 20011 through 20099. Perspectives on Ancient Near Eastern Civilizations

NEHC 20601-20602. Introduction to Islamic Civilization

SALC 20100-20200. Introduction to the Civilization of South Asia

SOSC 24000-241000. Introduction to Russian Civilization

Students may also complete their civilization studies requirement by participating in one of the College's study abroad programs listed below. For more information about these programs, consult the Study Abroad Programs section of this catalog or see *study-abroad.uchicago.edu.*

SOSC 20800-20900-21000. Rome: Antiquity to Baroque (Rome, Italy; Autumn)

SOSC 21300-21400-21500. Western Mediterranean Civilization (Barcelona, Spain; Winter)

SOSC 23001-23002-23003. South Asian Civilization in India (Pune, India; Winter)

SOSC 24302-24402-24502. Latin American Civilization in Oaxaca (Oaxaca, Mexico; Winter)

SOSC 24600-24700-24800. Vienna in Western Civilization (Vienna, Austria; Autumn)

SOSC 26600-26700-26800. African Civilization in Africa (Cape Town, South Africa; Winter)

SOSC 27500-27600-27700. France in Western Civilization (Paris, France; Spring)

SOSC 27501-27601-27701. Civilisation Européenne (Paris, France; Autumn) *PQ: Advanced knowledge of French.*

SOSC 27800-27900-28000. Greek Antiquity and Its Legacy (Athens, Greece; Spring)

Natural and Mathematical Sciences (6 quarters)

Courses and sequences in the natural sciences are designed to explore significant features of the natural universe and to examine the exciting process of scientific inquiry. These courses consider the powers and limitations of diverse forms of scientific observation, scientific reasoning, and natural laws. Mathematical sciences courses develop powers of formal reasoning through use of precise artificial languages.

Students take six quarter courses in the following areas: at least two quarters of physical sciences (see section A and C); at least two in the biological sciences (see section B and C); and at least one in the mathematical sciences (see section D).

Students may meet the natural sciences requirement with a two- or three-quarter sequence in the physical sciences and a two- or three-quarter sequence in the biological sciences, or with four- or six-quarter natural science sequences that integrate the physical and biological sciences requirements. Students meet the mathematical sciences requirement with one or two quarters of computer science, mathematics, or statistics. Students should choose among the following options based on their concentration and/or preparation for the health professions.

A. Physical Sciences Sequences

1. Physical and biological sciences concentrators and students preparing for the health professions must complete chemistry or physics. The third quarter of these yearlong sequences is applied to a student's concentration or electives.

   CHEM 11101-11201/11102-11202 (11301/11302). General Chemistry

   CHEM 12200 (12300). Honors General Chemistry†

   PHYS 12100-12200 (12300). General Physics (Variant A)

   PHYS 13100-13200 (13300). General Physics (Variant B)

   PHYS 14100-14200 (14300). General Physics (Honors)

   † In combination with one quarter of AP or placement credit for CHEM 11101; see Chemistry section of the catalog.

2. These sequences are designed for students who do not plan to concentrate in the physical or biological sciences. Enrollment in sequences with an asterisk (*) is limited to first- and second-year students and entering transfer students.

   PHSC 10900-11000. Science and the Earth*

   PHSC 10900-13400. Past and Future Climate of Earth*

   PHSC 11100-11200. Foundations of Modern Physics

   PHSC 11900-12000 (12700). Introduction to Astrophysics

   PHSC 13200-13300. Paleoclimate, Earth Systems, and the Emergence of Humankind

   PHSC 13400-13500. The Science of Global Environmental Change

B. *Biological Sciences Sequences*

1. Biological sciences concentrators and students preparing for the health professions must complete a Fundamental Sequence. For biological sciences concentrators, the final three quarters of a sequence are applied to the concentration. Nonconcentrators who are preparing for the health professions register for the third quarter of a sequence as an elective.

BIOS 20181-20182 (20183-20184-20185). Cell and Molecular Biology/Genetics

BIOS 20191-20192 (20193-20194-20195). Cell and Molecular Biology/Genetics

2. First- and second-year students who do not plan to concentrate in the biological sciences or prepare for the health professions register for either (1) BIOS 10100 (Core Biology) followed by a topics course (or courses) selected from biological sciences courses numbered 10101 to 19999, or (2) one of the two-quarter sequences (BIOS 10300/10301 or 10400/10401) described in the Biological Sciences section.

C. *Natural Sciences Sequences*

The natural sciences sequences offer students in the humanities and social sciences two choices for meeting the general education requirements in the physical and biological sciences. (These requirements can be met separately, of course.) These sequences are open only to first- and second-year students and to entering transfer students, with preference given to first-year students. Both sequences are at similar levels. Courses must be taken in sequence.

NTSC 10100-10200-10300-10400 (Evolution of the Natural World). This four-quarter sequence meets the general education requirements in the physical and biological sciences. If this sequence is chosen, then students must register for two appropriate courses in the mathematical sciences.

NTSC 12100-12200-12300-12400-12500-12600 (Environmental Sciences). This six-quarter sequence meets the general education requirements in the mathematical sciences as well as the physical and biological sciences.

D. *Mathematical Sciences Courses and Sequences*

These courses develop the powers of formal reasoning through use of precise artificial languages found in mathematics, computer science, statistics, or formal logic. They present broadly applicable techniques for formulating, analyzing, and solving problems, and for evaluating proposed solutions.

Only courses beyond the level of precalculus may be used to meet the mathematical sciences requirement. Students must first register for MATH 10500-10600, or place into MATH 13100, 15100, 16100, or 11200, before taking any of the courses below. NOTE: Both precalculus courses together will be counted as only one elective credit.

Students must meet this requirement with the first two quarters of a calculus sequence if they are preparing for the heath professions or if they anticipate concentration programs in the physical or biological sciences, economics, psychology, or public policy studies. Other restrictions may apply. Students should consult their College adviser or departmental counselor about course choices.

CMSC 10200. Introduction to Programming for the World Wide Web

CMSC 10500-10600-10700. Fundamentals of Computer Programming

CMSC 11000-11100. Multimedia Web Programming as an Interdisciplinary Art

CMSC 15100-15200. Introduction to Computer Science

CMSC 16100-16200. Honors Introduction to Computer Science

MATH 11200-11300. Studies in Mathematics

MATH 13100-13200. Elementary Functions and Calculus

MATH 15100-15200. Calculus

MATH 16100-16200. Honors Calculus

STAT 12500. Quantitative Methods in Environmental Science

STAT 20000. Basic Concepts in Statistics

NOTE: MATH 13100, 15100, and 16100 may be used to meet the mathematical sciences requirement only if MATH 13200, 15200, or 16200 is also taken.

Social Sciences (3 quarters)

These sequences cultivate an understanding of fundamental concepts, theories, and philosophies in the social sciences and demonstrate how the social sciences formulate basic questions and inquire about the nature of social life through acts of imagination as well as through systematic analysis. All of the sequences present some of the main ideas, theories, and inquiries of the social sciences, and show how they enhance our understanding of central issues facing the world. Classical social-scientific texts and methodologies are given close attention in discussion and lecture settings. Courses must be taken in sequence.

“Power, Identity, and Resistance” concentrates on various aspects of power, from the roles of markets and states to the social structures that determine individual, class, and gender inequalities.

“Self, Culture, and Society” studies problems basic to human existence. The sequence starts with the conceptual foundations of political economy, as well as theories of capitalism and modern society. Students then consider the relation of culture, society, and lived experience. Finally, students consider the social and cultural constitution of the person, with examination of race, gender, and sexuality.

“Democracy and Social Science” examines the public role of empirical social science, using a combination of classic texts, quantitative data, and computer resources. These themes are developed through a detailed examination of a major empirical study and applied to a specific policy domain, such as education or urban policy.

“Mind” draws from psychology, anthropology, and philosophy to consider how the human mind functions, focusing on rationality, learning, and language.

"Classics of Social and Political Thought" reads classical texts to investigate criteria for understanding and judging political, social, and economic institutions.

SOSC 11100-11200-11300. Power, Identity, and Resistance
SOSC 12100-12200-12300. Self, Culture, and Society
SOSC 13100-13200-13300. Democracy and Social Science
SOSC 14100-14200-14300. Mind
SOSC 15100-15200-15300. Classics of Social and Political Thought

Concentration Programs (9 to 19 quarter courses)

Concentration programs, ranging from nine to nineteen courses, provide an opportunity to focus on a particular area of inquiry. The number of concentration courses determines the number of electives; together they total twenty-seven courses. Programs that specify thirteen courses require fourteen electives; programs that specify twelve courses require fifteen electives, and so on. More than half of the concentration courses must be taken in residence on the University of Chicago campus.

The following programs are available. Concentrations with asterisks offer "minors" to students in other concentrations. For more information, see "Electives."

In the Biological Sciences Collegiate Division (BSCD):

Biological Sciences
Biological Sciences
Biological Sciences with Specialization in Cellular and Molecular Biology
Biological Sciences with Specialization in Ecology and Evolution
Biological Sciences with Specialization in Immunology
Biological Sciences with Specialization in Microbiology
Biological Sciences with Specialization in Neuroscience

In the Humanities Collegiate Division (HCD):

Ancient Studies
Art History
Cinema and Media Studies
Classical Studies*
Comparative Literature
Early Christian Literature
East Asian Languages and Civilizations
English Language and Literature
Gender Studies
Interdisciplinary Studies in the Humanities
Germanic Studies*
Jewish Studies
Linguistics
Medieval Studies
Music
Near Eastern Languages and Civilizations*
Philosophy
Philosophy
Philosophy and Allied Fields
Religion and the Humanities
Romance Languages and Literatures*
Slavic Languages and Literatures*
South Asian Languages and Civilizations
Visual Arts

In the New Collegiate Division (NCD):

Environmental Studies
Fundamentals: Issues and Texts
Law, Letters, and Society
Religious Studies
Tutorial Studies

In the Physical Sciences Collegiate Division (PSCD):

Biological Chemistry
Chemistry
Computer Science
Geophysical Sciences
Mathematics
Applied Mathematics
Mathematics
Mathematics with Specialization in Computer Science
Mathematics with Specialization in Economics
Physics
Physics
Physics with Specialization in Astrophysics
Statistics

In the Social Sciences Collegiate Division (SSCD):

African and African-American Studies
Anthropology
Economics
Geography
History
History, Philosophy, and Social Studies of Science and Medicine
Human Development
International Studies
Latin American Studies
Political Science
Psychology
Public Policy Studies
Russian Civilization
Sociology
South Asian Studies

Electives (8 to 18 quarter courses)

Elective courses may be taken in any subject matter or discipline, including the same discipline as the student's concentration. A minimum of eight elective courses is generally required.

When MATH 10500-10600 are required, both precalculus courses together will be counted as only one elective. Language credit, whether it is earned by course registration or examination, is usually counted toward electives, unless a concentration requires or permits language courses or credit as part of the concentration.

Some concentrations offer minors to students in other fields of study. For requirements please see descriptions of the concentrations noted above. A minor requires five to seven courses. Courses in a minor *cannot be* (1) double-counted with concentration courses or with other minors or (2) counted toward general education requirements. Courses in a minor must be taken for quality grades, and more than half of the requirements for the minor must be met by registering for courses bearing University of Chicago course numbers.

Up to six credits earned by examination (Advanced Placement and International Baccalaureate Programme tests taken in high school, and Placement Tests taken during Orientation) may be used as electives. For more information, see the section "Course Credit and Credit by Examination" elsewhere in this catalog.

Other College Requirements

Language Competence

Students are required to demonstrate competency equivalent to one year of college-level study in a language other than English before graduation. The requirement is to demonstrate an all-skills competence: reading, writing, listening, and (where appropriate) speaking. This standard recognizes that levels of skill and ability achievable in the equivalent of one year of study will vary from language to language. Competency examinations are administered several times each academic year; students may also demonstrate competency with AP scores of 3 or above. For more details, see *dos-college.uchicago.edu/information/languagerequirement.html.* Courses and examinations are offered in the following languages:

Akkadian
American Sign Language
Arabic
Armenian
Assyrian
Babylonian
Bangla (Bengali)
Bosnian/Croatian/Serbian
Chinese (literary and modern)
Czech
Ancient Egyptian
French
German
Greek (classical)
Hebrew (modern and classical)
Hindi
Hittite
Italian
Japanese
Kazakh
Korean
Latin
Macedonian
Marathi
Norwegian
Pali
Persian
Polish
Portuguese
Russian
Sanskrit
Spanish
Swahili
Tamil
Tibetan
Turkish
Urdu
Uzbek
Yiddish

Students are strongly urged to complete the College language requirement in the first two years. After meeting the College language competency requirement, students are urged to work toward an Advanced Language Proficiency Certificate. To qualify to sit for the three-hour proficiency examination, students are required to complete a minimum of intermediate and advanced language study at levels set by the departments and spend a quarter abroad in an intensive language program approved by the University of Chicago. More detailed information is available on the following Web site: *dos-college.uchicago.edu/information/language-certificate.html.*

Physical Education (3 quarters)

The physical education program is designed to cultivate physical fitness, basic athletic skills, and an appreciation of the value of recreational physical activity. Courses available to meet this requirement include

Aikido
Archery
Badminton
Ballet (elementary and intermediate)
Community First Aid and Safety (American Red Cross—ARC)
CPR for the Professional Rescuer (ARC)
Emergency Response (ARC)
First Aid—Responding to Emergencies (ARC)
Golf
Jazz Dance
Lifeguard Training (ARC)
Modern Dance (elementary and intermediate)
Movement Improvisation
Personal Fitness (conditioning, free weights, jogging, step aerobics, walking, water aerobics, and weight training)
Racquetball
Social Dance (elementary and intermediate)
Swimming (novice, elementary)
Tennis (elementary, intermediate, and advanced)

Students normally take three quarters of physical education in their first year. A physical fitness classification test and swimming test will be given during Orientation. Depending on their physical fitness classification test scores, students may place out of one, two, or three quarters of physical education. Students who do not pass the swimming test must take one quarter of swimming. Physical education is required for graduation. However, physical education courses are not included among the forty-two academic courses counted toward a degree and they are not counted toward the number of courses that determine full- or part-time status. For details, *see www.athletics.uchicago.edu.*