

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, or music. NOTE: No substitutes may be made for the courses that follow unless students have received a score of 4 or 5 on the AP art history examination. These students may meet this requirement with an upper-level art history course.

ARTH 10100. Introduction to Art

ARTH 14000 through 16999. Art Surveys

ARTH 17000 through 18999. Art in Context

COVA 10100-10200. Visual Language

GSHU 10100. Drama: Embodiment and Transformation

GSHU 10300-10400. Text and Performance

GSHU 25200. Shakespeare in Performance

GSHU 25700. Advanced Shakespeare Scene Study

GSHU 26600. Playwriting

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 many 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 20701-20702-20703. Introduction to African Civilization

ECLT 20100-20200-20300. Religion in Western Civilization

HIST 13001-13002. History of European Civilization

HIST 13100-13200-13300. History of Western Civilization

HIST 13500-13600-13700. America in Western Civilization

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HIST 13900-14000-14100. Introduction to Russian Civilization
HIST 15100-15200-15300. Introduction to the Civilizations of East Asia
HIST 16100-16200-16300. Introduction to Latin American Civilization
HIST 16700-16800-16900. Ancient Mediterranean World
HIST 17300-17400-17501/17502. 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 20211-20212-20213. Near Eastern Civilization
NEHC 20601-20602. Introduction to Islamic Civilization
SALC 20100-20200. Introduction to the Civilization of South Asia

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. Mumbai in South Asian Civilization
(Mumbai, India; Winter)
SOSC 24300-24400-24500. Buenos Aires in Latin American Civilization
(Buenos Aires, Argentina; 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. French Civilization (Paris, France; Spring)
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 12100-12200 (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)

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 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

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topical course (or courses) selected from biological sciences courses numbered 10101 to 19999, or (2) one of the two-quarter sequences (BIOS 10200/10201 or BIOS 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 health 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. Fundamentals of Computer Programming

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

CMSC 11500-11600-11700. Introduction to Computer Programming

CMSC 12500-12600. Honors Introduction to Computer Programming

MATH 11200. 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. Elementary Statistics

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

"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 in relation to the conceptual foundations of political economy, theories of the individual and society, and interpretations of culture. "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. Courses must be taken in sequence.

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:

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 Microbiology
Biological Sciences with Specialization in Neuroscience

In the Humanities Collegiate Division (HCD):

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

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	<i>Mathematics with Specialization in Economics</i>
Chemistry	Physics
Computer Science	<i>Physics</i>
Geophysical Sciences	<i>Physics with Specialization in Astrophysics</i>
Mathematics	Statistics
<i>Applied Mathematics</i>	
<i>Mathematics</i>	
<i>Mathematics with Specialization in Computer Science</i>	

In the Social Sciences Collegiate Division (SSCD):

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

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/language/requirement.html. Courses and examinations are offered in more than thirty languages:

Akkadian	Hebrew (modern and classical)	Polish
American Sign Language	Hindi	Portuguese
Arabic	Hittite	Russian
Assyrian	Italian	Sanskrit
Babylonian	Japanese	Serbian/Croatian
Bangla (Bengali)	Korean	Spanish
Chinese (literary and modern)	Latin	Swahili
Czech	Macedonian	Tamil
Ancient Egyptian	Norwegian	Tibetan
French	Pali	Turkish
German	Persian	Urdu
Greek (classical)		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	Modern Dance (elementary and intermediate)
Archery	Movement Improvisation
Ballet (elementary and intermediate)	Personal Fitness (conditioning, free weights, jogging, step aerobics, walking, water aerobics, and weight training)
Community First Aid and Safety (American Red Cross—ARC)	Racquetball
CPR for the Professional Rescuer (ARC)	Social Dance (elementary and intermediate)
Emergency Response (ARC)	Swimming (novice, elementary)
First Aid—Responding to Emergencies (ARC)	Tennis (elementary, intermediate, and advanced)
Golf	
Jazz Dance	
Lifeguard Training (ARC)	

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.uchicago.edu/student/athletics.

Degree Program Worksheet

GENERAL EDUCATION (15 courses). *General Education courses must be taken for quality grades.*

Social Sciences (3)	Art, Drama, (1–2) or Music	Humanities (2–3)	Civilization (2–3)
1. _____	1. _____	1. _____	1. _____
2. _____	(2. _____)	2. _____	2. _____
3. _____		(3. _____)	(3. _____) <u>9</u>

A total of 6 of the following courses must be taken: 1 or 2 art, drama, or music; 2 or 3 humanities; and 2 or 3 civilization.

Mathematics (1–2) [†]	Physical Sciences (2–3) [†]	Biological Sciences (2–3) [†]	
1. _____	1. _____	1. _____	<i>1 or 2 mathematics, 2 or 3 physical sciences, and 2 or 3 biological sciences courses must be taken for a total of 6.</i>
(2. _____)	2. _____	2. _____	
<i>If calculus is used to fulfill the mathematics requirement, 2 quarters are required.</i>	(3. _____)	(3. _____)	

CONCENTRATION (9–19 courses)* _____

1. _____	5. _____	9. _____	13. _____	17. _____
2. _____	6. _____	10. _____	14. _____	18. _____
3. _____	7. _____	11. _____	15. _____	19. _____
4. _____	8. _____	12. _____	16. _____	_____

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ELECTIVES (8–18 courses)[‡]

1. _____	5. _____	9. _____	13. _____	17. _____
2. _____	6. _____	10. _____	14. _____	<i>Concentration plus elective courses must total 27.</i>
3. _____	7. _____	11. _____	15. _____	
4. _____	8. _____	12. _____	16. _____	

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COLLEGE LANGUAGE REQUIREMENT[†] **PHYSICAL EDUCATION REQUIREMENT[†]**

Satisfied by _____ Completed _____

TOTAL REQUIRED 42

[†] Credit may be granted by examination.

[‡] Credit for no more than six electives may be gained by examination.

* More than half of the concentration courses must be taken on campus at the University of Chicago.