
BSA CORE

BSA CORE REQUIREMENTS

The BSA Core is a distinctive core curriculum that provides a foundation in humanities, social sciences, natural sciences, and mathematics. In addition, students are required to fulfill a freshman research seminar requirement, a senior capstone project, and a computing skills workshop.

BSA Core Requirements (13 courses, 117 units minimum)

1. Writing/Expression (1 course, 9 units, 76-101 required)
2. Cultural Analysis (1 course, 9 units minimum)
3. Economic, Political, & Social Institutions *OR* Cognition, Choice & Behavior (1 course, 9 units minimum)
4. Two additional courses from one of the following departments: English, History, Modern Languages, Philosophy, or Psychology (2 courses, 18 units)
5. Mathematics (2 courses, 20 units, 21-120 and 21-122 required)
6. Science (3 courses, 31 units, 03-121, 09-105, and 33-111 required)
7. BXA Freshman Research Seminar (1 course, 9 units, 62-190 required)
8. BXA Capstone Project (1 course, 9 units, 62-400 *OR* 2 courses, 18 units, 62-401 & 62-402)
9. University Requirement: Computing @ Carnegie Mellon (1 mini-course, 3 units, to be completed in first semester)

1. Writing/Expression (1 course, 9 units)

Broadly considered, language is a tool used to communicate, as well as a way to organize non-visual and non-mathematical thinking. This requirement focuses on the social nature of language and the ways in which writing constitutes thinking.

76-101 Interpretation and Argument - REQUIRED
(various topics by section) <http://english.cmu.edu/degrees/courses/courses.html>

2. Cultural Analysis (1 course, complete 9 units minimum)

This category explores definitions of culture and the role culture plays in producing different actions and institutions as well as the roles of institutions, systems and human actions in shaping cultural contexts. Listed below are examples of courses that meet the requirement for this category.

57-173 Survey of Western Music History
70-342 Managing Across Cultures *
76-241 Introduction to Gender Studies
79-011 AP European History**
79-015 AP World History**
79-104 Introduction to World History
79-113 Culture and Identity in American Society
79-207 The Development of European Culture
79-240 Development of American Culture
79-241 African-American History I

BSA CORE, CONTINUED

Continued required courses for Cultural Analysis

79-242	African-American History II
79-255	Irish History
79-261	Chinese Culture and Society
79-281	Introduction to Religion
79-311	Introduction to Anthropology
79-330	Medicine and Society
79-332	Medical Anthropology
79-345	The Roots of Rock & Roll
79-368	Poverty, Charity, and Welfare
80-100	Introduction to Philosophy
80-226	Revolutions in Science
80-250	Ancient Philosophy
80-253	Continental Philosophy
82-2xx	Any 200 level or greater course from Modern Languages

* Indicates co-requisites and/or prerequisites required.

** Indicates credit is based on the AP Credit Policy.

3. Economic, Political & Social Institutions *OR* Cognition, Choice & Behavior (1 course from either category, complete 9 units minimum)

Economic, Political & Social Institutions

This category examines the ways in which institutions organize individual preferences and actions into collective outcomes using model-based reasoning.

36-303	Sampling, Survey and Society *
70-332	Business, Society and Ethics *
70-420	Entrepreneurship for Scientists
73-011	AP Economics: Macro **
73-012	AP Economics: Micro **
73-013	AP Economics **
73-100	Principles of Economics
73-150	Microeconomics *
73-200	Macroeconomics *
79-330	Medicine and Society
79-331	Body Politics: Women and Health in America
79-332	Medical Anthropology
79-335	Drug Use and Drug Policy
79-374	American Environmental History: Critical Issues
79-392	History of Modern Warfare
80-135	Introduction to Political Philosophy
80-136	Social Structure, Public Policy & Ethics
80-226	Revolutions in Science
80-235	Political Philosophy
80-245	Medical Ethics
80-330	Research Ethics
80-341	Computers, Society and Ethics

BSA CORE, CONTINUED

Continued required courses for Economic, Political & Social Institutions *OR* Cognition, Choice & Behavior

88-011	AP Government & Politics: Comparative **
88-012	AP Government & Politics: US **
88-104	Decision Processes in American Political Institutions
88-205	Comparative Politics

* Indicates co-requisites and/or prerequisites required.

** Indicates credit is based on the AP Credit Policy.

Cognition, Choice, and Behavior

This category use model-based analysis to broaden an understanding of human thinking, choices, and behavior on an individual basis across a variety of settings.

80-130	Introduction to Ethics
80-150	Nature of Reason
80-180	Nature of Language
80-208	Critical Thinking
80-220	Philosophy of Science
80-221	Philosophy of Social Science
80-241	Ethical Judgments in Professional Life
80-242	Conflict and Dispute Resolution
85-011	AP Psychology **
85-102	Introduction to Psychology
85-211	Cognitive Psychology
85-221	Principles of Child Development
85-241	Social Psychology
85-261	Abnormal Psychology
85-421	Language and Thought
88-120	Reason, Passion and Cognition

** Indicates credit is based on the AP Credit Policy.

4. Complete TWO additional courses from one of the following departments (2 courses, complete 18 units minimum)

- English
- History
- Modern Languages
- Philosophy
- Psychology

5. Mathematics (2 courses, 20 units)

Complete these two courses in Calculus:

21-120	Differential & Integral Calculus
21-122	Integration, Differential Equations, and Approximation

BSA CORE, CONTINUED

6. Science (3 courses, 31 units)

Complete the following science courses:

03-121 Modern Biology
09-105 Introduction to Modern Chemistry
33-111 Physics for Science Students I

7. BXA Freshman Research Seminar (1 course, 9 units)

This course introduces freshmen and sophomore students in the Bachelor of Humanities and Arts (BHA), Bachelor of Science and Arts (BSA), and Bachelor of Computer Science and Arts (BCSA) Programs to research methodology. It examines the two main paradigms that form the basis of research in various fields of inquiry: 1) the systematic, scientific, or positivist approach, and 2) the qualitative, ethnographic, and ecological or naturalistic approach. This course is taught by the director with the participation of guest lecturers.

62-190 BXA Freshman Research Seminar - REQUIRED

8. BXA Capstone Project (1-2 courses, complete 9 units minimum)

The goal of the BXA Capstone Project is to give a BSA student the opportunity to weave together the interdisciplinary elements of their curricula into an integrated project. The project's goals are based on the student's curriculum that is based in part on their interdisciplinary "vision" in the arts and physical and natural sciences.

62-400 BXA Semester Capstone Project (one-semester, fall or spring)

or

62-401 & 62-402 BXA Capstone Project I (fall) & BXA Capstone Project II (spring)

9. University Requirement (1 mini-course, 3 units)

This is a mini-course, pass/no credit, to be completed in the 1st semester.

99-10x Computing @ Carnegie Mellon (99-101, 99-102, 99-103)