BCSA General Education

BCSA General Education (Gen Ed) Requirements

The BCSA General Education is a distinctive core curriculum that provides a foundation in humanities, social sciences, natural sciences, and mathematics. In addition, students are required to fulfill BXA-specific courses.

BCSA General Education Requirements (15 courses, 121 units minimum)

1. Writing (1 course, 9 units, 76-101 required)
2. Cultural Analysis (1 course, 9 units minimum)
3. Mathematics (2 courses, 19 units minimum, 21-120 and either 21-122 or 21-241 required), Probability (1 course, 9 units minimum required)
4. Science (2 courses, 18 units minimum)
5. Engineering (In consultation with your academic advisor, an engineering course could substitute for one of the two Science requirements)
6. Economic, Political, and Social Institutions or Cognition, Choice and Behavior (1 course, 9 units minimum)
7. One additional course from one of the following departments: English, History, Modern Languages, Philosophy, or Psychology (1 course, 9 units minimum)
8. University Requirement (1 course, 3 units, 99-101 or 99-102 required)
9. BXA Required Courses (5 courses, 36 units minimum, 52-190 or 52-291, 52-391, 52-392, 52-401, 52-402)

1. Writing (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 (various topics by section) 9
http://www.cmu.edu/dietrich/english/first_year/index.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 * 9
70-342 Managing Across Cultures * 9
76-227 Comedy 9
76-232 Introduction to African American Literature * 9
76-239 Introduction to Film Studies * 9
76-241 Introduction to Gender Studies * 9
79-104 Global Histories 9
79-207 Development of European Culture 9
79-222 Between Revolutions: The Development of Modern Latin America 9
79-226 African History: Earliest Times to 1780 9
79-230 Arab-Israeli Conflict and Peace Process since 1948 9
79-240 The Development of American Culture 9
Continued required courses for Cultural Analysis

- 79-241 African American History: Africa to the Civil War 9
- 79-242 African American History: Reconstruction to the Present 9
- 79-255 Irish History 6
- 79-262 Modern China 9
- 79-282 Europe and the World since 1800 9
- 79-345 The Roots of Rock and Roll 9
- 79-350 Early Christianity 9
- 79-395 The Arts in Pittsburgh 9
- 79-396 Music and Society in 19th and 20th Century Europe and the U.S. 9
- 80-100 Introduction to Philosophy 9
- 80-250 Ancient Philosophy 9
- 80-251 Modern Philosophy 9
- 80-253 Continental Philosophy 9
- 80-254 Analytical Philosophy 9
- 80-255 Pragmatism 9
- 80-261 Empiricism and Rationalism 9
- 80-276 Philosophy of Religion 9
- 82-273 Introduction to Japanese Language and Culture 9
- 82-293 Introduction to Russian Culture 9
- 82-303 Introduction to French Culture * 9
- 82-304 The Francophone World * 9
- 82-333 Introduction to Chinese Language and Culture * Var.
- 82-342 Spain: Language and Culture * 9
- 82-343 Latin America: Language and Culture * 9
- 82-344 U.S. Latinos: Language and Culture * 9
- 82-345 Introduction to Hispanic Literary and Cultural Studies * 9

* Indicates co-requisites and/or prerequisites required.

3. Mathematics & Probability (3 courses, 29 units minimum)
Choose two mathematics courses (20 units minimum):

- 21-120 Differential and Integral Calculus 10
- 21-122 Integration and Approximation 10
- or 21-241 Matrices and Linear Transformations 10

Choose one probability course (9 units minimum):

- 15-359 Probability and Computing 12
- 21-325 Probability 9
- 36-217 Probability Theory and Random Processes 9
- 36-225 Introduction to Probability Theory 9
4. **Science (2 courses, 18 units minimum)**
Choose two courses from the following list:

- 03-121 Modern Biology 9
- 09-105 Introduction to Modern Chemistry I 10
- 21-259 Calculus in Three Dimensions 9
- 33-111 Physics I for Science Students 12

5. **Engineering**
In consultation with your academic advisor, an engineering course could substitute for one of the two Science requirements.

6. **Economic, Political and Social Institutions or Cognition, Choice, and Behavior (1 course from either category, complete 9 units minimum)**

**Economic, Political and Social Institutions**
This category examines the ways in which institutions organize individual preferences and actions into collective outcomes using model-based reasoning.

- 19-101 Introduction to Engineering and Public Policy * 12
- 36-303 Sampling, Survey and Society * 9
- 70-332 Business, Society and Ethics * 9
- 73-100 Principles of Economics 9
- 73-230 Intermediate Microeconomics * 9
- 73-240 Intermediate Macroeconomics * 9
- 73-300 History of American Public Policy 9
- 79-320 Women, Politics, and Protest 9
- 79-331 Body Politics: Women and Health in America 9
- 80-135 Introduction to Political Philosophy 9
- 80-136 Social Structure, Public Policy & Ethics 9
- 80-244 Environmental Ethics 9
- 80-245 Medical Ethics 9
- 80-341 Computers, Society and Ethics 9
- 88-104 Decision Processes in American Political Institutions 9
- 88-220 Policy Analysis I 9

* Indicates co-requisites and/or prerequisites required.