

BESA General Education

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BESA GENERAL EDUCATION

(11 courses, 90-92 units minimum)

- Writing (1 course, 9 units, 76-101 required)
- Mathematics (2 courses, 20 units, 21-120 and 21-122 required)
- Science and Technology (2 courses, 22-24 units, programming course, 33-141 required)
- University Requirement (1 course, 3 units, 99-101 required)
- BXA Required Courses (5 courses, 36 units, 52-190, 52-291, 52-392, 52-401, 52-402)

Writing (1 course, 9 units)

		Units
76-101	Interpretation and Argument -First-year	9
or 76-102	Advanced First Year Writing: Special Topics	
or 76-106	Writing about Literature, Art and Culture	
& 76-107	and Writing about Data	
& 76-108	and Writing about Public Problems	

All undergraduate students must complete the First-Year Writing requirement—the Department of English does not accept any Advanced Placement exemptions. This requirement can be completed in two different ways. Enroll in one of two full-semester courses 101 or 102 (by invitation only), 9 units, or enroll in two of three half-semester mini courses (back-to-back within a single semester) 106/107/108, 4.5 + 4.5 units.

Mathematics (2 courses, 20 units)

21-120	Differential and Integral Calculus (prerequisite: 21-090)	10
21-122	Integration and Approximation	10

Science and Technology (2 courses, 22-24 units)

15-110	Principles of Computing (15-112 is required for ECE. Choice of 15-110 or 15-112 for CivE, EnvE, MSE and MechE. Choice of 15-110, 15-112 or 02-120 with advisor approval for BME and ChemE.)	10
or 15-112	Fundamentals of Programming and Computer Science	
or 02-120	Programming for Scientists	
33-141	Physics I for Engineering Students	12

University Requirement (1 course, 3 units)

This foundational pass/no pass course is to be completed online in the first semester to develop core competency skills.

99-101	Core@CMU -Fall, First-year (section B; pass/no pass)	3
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BXA Required Courses (5 courses, 36 units)

BXA-specific courses give students the opportunity to integrate their areas of concentration by focusing on interdisciplinary approaches and arts-based research techniques.

52-190	BXA Seminar I: Building the Wunderkammer - Spring, First-year (mini-3)	4.5
52-291	BXA Seminar II: Transferring Knowledge -Spring, Sophomore year (mini-4)	4.5
52-392	BXA Seminar III: Deconstructing Disciplines - Spring, Junior year	9
52-401	BXA Seminar IV: Capstone Project Research -Fall, Senior year	9
52-402	BXA Seminar V: Capstone Project Production - Spring, Senior year	9