

# Boston College Human-Centered Engineering: Sample Course Schedule

Key: **Math/Science**   **Engineering**   **Core**   **Language**

First-Year Fall (16 Credits)		First-Year Spring (16 Credits)	
Calculus I (Math Core)	4	Calculus II	4
Intro to Physics I (Natural Science Core)	4	Engineering Analysis Lab	2
Physics Modeling and Analysis Lab	2	Engineering Computation and Programming	3
Innovation Through Design Thinking <u>OR</u> Making the Modern World	3	Intro to Human-Centered Engineering and Design	4
Core Course (First Year Writing)	3	Core Course (Literature)	3
First-year HCE Reflection Seminar I	0	First-year HCE Reflection Seminar II	0

Sophomore Fall (16 Credits)		Sophomore Spring (16 Credits)	
Engineering Foundations Studio I	3	Engineering Foundation Studio III	4
Engineering Foundations Studio II	3	Engineering Foundations Studio IV	4
General Chemistry with Lab (Natural Science Core)	4	Engineering Foundations Studio V	2
Core Course (Theology)	3	Core Course (Philosophy)	3
Language I	3	Language II	3
Engineering Foundations Reflection Seminar I	0	Engineering Foundations Reflection Seminar II	0

Junior Fall (16 Credits)		Junior Spring (16 Credits)	
Concentration-specific Engineering Course	3	Collaborative Service Engineering Project	3
Intro to Data Science and Machine Learning	4	Human Factors in Engineering Design	3
Core Course (History I)	3	Concentration-specific Engineering Course	4
Core Course (Social Science)	3	Core Course (Art)	3
Language III	3	Language IV	3
HCE Reflection Seminar I	0	HCE Reflection Seminar II	0

Senior Fall (15 Credits)		Senior Spring (15 Credits)	
Senior Impact Project	3	Senior Impact Project	3
Concentration-specific Engineering Course	3	Advanced Engineering Math (Concentration-specific)	3
Concentration-specific Engineering Course	3	Core Course (History II)	3
Core Course (Philosophy)	3	Core Course (Theology)	3
Core Course (Social Science)	3	[Elective]	3
Senior HCE Reflection Seminar I	0	Senior HCE Reflection Seminar II	0

## Additional Information:

- The HCE faculty tailors the major to students' particular needs and interests. Students work closely with their HCE advisors to design their schedules and to take into account AP credits, language proficiency, and concentration interests.
- HCE students can enroll a special Perspectives I course as sophomores which fulfills BC Core requirements in Philosophy and Theology.
- HCE students interested in Pre-Health should consult with their HCE advisors and Pre-Health advisors to optimize their schedule each semester.

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