Human-Centered Engineering Example Course Schedule

Key: Engineering | Core | Reflection

FIRST-YEAR FALL	Credits
Calculus I (Math Core)	4
PHYS2200: Physics I for Physics Majors (Natural Science)	4
ENGR1102: Physical Modeling and Analysis Lab	2
ENGR1026: Innovation Through Engineering Design &	3
Core Course (First-Year Writing or Literature)	3
or	
ENGR1801/HIST1627: Making the Modern World: Design, Ethics & Engineering (History II/Cultural Div.)	6
ENGR1702: First-Year HCE Reflection I	0
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FIRST-YEAR SPRING	Credits
Calculus II	4
ENGR1103: Engineering Analysis Lab	2
ENGR1105: Engineering Computation and Programming	3
ENGR1101: Introduction to Human-Centered Engineering	4
Core Course (First-Year Writing or Literature)	3
ENGR1703: First-Year HCE Reflection II	0
	16

SOPHOMORE FALL	Credits
ENGR2101: Engineering Foundations Studio I	3
ENGR2102: Engineering Foundations Studio II	3
CHEM1109/CHEM1111: General Chemistry I with Lab (Natural Science)	4
Core Course (Philosophy)	3
Language I	3
ENGR2702: Second-Year HCE Reflection I	0
	16

SOPHOMORE SPRING	Credits
ENGR2103 Engineering Foundations Studio III	4
ENGR2104: Engineering Foundations Studio IV	4
ENGR2105: Engineering Foundations Studio V	2
Core Course (Philosophy)	3
Language II	3
ENGR2703: Second-Year HCE Reflection II	0
	16

JUNIOR FALL	Credits
ENGR3101: Engineering for Society	3
ENGR3105: Statistical Data Analysis & Machine Learning	4
Technical elective 1	3
Core Course (Social Science)	3
Language III	3
ENGR3702: Third-Year HCE Reflection I	0
	16

JUNIOR SPRING	Credits
ENGR3100: Collaborative Service Engineering Project	3
Technical elective 2	4
Core Course (Art)	3
Core Course (Theology)	3
Language IV	3
ENGR3703: Third-Year HCE Reflection II	0
	16

SENIOR FALL	Credits
ENGR4801: Senior Impact Project	3
Technical elective 3	4
Core Course (Theology)	3
Core Course (Social Science)	3
Core Course (History I)	3
ENGR4704: Fourth-Year HCE Reflection I	0
	16

SENIOR SPRING	Credits
ENGR4802: Senior Impact Project	3
ENGR3103: Advanced Math for Engineers*	3
Technical elective 3	3
Core Course (History II)	3
Open elective	3
ENGR4705: Fourth-Year HCE Reflection II	0
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- This is an example schedule. HCE majors work with faculty advisors each semester to design individual schedules taking into account advanced placement, language proficiency, technical areas of interest, majors, minors, and study abroad.
- First-year students can take in the fall either: ENGR1026 (3 cr) and a core course (3cr) or ENGR1801/HIST1627 (6 cr).
- Sophomores can enroll in Perspectives on Western Culture which fulfills all BC Core requirements in Philosophy and Theology.
- Students interested in the pre-health track consult with their engineering advisors and the Pre-Health Office to develop course plans.
- Technical elective policy: 14 credits minimum, one 4 credit lab course, one course designated "advanced engineering foundations."
- Note: *With departmental permission, students can substitute 3 credits of advanced math or science to fulfill ENGR3103.

More guidance can be found online at https://www.bc.edu/bc-web/schools/morrissey/departments/engineering.html