Hub Electives: must include all Hub areas below to fulfill degree requirements

- 1. One unit Philosophical Inquiry & Life’s Meanings
- 2. One unit Aesthetic Exploration
- 3. One unit Historical Consciousness
- 4. One unit Social Inquiry
- 5. One unit Individual & Community
- 6. First unit Global Citizenship & Intercultural Literacy
- 7. Second unit Global Citizenship & Intercultural Literacy
- 8. One unit Ethical Reasoning

Total of at least 16 credits

Notes
- Students planning to study abroad sophomore 2 should take EK 301 in sophomore 1.
- Grey box = either semester
- Students must complete 48 credits of upper-division program coursework (not including Hub or writing).
REQUIREMENTS

Computer Engineering majors are required to complete a minimum of 133 credits as detailed on the Program Planning Sheet on the other side of this page.

HUB ELECTIVES

All students are required to complete a total of 26 Hub units. Eighteen of these Hub units are included in courses required for the CE BS degree. The remaining eight Hub units must be satisfied through four (or more) Hub Electives that incorporate the following seven Hub areas: Philosophical Inquiry; Aesthetic Exploration; Historical Consciousness; Social Inquiry; Individual in Community; Ethical Reasoning; Global Citizenship & Intercultural Literacy (2X). Lists of courses that fulfill combinations of these Hub units are at: www.bu.edu/eng/current-students/ugrad/requirements/hub-electives/.

CORE ELECTIVE

Computer Engineering majors complete two Core Electives from the following list:

ENG EC 401 Signals and Systems
ENG EC 410 Introduction to Electronics
ENG EC 440 Introduction to Operating Systems
ENG EC 441 Introduction to Computer Networking
ENG EC 444 Smart and Connected Systems
ENG EC 450 Microprocessors

COMPUTER ENGINEERING ELECTIVE

Computer Engineering majors complete two Computer Eng Elective courses (8 credits) from the following list:

ENG EC 440 Introduction to Operating Systems
ENG EC 441 Intro to Computer Networking
ENG EC 444 Smart & Connected Systems
ENG EC 447 Software Design
ENG EC 504 Advanced Data Structures
ENG EC 512 Enterp Client-Server Softwr Sys Des
ENG EC 513 Computer Architecture
ENG EC 521 CyberSecurity

EE BREADTH ELECTIVE

Computer Engineering majors complete one EE Breadth Elective course from the following list:

ENG EC 401 Signals and Systems
ENG EC 404 Control Systems
ENG EC 410 Intro to Electronics
ENG EC 412 Analog Electronics
ENG EC 414 Machine Learning
ENG EC 415 Communications System
ENG EC 416 Intro to Signal Processing
ENG EC 417 Electric Energy Systems
ENG EC 455 Electromagnetic Systems I
ENG EC 456 Electromagnetic Systems II
ENG EC 471 Physics of Semiconductor Devices
ENG EC 501 Dynamic System Theory
ENG EC 505 Stochastic Processes
ENG EC 508 Wireless Communication
ENG EC 510 Intro to Artificial Intelligence
ENG EC 511 Intro to Operating Systems
ENG EC 512 Entrep Client-Server Softwr Sys Des
ENG EC 513 Computer Architecture
ENG EC 521 CyberSecurity

TECHNICAL ELECTIVES (see Notes below)

Computer Engineering majors complete three Technical Elective courses (12 credits):

ENG BE 209 and any ENG EC, BE, EK or ME course at the 300-level or above, except for 600-level courses, are acceptable as Technical Electives.

Pre-Approved Courses Outside Engineering that fulfill a Technical Elective:

CAS AS 414 Solar and Space Physics
CAS AS 440 Intro to Artificial Intelligence
CAS AS 480 Introduction to Computer Graphics
CAS AS 585 Image and Video Computing
CAS MA 511 Introduction to Analysis

CAS MA 528 Introduction to Modern Geometry
CAS MA 531 Computability and Logic
CAS MA 541 Modern Algebra I
CAS MA 583 Introduction to Stochastic Processes
CAS PY 313 Waves and Modern Physics

Notes:

For each of the following seven sets of courses, only one course can be taken for credit in each set due to the overlap of material:

(1) ENG ME 403, ENG ME 404, ENG BE 402, ENG EC 402
(2) ENG ME 303, ENG BE 436
(3) ENG ME 501, ENG EC 501
(4) ENG EK 102, ENG EK 103, CAS MA 142, CAS MA 242
(5) ENG BE 401, ENG BE 403, ENG EC 401
(6) ENG ME 366, ENG EC 381, ENG EK 481, ENG BE 200
(7) ENG ME 460, ENG ME 560

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