# Systems Engineering

Core in the area of Systems combined with a Computer Science (CS) Minor

General Department Requirements (GDR)
Core (CORE)
Course 6 Minor (6M)
Restricted Elective (RE)
Unrestricted Electives (UE)
Humanities, Arts, and Social Sciences (HASS)

|  | FALL | REQ | SPRING | REQ |
|---|---|---|---|---|
| Sophomore | 1.000 Computer Programming for Engineering Applications (12) | GDR | 18.03 Differential Equations (12) | GDR |
|  |  |  | 1.074 Intro to Multivariate Data Analysis (6) | GDR |
|  | 1.010 Probability and Causal Inference (12) | GDR |  |  |
|  |  |  | 1.102 Intro to CEE Design II (6) | CORE |
|  | 1.101 Intro to CEE Design I (6) | CORE | 6.042 Mathematics for Computer Science (12) | 6M/UE |
|  | 6.0001+6.0002 Introduction to Computer Science (12) | 6M |  |  |
|  | HASS (12) |  | HASS (12) | UE |
| Junior | 1.075 Water Resource Systems (12) | CORE | 1.020 Engineering Sustainability, Analysis and Design (12) | CORE |
|  | 1.022 Intro to Network Models (12) | CORE |  |  |
|  | 6.008 Introduction to Inference /OR/ | 6M | 1.041 Transportation Systems Modeling (12) | CORE |
|  | 6.004 Computation Structures /OR | 6M |  |  |
|  | 6.034 Artificial Intelligence (12) | 6M | 6.009 Fundamentals of Programming (12) | 6M/UE |
|  | HASS (12) |  | HASS (12) |  |
| Senior | 6.006 Introduction to Algorithms (12) | 6M/UE | 1.013: Senior Civil and Environmental Engineering Design (12) | GDR |
|  | 6.031 Software Construction /OR/ | 6M/UE |  |  |
|  | 6.036 Introduction to Machine Learning (12) | 6M/UE | 6.268 Network Science and Models /OR/ 15.053 Optimization Methods (12) | RE |
|  |  |  |  | RE |
|  | 1.200 Transportation Systems: Performance and Optimization /OR/ | RE | 6.170 Software Studio /OR/ | UE |
|  | 1.208 Resilient Networks (12) |  | 6.046 Design and Analysis of Algorithms (12) | UE |
|  | HASS (12) | RE | HASS (12) |  |

Up to 24 units of the Course 6 minor classes can double count as requirements for Course 1
Please contact cee-apo@mit.edu if you have any questions.