MECHANICAL ENGINEERING (COURSE 2)

Department of Mechanical Engineering (http://catalog.mit.edu/schools/engineering/mechanical-engineering/#undergraduatetext)

Bachelor of Science in Mechanical Engineering

General Institute Requirements (GIRs)
The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

Summary of Subject Requirements

Science Requirement 6
Humanities, Arts, and Social Sciences (HASS) Requirement; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.
Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 2.001 and 18.03 in the Departmental Program] 2
Laboratory Requirement (12 units) [can be satisfied by 2.671 in the Departmental Program] 1
Total GIR Subjects Required for SB Degree 17

Physical Education Requirement
Swimming requirement, plus four physical education courses for eight points.

Departmental Program
Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

Required Core Subjects

2.001 Mechanics and Materials I 12
2.002 Mechanics and Materials II 12
2.003[J] Dynamics and Control I 12
2.004 Dynamics and Control II 12
2.005 Thermal-Fluids Engineering I 12
2.006 Thermal-Fluids Engineering II 12
2.007 Design and Manufacturing I 12
or 2.017[J] Design of Electromechanical Robotic Systems 12
2.008 Design and Manufacturing II 12
2.086 Numerical Computation for Mechanical Engineers 12
2.670 Mechanical Engineering Tools 3 3
2.671 Measurement and Instrumentation (CI-M) 12

Units in Major 177-180

Unrestricted Electives 3 48

Units in Major That Also Satisfy the GIRs 36

Total Units Beyond the GIRs Required for SB Degree 189-192

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

1 Consult the MechE Undergraduate Office, Room 1-110, regarding substitutions.
To encourage more substantial research, design, or independent study, the department permits up to 15 units of TH4 credit, subject to approval of the student's thesis advisor.

The department suggests that students select a basic electronics subject (e.g., 2.678, 6.2000, or 22.071) as early as possible in their program.