

## BACHELOR OF SCIENCE AS RECOMMENDED BY THE DEPARTMENT OF CHEMICAL ENGINEERING (COURSE 10-C)

Department of Chemical Engineering (<http://catalog.mit.edu/schools/engineering/chemical-engineering/#undergraduatetext>)

### Bachelor of Science as Recommended by the Department of Chemical Engineering

Students planning to follow this curriculum must submit a statement of goals and a coherent program of subjects no later than the spring term of their junior year.

#### 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	Subjects
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.	8
Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 18.03 in the Departmental Program]	2
Laboratory Requirement (12 units) [can be satisfied by 3.010 AND 3.020, 6.2050, 7.002/7.003[[]], or 15.301 in the Departmental Program]	1
<b>Total GIR Subjects Required for SB Degree</b>	<b>17</b>

#### 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.

Departmental Requirements	Units
5.601 Thermodynamics I	6
10.10 Introduction to Chemical Engineering	12
10.213 Chemical and Biological Engineering Thermodynamics	12
10.301 Fluid Mechanics	12
10.302 Transport Processes	12
18.03 Differential Equations <sup>1</sup>	12

#### Restricted Electives

Students must choose electives that form a coherent plan of study. Students must include two restricted electives selected according to the following lists. <sup>2</sup>

Select one of the following:

5.310	Laboratory Chemistry	102
6.2600[[]]	Micro/Nano Processing Technology (CI-M)	
7.002 & 7.003[[]]	Fundamentals of Experimental Molecular Biology and Applied Molecular Biology Laboratory (CI-M)	
10.26	Chemical Engineering Projects Laboratory (CI-M)	
10.27	Energy Engineering Projects Laboratory (CI-M)	
10.28	Chemical-Biological Engineering Laboratory (CI-M)	
10.29	Biological Engineering Projects Laboratory (CI-M)	
10.467	Polymer Science Laboratory (CI-M)	

Select one additional subject from the above list or the following:

6.1800	Computer Systems Engineering (CI-M)
6.2050	Digital Systems Laboratory
6.4590[[]]	Foundations of Information Policy (CI-M)
6.4810[[]]	Cellular Neurophysiology and Computing
14.05	Intermediate Macroeconomics (CI-M)
15.279	Management Communication for Undergraduates (CI-M)
15.301	People, Teams, and Organizations Laboratory (CI-M)

**Units in Major** **168**

**Unrestricted Electives** **48**

Units in Major That Also Satisfy the GIRs (24-36)

**Total Units Beyond the GIRs Required for SB Degree** **180-192**

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

<sup>1</sup> 18.032 Differential Equations is also an acceptable option.

<sup>2</sup> If the student chooses to include a subject from the second list of Restricted Electives (6.1800-15.301), the subject must fit logically within the plan of study.