

# Bachelor of Science in Engineering as Recommended by the Department of Mechanical Engineering/Course 2-A

## Product Development Track

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General Institute Requirements (GIRs)	Subjects
Science Requirement	6
Humanities, Arts, and Social Sciences Requirement	8
Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 2.001 and 18.03 in the Departmental Program]	2
Laboratory Requirement [can be satisfied by 2.671 in the Departmental Program]	1
<b>Total GIR Subjects Required for SB Degree</b>	<b>17</b>

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### Communication Requirement

2 subjects designated as Communication Intensive in Humanities, Arts, and Social Sciences (CI-H); and  
2 subjects designated as Communication Intensive in the Major (CI-M)

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### PLUS Departmental Program

*Subject names below are followed by credit units, and by prerequisites if any (corequisites in italics).*

#### Required Departmental Core Subjects

2.001 Mechanics and Materials I, 12, REST; 8.01, 18.02, *18.03*  
2.003J Dynamics and Control I, 12, REST; 8.01, 18.03  
2.005 Thermal-Fluids Engineering I, 12, REST; 8.02, *18.03*  
2.009 The Product Engineering Process, 12; 2.001, 2.003, 2.005, 2.670  
2.670 Mechanical Engineering Tools, 6  
2.671 Measurement and Instrumentation, 12, LAB, CI-M; 2.003, 8.02  
18.03 Differential Equations, 12, REST; *18.02\**

#### Second Level Subjects for This Track

2.002 Mechanics and Materials II, 12; 2.001 or 2.006 Thermal-Fluids Engineering II, 12; 2.005, 18.03  
2.007 Design and Manufacturing I, 12; 2.001, 2.670  
2.008 Design and Manufacturing, II, 12; 2.002 or 2.012, 2.005, 2.007 or 2.017

#### Product Concentration

*At least 24 units drawn from the following list:*

2.72 Elements of Mechanical Design, 12; 2.005, 2.007, 2.671  
2.739J Product Design and Development, 12; 2.009, 15.760, 15.761, or permission of instructor  
2.744 Product Design, 12; 2.009

*Take this:*

14.01 Principles of Microeconomics, 12\*\*

*At least 24 units drawn from the following list:*

15.501 Corporate Financial Accounting, 12; 14.01  
15.615 Basic Business Law, 9  
15.810 Marketing Management, 9

#### Some recommendations for unrestricted electives

15.628 Patents, Copyrights, and the Law of Intellectual Property, 6 (P/D/F)  
15.836 New Product and Venture Development, 6 (P/D/F)

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**Departmental Program units that also satisfy the GIRs** (36)

**Unrestricted Electives** 48

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### Total Units Beyond the GIRs Required for SB Degree

*No subject can be counted both as part of the 17-subject GIRs and as part of the 186 units required beyond the GIRs. Every subject in the student's departmental program will count toward one or the other, but not both.*

For an explanation of credit units, or hours, please refer to the Subject Key in Part 3 of the Bulletin.

\* Alternative prerequisites are listed in the subject description.

\*\* If 14.01 is used as a GIR or HASS elective, a different course must be substituted for it.