

**MECHANICAL ENGINEERING PROGRAM CHART**

STUDENTS EARNING A B.S. DEGREE IN MECHANICAL ENGINEERING MUST COMPLETE 15 UNITS OF STUDY, DISTRIBUTED AS FOLLOWS:

4 UNITS OF NON-TECHNICAL ACTIVITIES

2 UNITS HUMANITIES AND ARTS	<i>See WPI Requirements</i>
1 UNIT INTERACTIVE QUALIFYING (IQP) PROJECT	<i>See WPI Requirements</i>
2/3 UNIT SOCIAL SCIENCE	<i>See WPI Requirements</i>
1/3 UNIT PHYSICAL EDUCATION	<i>See WPI Requirements</i>

1 UNIT FREE ELECTIVE

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4 UNITS OF MATHEMATICS AND BASIC SCIENCE

5/3 Units  
Differential & Integral Calculus and Ordinary Differential Equations

MATHEMATICS	
MA 1021	MA 1023
MA 1022	MA 1024
MA 2051	

4/3 Units  
Student Selected Courses from the General Category of Mathematics and/or Basic Science

3/3 Units  
One Chemistry and Two Physics, OR  
One Physics and Two Chemistry

SCIENCE	
CH 1010	CH 1020
PH 1110	PH 1120

6 UNITS OF MECHANICAL ENGINEERING (Notes 1 & 2)

1 unit required	1 unit required	1 unit required	1 unit required	2 units required
MECHANICAL SYSTEMS	THERMOFLUID SYSTEMS	OTHER COURSES	MAJOR QUALIFYING PROJECT (MQP)	ELECTIVES
ES 2501 ES 2502 ES 2503	ES 3001 ES 3003 ES 3004	ES 2001 ECE 3601 ME 3901		At least one unit must be chosen as ES or ME courses at the 4000-level or higher.

The courses listed above can be replaced by other equivalent courses, with approval by the ME Program Committee.

**Note 1:** A complete program must include an activity in each of the following six categories. Courses used to satisfy these activities can be multiple-counted. They can be used to simultaneously satisfy the mechanical engineering, mathematics and basic science, and free elective requirements.

OTHER ACTIVITIES					
Linear Algebra	Statistics	Mechanical System Design	Thermofluid System Design	Realization	Capstone Design
MA 2071 ME 3501 MA 2073 ME 4505 MA 4411 ME 4512 ME 3311 ME 3321	MA 2611 MA 2612 MA 2621 ME 3901	ME 3310 ME 4320 ME 3311 ME 4430 ME 3320 ME 4770 ME 3506 ME 4771 MQP (depending on topic)	ME 4429 ME 4430 ME 4770 ME 4771 MQP (depending on topic)	ES 3323 ME 1800 ME 2300 ME 3506 MQP (depending on topic)	ME 4320 ME 4429 ME 4430 ME 4770 ME 4810 MQP (depending on topic)

**Note 2:** Elective courses from other engineering disciplines may also be selected at the 2000, 3000 or 4000 levels.