

Mechanical Engineering Major Courses (43 credits) (<https://engineering.purdue.edu/ME/Academics/Undergraduate/index.html>)

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| _____ (3) ME 20000 - Thermodynamics I | _____ (4) ME 31500 - Heat and Mass Transfer |
| _____ (3) ME 27000 - Basic Mechanics I | _____ (3) ME 32300 - Mechanics of Materials |
| _____ (3) ME 26300 - ME Design, Innov. & Entre. | _____ (4) ME 35200 - Machine Design I |
| _____ (3) ME 27400 - Basic Mechanics II | _____ (3) ME 36500 - Systems and Measurements |
| _____ (1) ME 29000 - ME Professional Seminar | _____ (3) ME 37500 - System Modeling and Analysis |
| _____ (4) ME 30900 - Fluid Mechanics | _____ (3) ME 46300 - Engineering Design |
| _____ (6) ME 30000/ME 45200/ME 47500 - 2 of 3 required - Satisfies Restricted Selective requirements | |

ME Professional Selectives (12 credits) (<https://engineering.purdue.edu/ME/Academics/Undergraduate/METechElects.html>)

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| _____ (3) Professional Selective I | _____ (3) Professional Selective III |
| _____ (3) Professional Selective II | _____ (3) Professional Selective IV |

First-Year Engineering Course Requirements (29-31 credits) * (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)

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| _____ (4) CHM 11500 - <i>General Chemistry I (Science Outcome I)</i> |
| _____ (3) Oral Communication Selective* - COM 11400 Recommended (<i>Oral Communication Outcome</i>) |
| _____ (4/3) Written Communication Selective* - ENGL 10600 Recommended - (<i>Written Communication Outcome</i>) |
| _____ (2) ENGR 13100- Transforming Ideas to Innovation I (<i>Information Literacy Outcome</i>) |
| _____ (2) ENGR 13200 - Transforming Ideas to Innovation II |
| _____ (4) MA 16500 - Analytic Geometry and Calculus I (<i>Quantitative Reasoning Outcome</i>) |
| _____ (4) MA 16600 - Analytic Geometry and Calculus II |
| _____ (4) PHYS 17200- Modern Mechanics (<i>Science Outcome II</i>) |
| _____ (4/3) Science Selective (BIOL 11000/CHM 11600/CS 15900) - Select one from list (all options accepted). |

Other School/Department Course Requirements (23 credits)

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| _____ (2) CGT 16300 - Graphical Communication and Spatial Analysis (Not included in ME Core GPA) |
| _____ (3) ECE 20100 - Linear Circuit Analysis |
| _____ (1) ECE 20700 - Electronic Measurement Techniques |
| _____ (4) MA 26100 - Multivariate Calculus |
| _____ (4) MA 26200 - Linear Algebra and Differential Equations |
| _____ (3) MA 30300 - Differential Equations and Partial Differential Equations for Engineering and the Sciences |
| _____ (3) MSE 23000 - Structure and Properties of Materials |
| _____ (3) PHYS 24100 - Electricity and Optics |

General Education Selectives (18 credits) and Free Elective (3 Credits)

(<https://engineering.purdue.edu/ME/Academics/Undergraduate/GenEds.html>)

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| _____ (3) Econ Sel. (<i>B/SS</i>) | _____ (3) G.E.-II | _____ () _____ | _____ () _____ |
| _____ (3) WAC (<i>Hum</i>) | _____ (3) G.E.-III | _____ () _____ | _____ () _____ |
| _____ (3) G.E.-I | _____ (3) G.E.-IV | _____ () _____ | _____ () _____ |
| _____ (3) Free Elective | | | |

University Core Requirements

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|------------------------------------------|--------------------------------------------|-----------------------------------------|----------------------------------------------------|
| Human Cultures Humanities | <input type="checkbox"/> <u>WAC Sel.</u> | Science, Technology & Society Selective | <input type="checkbox"/> <u>ME 29000</u> |
| Human Cultures Behavioral/Social Science | <input type="checkbox"/> <u>ECON Sel.</u> | Written Communication | <input type="checkbox"/> <u>Written Comm. Sel.</u> |
| Information Literacy | <input type="checkbox"/> <u>ENGR 13100</u> | Oral Communication | <input type="checkbox"/> <u>Oral Comm. Sel.</u> |
| Science Selective | <input type="checkbox"/> <u>CHM 11500</u> | Quantitative Reasoning | <input type="checkbox"/> <u>MA 16500</u> |
| Science Selective | <input type="checkbox"/> <u>PHYS 17200</u> | | |

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

Mechanical Engineering

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Recommended Plan-of-Study (POS):

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	CHM 11500 (<i>Science I</i>)		2	ENGR 13200	ENGR 13100
3-4	Written Communication - ENGL10600 Recommended (<i>Written Communication</i>)		3	Oral Communication – COM 11400 Recommended (<i>Oral Communication</i>)	
2	ENGR 13100 (<i>Inform. Lit.</i>)		4	MA 16600	MA 16500
4	MA 16500 (<i>Quant. Reason.</i>)		4	PHYS 17200 (<i>Science II</i>)	MA 16500
3	General Education Sel. I		3-4	Science Selective	
16-17			16-17		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
2	CGT 16300		3	ECE 20100	ENGR 13100, PHYS 17200, MA 26100 co-req.
4	MA 26100	MA 16600	1	ECE 20700	ECE 20100 co-req.
3	ME 20000	CHM 11500, ENGR 13200 co-req., MA 26100 co-req.	4	MA 26200	MA 26100
3	ME 27000	ENGR 13200 co-req., MA 26100 co-req., PHYS 17200	3	ME 26300	CGT 16300 co-req., MA 26200 co-req., ME 20000, ME 27000, ME 29000 co-req.
1	ME 29000	Oral Com., Written Com. ME Status	3	ME 27400	ME 27000, MA 26200 co-req.
3	PHYS 24100	MA 16600 co-req., PHYS 17200	3	Economics Selective (<i>B/SS</i>)	
16			17		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MA 30300	MA 26200	4	ME 35200	ME 26300, ME 27400, ME 32300
4	ME 30900	ME 26300, ME 27400, MA 26200	3	ME 37500	MA 30300, ME 36500
3	ME 32300	ME 27000	3	MSE 23000	CHM 11500, MA 16500
3	ME 36500	ECE 20100, ECE 20700, ME 27400	3	General Education Selective II	Varies
3	World Affairs and Cultures Selective (<i>Humanities</i>)		3	Professional Selective I	Varies
16			16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
4	ME 31500	MA 30300, ME 30900, ME 36500	3	ME 46300	ME 31500, ME 35200, ME 37500, MSE 23000
3	Restricted Selective I	Varies	3	Restricted Selective II	Varies
3	Professional Selective II	Varies	3	Professional Selective III	Varies
3	General Education Sel. III	Varies	3	Professional Selective IV	Varies
3	Free Elective	Varies	3	General Education Selective IV	Varies
16			15		

128 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree

2.0 ME Core GPA required for Bachelor of Science degree

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