

Course Planning Specifics: Mechanical Engineering

Students who are interested in [Mechanical Engineering](#) should complete the Calculus sequence in their first year (MA 1021-MA 1024), and Physics during their first two terms. Completion of these courses can be through a combination of AP or transfer credit, as well as WPI courses. So, if you received AP credit for courses early in the sequence, you can start at the next course in the sequence. For students who began with the Physics sequence in A/B terms, consider CH 1010 in C term. If you began with Chemistry, please consider Physics for C/D terms. Students who have already completed MA 1024 can proceed to Differential Equations (MA 2051).

Students with an interest in mechanical engineering are encouraged to engage early in the discipline by taking one or two introductory courses in the first year. Introduction to Computer Aided Design ([ES 1310](#)), and Materials Selection and Manufacturing Processes ([ME 1800](#)) are three excellent ways to learn how mechanical engineers design and make artifacts for the modern world. For students who have taken Physics during A/B terms, please consider Introduction to Statics (ES 2501), Introduction to Electrical and Computer Engineering (ECE 2010). Introduction to Material Science (ES 2001) is a great option if you have some background in Chemistry.

Students should also consider taking a Great Problems Seminar during their first year to get a jumpstart on our project experience here at WPI.

Examples of typical course schedules

<u>C term</u>	<u>D term</u>
PH 1110/1111	PH 1120/1121
MA	MA
GPS/HUA/ES/ME	GPS/HUA/ES/ME
PE (optional)	PE (optional)

<u>C term</u>	<u>D term</u>
MA	MA
CH 1010	ES/ME/ECE or Science
GPS/HUA/ES/ME/ECE	GPS/HUA or SS
PE (optional)	PE (optional)

Course Planning Worksheet: Mechanical Engineering

Math Placement Test Result: _____

Abbreviation Key for Course Planning Tracker:

- **GPS** = Great Problems Seminar
- **HU**= Humanities Course (includes AB, AR, CN, EN, GN, HI, HU, INTL, ISE, MU, PY, RE, SP, TH, WR)
- **SS** = Social Science Course (includes ECON, ENV, GOV, PSY, SD, SOC, SS)
- **BB** = Biology Course
- **PH**= Physics Course
- **CH**= Chemistry Course

Any courses marked with an asterisk (*) are optional programs, and can be taken in addition to the three courses.

Please Note: The Great Problems Seminars are a two term sequence course. They are also **linked**. This means that when registering for a GPS course in C term, you must register for its second half in D term.

<u>C Term Selections</u>		<u>D Term Selections</u>	
	<u>(Include CRN)</u>		<u>(Include CRN)</u>
PH 1110/1111 or Other		PH 1120/1121 or Other	
MA		MA	
GPS, HUA, ES, ME		GPS, HUA, ES, ME	
*Physical Education (1/12 credit unit)		*Physical Education (1/12 credit unit)	
*Military Science (Must be affiliated with an ROTC unit)		*Military Science (Must be affiliated with an ROTC unit)	
Back-ups		Back-ups	