

USM Pre-Engineering Pathway for Early College students - 15 or 16 credits

This pathway is designed for students interested in pursuing a degree in Engineering. Some of these courses have prerequisites.

Suggested courses: If student is not Calculus ready, student will take an online math placement test online to determine correct starting math course:

Possible math sequence if not calculus ready:

- MAT 108 - College Algebra Credits: 4 (or)
- MAT 140 - Precalculus Credits: 4

If Calculus ready: Choose 4 courses - some must be taken in sequence

- MAT 152 Calculus A Credits: 4
- MAT 153 Calculus B Credits: 4
- ENG 100 College Writing Credits: 3
- EGN 160 Introduction to Programming: The C language Credits: 4
or
- COS 160/170 Structured problem Solving Java with Lab Credits: 4
- CHY 113 Principles of Chemistry I /CHY 114 Laboratory Techniques I Credits: 3/1.5
or
- PHY 121 General Physics I / PHY 114 Introductory Physics laboratory Credits: 4/1

Career options:

The need for engineers continues to grow. This vital role connects workers, materials, technology, and information in cost-effective and sophisticated ways. Engineering majors are prepared for positions in healthcare, manufacturing, supply chain logistics, tourism, food production, and beyond.

[Engineering at USM](#)

Engineering transfer agreements:

[Maine Engineering Pathways Program](#)
[Community College Transfer Agreements](#)