MET Prerequisites and Curriculum Flowchart

Legend:
- → Prerequisite
- ⇒ Prerequisite with a grade of C or better
- ↔ Corequisite
- ⇢ Pre- or coequisite

- 🟩 Math and Physical/Natural Sciencess
- 🟦 Discipline-Specific Content
- 🟥 General Education / General Studies
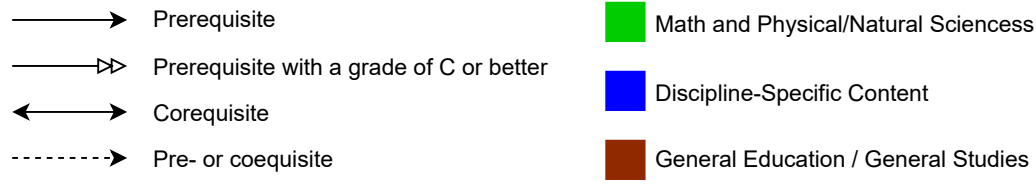
Important Note:
The ODU Undergraduate Catalog will always supersede this document if a discrepancy is found

Freshman Year

Fall
- ENGN 121 — Intro to Engineering and Technology — 4 credit hours
- MATH 162M — Precalculus I — 3 credit hours
- CHEM 122N — Foundations of Chemistry Lab — 1 credit hours
- CHEM 121N — Foundations of Chemistry Lecture — 3 credit hours
- ENGL 110C — English Composition — 3 credit hours

Spring
- ENGN 122 — Computer Programming for Engineering — 4 credit hours
- MATH 163 — Precalculus II — 3 credit hours
- PHYS 111N — Introductory General Physics I — 4 credit hours
- ENGL 211C — Writing, Rhetoric, and Research — 3 credit hours

Sophomore Year

Fall
- ENGT 230 — Eng. Graphics and Computer Solid Modeling — 3 credit hours
- MATH 211 — Calculus I — 4 credit hours
- PHYS 112N — Introductory General Physics II — 4 credit hours
- ENGT 200 — Statics — 3 credit hours
- COMM 101R — Public Speaking — 3 credit hours

Spring
- ENGT 286 — Automation and Controls Laboratory — 1 credit hour
- ENGT 270 — Automation and Controls — 3 credit hours
- MET 225 — Strength of Materials Laboratory — 1 credit hour
- ENGT 220 — Strength of Materials — 3 credit hours
- MET 200 — Materials and Manufacturing Processes — 3 credit hours
- Human Behavior (S) — 3 credit hours

Junior Year

Fall
- ENGT 365 — Geometric Dimen. and Tolerancing — 3 credit hours
- MET 331 — Fluid Mechanics Laboratory — 1 credit hour
- MET 330 — Fluid Mechanics — 3 credit hours
- MET 310 — Dynamics — 3 credit hours
- MET 300 — Thermodynamics — 3 credit hours
- Human Creativity (A) — 3 credit hours

Spring
- ENGT 305 — Advanced Technical Analysis — 3 credit hours
- MET 320 — Design of Machine Elements — 3 credit hours
- MET 351 — Thermal Applications Laboratory — 1 credit hour
- MET 350 — Thermal Applications — 3 credit hours
- MET 340 — Heat Transfer — 3 credit hours
- Literature (L) — 3 credit hours

Senior Year

Fall
- ENGT 434 — Introduction to Senior Design Project — 3 credit hours
- ENMA 302 — Engineering Economics — 3 credit hours
- ENMA 480 — Ethics and Philosophy in Engr. Applications — 3 credit hours
- Approved MET Elective — 3 credit hours*
- Interpreting the Past (H) — 3 credit hours

Spring
- ENGT 435W — Senior Design Project — 3 credit hours
- Approved MET Elective — 3 credit hours
- Approved MET Elective — 3 credit hours*
- Option A, B, or D — 3 credit hours**
- Option A, B, or D — 3 credit hours**

Last updated 07/20/24 by N. Luetke

*See course catalog for prerequisite requirements
**Credit hours are based on selecting option D, options A and B may increase the number of credits