Applied Engineering Sciences

Prerequisite Flowchart

These requirements are effective for students admitted to the Applied Engineering Sciences major beginning Fall 2021.

**Freshman Year**

- Fall Term 1: ASC 110 - 1 AES as a Profession
- Spring Term 2: CEM 161 - 1 Cem Lab I
- Fall Term 3: MTH 132 - 3 Calc I
- Spring Term 4: MTH 133 - 4 Calc II
- Spring Term 5: PHY 183 - 4 Physics I
- Spring Term 6: CEM 141 - 4 Gen Cem
- Spring Term 7: EGR 100 - 2 Intro Engr Desgn
- Spring Term 8: EGR 102 - 2 Intro Engr Model

**Sophomore Year**

- Fall Term 3: EC 201 - 3 Introduction to Microeconomics
- Fall Term 4: AESC 210 - 3 Global Systems: Ec, Eng, Env
- Fall Term 5: MTH 234 - 4 Multivar Calc
- Spring Term 6: MTH 235 - 3 Differential Eq
- Spring Term 7: PHY 191 - 1 Physics Lab
- Spring Term 8: MTH 236 - 3 Probability & Stats for Eng

**Junior Year**

- Fall Term 5: ME 201 - 3 Thermodynamics (Pre-req's: CEM 141, MTH 234 or CON & PHY 183)
- Spring Term 6: ME 280 - 2 Graphic Comm (pre-req's: EGR 100 & MTH 132 or CON & EGR 102 or CON)
- Spring Term 7: ME 280 - 2 Graphic Comm
- Spring Term 8: PHY 192 - 1 Physics II

**Senior Year**

- Fall Term 7: PHY 191 - 1 Physics Lab
- Fall Term 8: PHY 184 - 4 Physics II
- Spring Term 5: ACC 230 - 3 Survey of Accounting
- Spring Term 6: STT 351 - 3 Probability & Stats for Eng
- Spring Term 7: ENE/CE 371 - 3 Sus Civil & Env Eng Systems
- Spring Term 8: AE 310 - 3 Sustainable Systems Analysis

**Concentrations**

- 3 credits

**Electives**

- 3 crs of Gen Elecs
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**Legend**

- Prerequisite
- Prerequisite or Concurrent
- Rounded box: Offered only in the semester listed (excluding summer)
- *DIV: Complete courses in at least 2 out of 3 diversity categories- "N", "I" or "D"

Last Revised: 06/07/22