## B.S. in Aerospace Engineering

## Catalog Year 2024-25

Below is the advised sequence of courses for this degree program as of 10/15/2023. Official degree requirements and course prerequisites are found in the University General Catalog; prerequisites are subject to change.

| Course Number and Title | Units | Prerequisites/Enrollment Requirements |
| :---: | :---: | :---: |
| $1{ }^{\text {st }}$ Semester |  |  |
| MATH 122A/B or MATH 125 Calculus I with Applications | 5/3 | Appropriate Math Placement |
| *CHEM 151 Chemical Thinking I or CHEM 161/163 | 4 | Appropriate Math Placement |
| ENGL 101 or 107 or 109H First-Year Composition | 3 |  |
| ENGR 102A/B Introduction to Engineering or ENGR 102 | 3 | ENGR102A: MATH 112 ENGR102B: Pre- or Corequisite of MATH 112 or higher; First-Year Status; College of Engineering Major |
| UNIV 101 Intro to the General Education Experience | 1 |  |
| Semester Total | 16/14 |  |
| $2^{\text {nd }}$ Semester |  |  |
| MATH 129 Calculus II | 3 | MATH 122B or 125 with C or better |
| *PHYS 141 Introductory Mechanics or PHYS 161H | 4 | MATH 122B or 125 or Appropriate Math Placement Level |
| ENGL 102 or 108 First-Year Composition | 3 | ENGL 101 or ENGL 107 |
| General Education: Exploring Perspectives (Artist) | 3 |  |
| General Education: Exploring Perspectives (Humanist) | 3 |  |
| Semester Total | 16 |  |
| $3{ }^{\text {rd }}$ Semester |  |  |
| CE 214 Statics | 3 | PHYS 141 or 161H; MATH 129 |
| MATH 223 Vector Calculus | 4 | MATH 129 with C or better |
| PHYS 241 Introductory Electricity and Magnetism or PHYS 261H | 4 | PHYS 241 or 261 H : PHYS 141 or 140 or 161 H ; MATH 129 or Appropriate Math Placement Level |
| AME 209 Computer Programming in Aerospace and Mechanical Engineering | 3 | MATH 122B or 125 |
| General Education: Exploring Perspectives (Social Scientist) | 3 |  |
| Semester Total | 17 |  |
| $4^{\text {th }}$ Semester |  |  |
| AME 230 Thermodynamics | 3 | PHYS 141 or 161H |
| AME 250 Dynamics | 3 | CE 214; Concurrent Enrollment or Completion of MATH 254 |
| MATH 254 Intro to Ordinary Differential Equations | 3 | MATH 129 or 223 with C or better |
| AME 220 Introduction to Aerospace Engineering | 3 | MATH 223; PHYS 141; Concurrent Enrollment or Completion of MATH 254 |
| AME 211 Computer Aided Drafting and Manufacturing | 3 | MATH 122B |
| General Education: Building Connections | 3 |  |
| Semester Total | 18 |  |


${ }^{\dagger}$ Students should work closely with their academic advisor to select General Education: Building Connections courses; some course work in the major, such as some Technical Elective courses, may also fulfill General Education: Building Connections requirements.

