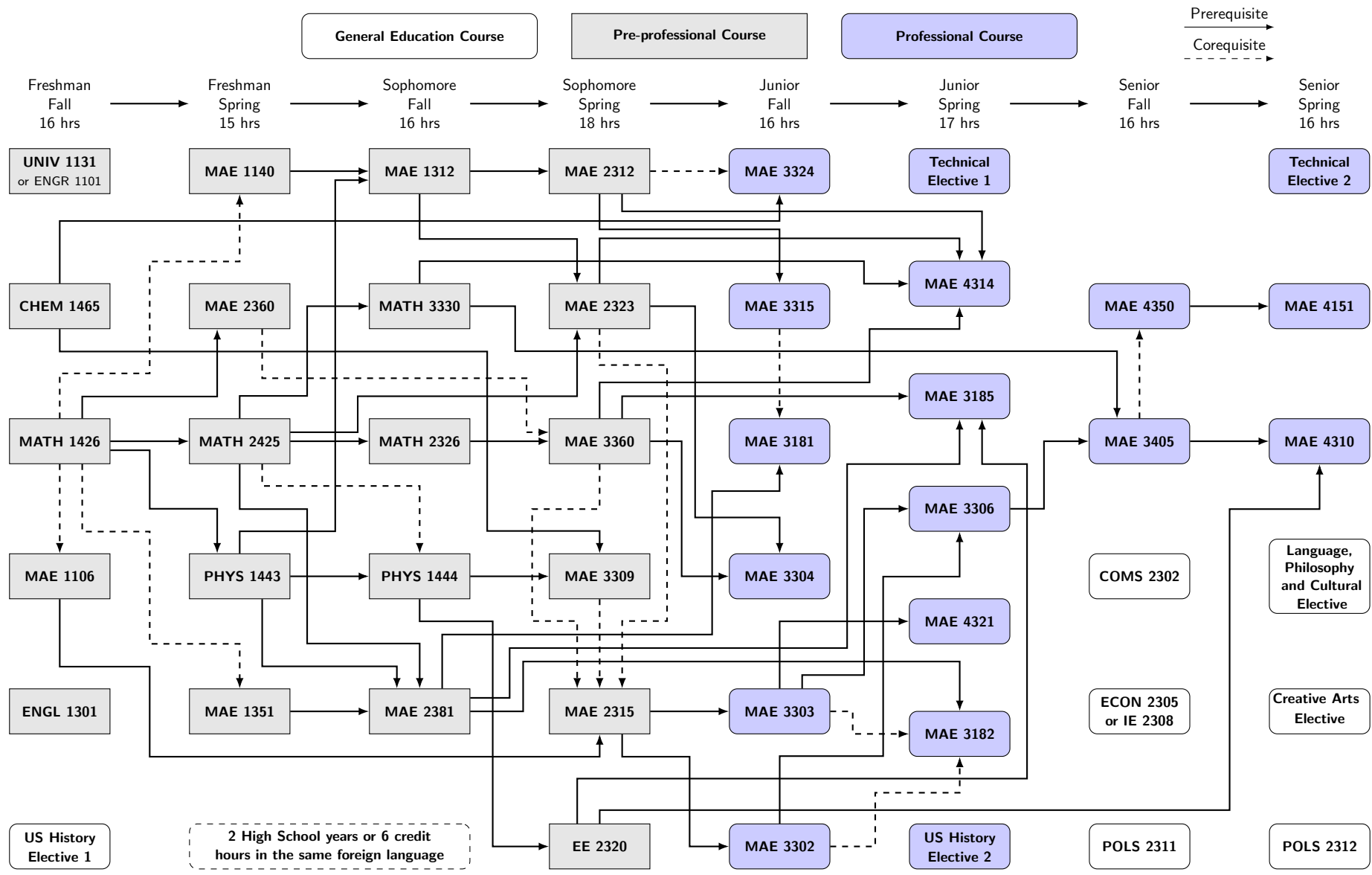


# 2024-2025 Aerospace Engineering Curriculum Flow Chart



Notes: 1. All students must abide by the academic regulations of the University and the College of Engineering. 2. To be in good academic standing within the MAE department, each student must be in compliance with all academic regulations of UTA and COE. In the preprofessional program, each student must maintain a minimum 3-GPA calculation of 2.5 and have a total of no more than four unsuccessful attempts at engineering courses. Further, in the professional program, each student must maintain a minimum UTA cumulative GPA of 2.0 and a minimum major GPA of 2.0. 3. No professional course may be taken unless the student is admitted into the professional program. Professional courses may be taken to fill out a schedule in the semester that the last pre-professional course is taken. 4. Courses may not be offered every semester. Students are urged to plan their course sequence schedules carefully to avoid delaying their graduation.

## 2024-2025 Bachelor of Science in Aerospace Engineering University of Texas at Arlington – Four Year Course Sequence

### First Year

#### Fall Semester – 16 Total Hours

Course	Hours
MAE 1106 – Intro to Aerospace Engineering	1
ENGR 1101 – Intro to Engineering	1
<b>OR</b> UNIV 1131 – Student Success	
MATH 1426 – Calculus 1	4
CHEM 1465 – Chemistry for Engineers	4
ENGL 1301 – Rhetoric & Composition	3
U.S. History Elective 1	3

#### Spring Semester – 15 Total Hours

Course	Hours
MAE 1140 – Problems in MAE	1
MAE 2360–Numerical Analysis/Programming	3
MATH 2425 – Calculus 2	4
PHYS 1443 – General Technical Physics 1	4
MAE 1351 – Intro to Engineering Design	3

### Second Year

#### Fall Semester – 16 Total Hours

Course	Hours
MAE 1312 – Engineering Statics	3
MATH 3330 – Intro to Linear Algebra	3
MATH 2326 – Calculus 3	3
PHYS 1444 – General Technical Physics 2	4
MAE 2381 – Experimental Methods/Measure	3

#### Spring Semester – 18 Total Hours

Course	Hours
MAE 2312 – Solid Mechanics	3
MAE 2323 - Dynamics	3
MAE 2315 – Fluid Dynamics	3
MAE 3309 – Thermal Engineering	3
MAE 3360 – Engineering Analysis	3
EE 2320 – Circuit Analysis	3

### Third Year

#### Fall Semester – 16 Total Hours

Course	Hours
MAE 3324 – Struc & Mech Behavior Material	3
MAE 3315 – Aerospace Structural Statics	3
MAE 3181 – Materials & Structures Lab	1
MAE 3302 – Incompressible Flow	3
MAE 3303 – Compressible Flow	3
MAE 3304 – Astronautics 1	3

#### Spring Semester – 17 Total Hours

Course	Hours
Technical Elective 1	3
MAE 4314 – Mechanical Vibrations	3
MAE 4321 – Aerospace Propulsion	3
MAE 3306 – Flight Performance & Stability	3
MAE 3182 – Aerodynamics & Fluids Lab	1
MAE 3185 – Intro to Mechatronics	1
U.S. History Elective 2	3

### Fourth Year

#### Fall Semester – 16 Total Hours

Course	Hours
MAE 3405 – Flight Dynamics	4
MAE 4350 – Aerospace Vehicle Design 1	3
COMS 2302 – Prof. & Technical Comm	3
ECON 2305 – Principles of Macroeconomics	3
<b>OR</b> IE 2308 – Economics for Engineers	
POLS 2311 – Govt of the United States	3

#### Spring Semester – 16 Total Hours

Course	Hours
Technical Elective 2	3
MAE 4310 – Intro to Automatic Control	3
MAE 4151 – Aerospace Vehicle Design 2	1
Language, Philosophy, Culture Elective	3
Creative Arts Elective	3
POLS 2312 – State & Local Government	3

Notes: Visit the [UTA Transfer Guide](#) to view Texas Common Core Number course number equivalents.

Visit the [UTA Catalog](#) to view general core curriculum requirements for elective courses.

COE Requirement: Two high school years or six credit hours of the same foreign language.