

2022-2023 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
OR 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 – 14 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 3185 – Intro to Mechatronics	1

Spring Semester – 17 Total Hours

Course	Hours
MAE 3304 – Astronautics 1	3
MAE 4314 – Mechanical Vibrations	3
MAE 3405 – Flight Dynamics	4
MAE 3306 – Flight Performance & Stability	3
MAE 3182 – Aerodynamics & Fluids Lab	1
U.S. History Elective 2	3

Fourth Year

Fall Semester – 18 Total Hours

Course	Hours
Technical Elective 1	3
MAE 4321 – Aerospace Propulsion	3
MAE 4350 – Aerospace Vehicle Design 1	3
COMS 2302 – Prof. & Technical Comm	3
ECON 2305 – Principles of Macroeconomics	3
OR 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.