

Suggested Transfer Pathway

Associate of Science in Engineering A.S. leading to
Bachelor of Science in Aerospace Engineering B.S.A.E Aeronautical Engineering Area of Emphasis
Total Credits: 66, Catalog Year: 2025–2026



College of Southern Maryland

(Courses may be taken in any order, pending prerequisites)

Year One – First Semester	Credits
EGR 1100 Introduction to Engineering	3
ENG 1010 Composition and Rhetoric	3
MTH 1200 Calculus I and Analytic Geometry	4
CHE 1200 & CHE 1200L General Chemistry I and Lab	4
Art Elective	3
TOTAL	17

Year One – Second Semester	Credits
EGR 1210 Statics	3
MTH 1210 Calculus II	4
PHY 1310 Calculus-Based Physics I: Mechanics and Fluids with Lab	4
ENG 1020 Composition & Literature	3
CHE 1210 & CHE 1210L General Chemistry II and Lab	4
TOTAL	18

Year Two – First Semester	Credits
MTH 2200 Calculus III	4
ECN 2020 Principles of Microeconomics	3
PHY 2300 Calculus-Based Physics II: Vibrations, Heat, and Electricity with Lab	4
EGR 2210 Dynamics	3
MTH 2210 Differential Equations	4
TOTAL	18

Year Two – Second Semester	Credits
PHY 2320 Calculus-Based Physics III: Magnetism, Optics, and Modern Physics with Lab	4
Social/Behavioral Science w/ CGA	3
EGR 2200 Mechanics of Materials	3
EGR 2320 Thermodynamics	3
TOTAL	13

Please see agreement for details.



College of Southern Maryland Contact:
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West Virginia University

(Courses may be taken in any order, pending prerequisites)

Year Three – First Semester	Credits
MAE 202 (Fall Only) Sophomore Seminar	1
MAE 212L Introduction to Computer Aided Design	1
MAE 216L Intermediate Engineering Computation	1
MAE 244L Dynamics and Strength Laboratory	1
MAE 316 Analysis of Engineering Systems	3
MAE 335 (Fall Only) Incompressible Aerodynamics	3
MAE 353 Intermediate Mechanics of Materials	3
Technical Elective (1)	3
TOTAL	16

Year Four – First Semester	Credits
MAE 426 (AoE/Fall Only) Flight Vehicle Propulsion	3
MAE 434 & MAE 434L (Fall Only) Experimental Aerodynamics and Lab	3
MAE 460 Automatic Controls	3
MAE 475S (AoE/Fall Only) Aircraft Design 1	3
Technical Elective (2)	3
TOTAL	15

Year Three – Second Semester	Credits
EE 221 & EE 221L	4
MAE 336 (Spring Only) Compressible Aerodynamics	3
MAE 345 (Spring Only) Aerospace Structures	3
MAE 365 (AoE/Spring Only) Flight Dynamics	3
MAE 476 Space Flight and Systems	3
TOTAL	16

Year Four – Second Semester	Credits
MAE 423 Heat Transfer	3
MAE 456 & MAE 456L Computer-Aided Design and Finite Element Analysis and Lab	3
MAE 485S (AoE/Spring Only) Aircraft Design 2	3
Technical Elective (3)	3
General Elective	3
TOTAL	15

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