

Suggested Transfer Pathway

College of Southern Maryland Associate of Science in Engineering A.S. leading to
West Virginia Bachelor of Science in Aerospace Engineering B.S.A.E – Astronautical
Total Credits: 62, Catalog Year: 2025–2026



College of Southern Maryland

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

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

Year One – Second Semester	Credits
COM 1010 Basic Principles of Speech Communication	3
EGR 1210 Statics	3
MTH 1210 Calculus II	4
PHYS 1310 Calculus-Based Physics I: Mechanics and Fluids with Lab	4
TOTAL	14

Year Two – First Semester	Credits
MTH 2200 Calculus III	4
MTH 2210 Differential Equations	4
PHY 2300 Calculus-Based Physics II: Vibrations, Heat, and Electricity with Lab	4
EGR 2210 Dynamics	3
TOTAL	15

Year Two – Second Semester	Credits
PHY 2320 Calculus-Based Physics III: Magnetism, Optics, and Modern Physics with Lab	4
SOC 2010 Technology and Society	3
EGR 2200 Mechanics of Materials	3
EGR 2320 Thermodynamics	3
Social/Behavioral Science w/ CGA	3
TOTAL	16

Please see agreement for details.



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advisor@csmd.edu

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West Virginia University

Year Three – First Semester	Credits
MAE 202 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 335 Incompressible Aerodynamics	3
MAE 215 Introduction to Aerospace Engineering	3
Technical Elective	3
Technical Elective	3
TOTAL	16

Year Four – First Semester	Credits
MAE 434 & MAE 434L Experimental Aerodynamics and Lab	3
MAE 466 Spacecraft Dynamics	3
MAE 484 Spacecraft Propulsion	3
MAE 486S Spacecraft Design 1	3
Technical Elective	3
TOTAL	15

Year Three – Second Semester	Credits
EE 221 & EE 221L	4
MAE 316 Analysis of Engineering Systems	3
MAE 336 Compressible Aerodynamics	3
MAE 353 Intermediate Mechanics of Materials	3
MAE 460 Automatic Controls	3
TOTAL	16

Year Four – Second Semester	Credits
MAE 345 Aerospace Structures	3
MAE 423 Heat Transfer	3
MAE 456 & MAE 456L or MAE 433	3
MAE 476 Space Flight and Systems	3
MAE 487S Spacecraft Design 2	3
TOTAL	15

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