

Students interested in pursuing a Bachelor of Science in the field of Aerospace Systems Engineering Technology may do so through the Individualized Deprogram (IDP), which allows for a combination of suggested course work across multiple departments with the flexibility to meet the needs of the individual student.

Recommended General Studies

Level I General Studies (13 SH minimum)

Composition: ENG 1010 & 1020.....6
Math: MTH 1110 College Algebra.....4
Communication: COMM 10103

Level II General Studies (21 SH minimum)

Historical: Approved course*3
Arts & Humanities-A&H: PHI 1030 Ethics....3

PLUS

2nd Approved Arts & Humanities course*3
Social Sciences: ECO 2010 & 20206
Natural Science: PHY 2311 Gen Physics I....4
PHY 2321 Laboratory1
Global Diversity Course..... 0-3

*Could also satisfy multicultural or global req.

Multicultural Requirement (3 SH minimum)

Multicultural Approved Elective 0-3

Recommended Courses for ASET-IDP

AES 2050 Av. History & Aerospace History
Dev.....3
AES 2607 Intro to Aerospace Sys Sim3
AES 3000 Aircraft Systems & Propulsion.....3
AES 3530 Aerodynamics⁺3
AES 3600 Space Flight Operations I⁺3
AES 3607 Orbital Mechanics & Aerospace
Systems Simulations3
AES 4601 Space Flight Operations II⁺3
AES 4602 Aerospace Comm Ops⁺3
AES 4603 Aerospace Ops Syst Anal
& Design⁺.....3
CHE 1800 General Chemistry I.....4
JMP 2610 Intro to Technical Writing3
EET 2000 Electric Circuits and Machines.....3
MET 1010 Manufacturing Processes3
MET 1200 Technical Drawing I3
MET 1310 Principles of Quality Assurance ...3
CET 2150 Mechanics I – Statics.....3
MET 2200 Materials of Engineering3
MET 3110 Thermodynamics3
MET 3160 Mechanics II – Dynamics3
CET 3135 Mechanics of Materials w/Lab4
MET 3185 Fluid Mechanics I3
MET 3410 Geom Dimensioning & Tol3
MET 4000 Project Engineering3

Recommended Courses for ASET-IDP (continued)

MTH 1120 College Trigonometry..... 3
MTH 1410 Calculus I.....4
MTH 2410 Calculus II.....4
PHY 2331 General Physics II.....4
PHY 2341 General Physics II Lab..... 1

Recommended Course Sequence (120-124 SH**)

Semester 1

CHE 1800 (4)
ENG 1010 (3)
MET 1010 (3)
MTH 1110 (4)
AES 2050 (3)

Subtotal 17

Semester 2

COMM 1010 (3)
ECO 2010 (3)
ENG 1020 (3)
AES 3600 (3)
MET 1200 (3)
MTH 1120 (3)

Subtotal 18

Semester 3

MET 1310 (3)
A&H elective (3)
MTH 1410 (4)
PHI 1030 (3)
JMP 2610 (3)

Subtotal 16

Semester 4

PHY 2311 (4)
PHY 2321 (1)
MTH 2410 (4)
History elective (3)
CET 2150 (3)

Subtotal 15

Semester 5

PHY 2331 (4)
PHY 2341 (1)
MET 2000 (3)
MET 3160 (3)
ECO 2020 (3)
EET 2000 (3)

Subtotal 17

Semester 6

MET 3110 (3)
CET 3135 (4)
MET 3185 (5)
AES 3000 (3)

Subtotal 15

Semester 7

AES 4601 (3)
AES 3530 (3)
MET 4000 (3)
Major electives (7)

Subtotal 16

Semester 8

AES 4602 (3)
AES 4603 (3)
MET 3410 (3)
Major electives (7)

Subtotal 16

⁺Students completing AES 2607 or 3620, 3600, 4601, 4602, and 4603 will also earn an MSU Denver certificate in Space Commercialization.

^{**}Students may need to take an elective not listed here to meet the 120 credit hour degree requirement.