



Center for Individualized Learning
Aerospace Physics

Students interested in pursuing a Bachelor of Science in the field of Aerospace Physics may do so through the Individualized Degree Program (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: CHE 1100 Prin of Chemistry
& CHE 1150 Principles of Chemistry Lab5
Global Diversity Course..... 0-3

*Could also satisfy multicultural requirements.

Multicultural Requirement (3 SH minimum)

Multicultural Approved Elective 0-3

Recommended Aerospace Physics-IDP

AES 2050 Av. History & Aerospace History
 Dev3
AES 3530 Aerodynamics⁺3
AES 3600 Space Flight Operations I⁺3
AES 4601 Space Flight Operations II⁺3
AES 4602 Aerospace Comm Ops⁺3
AES 4603 Aerospace Ops Syst Anal
 & Design⁺3
JMP 2610 Intro to Technical Writing3
MTH 1210 Introduction to Statistics4
MTH 1410 Calculus I4
MTH 2410 Calculus II4
MTH 2420 Calculus III.....4
MTH 3420 Differential Equations4
PHY 2311 General Physics I4
PHY 2321 General Physics I Lab1
PHY 2331 General Physics II4
PHY 2341 General Physics II Lab1
PHY 2711 Waves and Vibrations4
PHY 2811 Modern Physics I4
PHY 3711 Physical Lab I.....2
PHY 3011 Modern Physics II.....3
PHY 3211 Analytical Mechanics.....4
PHY 4611 Computational Physics.....2
PHY 4921 Physics Senior Seminar.....1
PHY 4950 General Relativity3

Recommended Course Sequence (120-124 SH)**

Semester 1

ENG 1010 (3)
MTH 1110 (4)
MTH 1210 (4)
COMM 1010 (3)

Subtotal 14

Semester 3

AES 3600 (3)
ECO 2010 (3)
PHY 2311 (4)
PHY 2321 (1)
MTH 2410 (4)

Subtotal 15

Semester 5

ECO 2020 (3)
MTH 3420 (4)
PHY 2711 (4)
PHY 2811 (4)

Subtotal 15

Semester 7

AES 4601 (3)
AES XXXX (3)
PHY 3211 (4)
PHY XXXX (3)
History elective (3)

Subtotal 16

Semester 2

AES 2050 (3)
CHE 1100 (4)
 & CHE 1150 (1)
ENG 1020 (3)
MTH 1410 (4)

Subtotal 14

Semester 4

JMP 2610 (3)
MTH 2420 (4)
PHY 2331 (4)
PHY 2341 (1)
A&H elective (3)

Subtotal 15

Semester 6

AES 3530 (3)
AES XXXX (4)
PHI 1030 (3)
PHY 3011 (3)
PHY 3711 (2)

Subtotal 15

Semester 8

AES 4602 (3)
AES 4603 (3)
AES XXXX (3)
PHY 4611 (2)
PHY 4921 (1)
PHY 4950 (3)

Subtotal 15

⁺Students completing AES 3530, 3600, 4601, 4602, and 4603 will also earn an MSU Denver certificate in Space Commercialization. This certificate will provide the student with the knowledge to seek opportunities in an important and expanding part of the Colorado and national economy, as well as expand opportunities for those currently employed in the industry.

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