

Physics Major Path to Graduate Study in Astrophysics

Required courses:

Physics: 2110/2111, 2120/2121, 3005, 3010, 3030, 3550/3551, 3700/3701, 3800, 4000/4001

Math: 1910, 1920, 2110, 3120

CSci: 2000

Engl: 2700

Major electives: 8 hours of science or math at any level, 10 hours of upper-level (3000 or higher) selected science/math electives (see catalog for full listing of options)

Recommended major electives:

Astr 1010/1011 (4), 1020/1021 (4), 2010 (1), 2020 (1), 3005/3006 (2), 3030/3031 (4), 4010 (3), 4020 (3); Phys 3100/3101 (4), 3740 (3), 4300 (3)

Freshman

Phys 2110/2111, University Physics I	5	Phys 2120/2121, University Physics II	5
Math 1910, Calculus & Analytic Geom. I	5	Math 1920, Calculus & Analytic Geom. II	5
Engl 1010, English Comp. I	3	Astr 1020/1021, Stellar Astronomy	4
APSU 1000 Freshman Experience	1	Engl 1020, English Comp. II	3
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Semester Total	14	Semester Total	17

Sophomore

Phys 3550/3551, Experimental Methods	4	Phys 3005, Theoretical Methods	4
Math 2110, Calculus III	3	Phys 3700/3701, Modern Physics	4
CSci 2000, Prog. & Data Struct. in C++	4	Math 3120, Differential Equations I	3
Astr 1010/1011, Planetary Astronomy	4	Engl 2700, Science Writing	3
Astr 2010, Probs in Planetary Astro	1	Astr 2020, Probs in Stellar Astro	1
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Semester Total	16	Semester Total	15

Junior

Phys 3010, Intermediate Mechanics	3	Phys 3100/3101, Optics	4
Phys 4000/4001, Computational Methods	4	Phys 3740, Thermal & Stat Physics	3
Astr 3005/3006, Observational Astro	2	Hist 2020, American History II	3
Hist 2010, American History I	3	Social/Behavioral Science Core	3
Engl 2030, Trad. in World Literature	3	Comm 1010, Fund. of Public Speaking	3
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Semester Total	15	Semester Total	16

Senior

Phys 3800, Quantum Mechanics	3	Phys 3030, Electricity & Magnetism	3
Astr 4010, Astrophysics I	3	Phys 4300, Image Processing	3
Astr 3030/3031, Methods & Instrument.	3	Astr 4020, Astrophysics II	3
Social/Behavioral Science Core	3	Humanities/Fine Arts Core	3
Humanities/Fine Arts Core	3		
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Semester Total	15	Semester Total	12

Total Hours

120