

University of Memphis Physics – Astronomy Concentration

First Year

Fall	Spring
Physics for Scientists and Engineers I (PHYS 2110) 3 cr.	Physics for Scientists and Engineers II (PHYS 2120) 3 cr.
Physics for Scientists and Engineers I Laboratory (PHYS 2111) 1 cr.	Physics for Scientists and Engineers II Laboratory (PHYS 2121) 1 cr.
Calculus I (MATH 1910) 4 cr.	Calculus II (MATH 1920) 4 cr.
General Chemistry I (CHEM 1110) 3 cr.	General Chemistry II (CHEM 1120) 3 cr.
General Chemistry I Laboratory (CHEM 1111) 1 cr.	General Chemistry II Laboratory (CHEM 1121) 1 cr.
GE English Composition (ENGL 1010) 3 cr.	GE English Composition/Analysis (ENGL 1020) 3 cr.
<i>Semester Total</i> 15 cr.	<i>Semester Total</i> 15 cr.

Second Year

Fall	Spring
Intermediate Physics (PHYS 2130) 4 cr.	Theoretical Physics (PHYS 3011) 3 cr.
Research in Physics I (PHYS 2990) 1 cr.	Introductory Astronomy and Astrophysics (PHYS 3050) 3 cr.
Modern Physics (PHYS 3010) 3 cr.	Introductory Astronomy and Astrophysics Laboratory (PHYS 3051) 1 cr.
Calculus III (MATH 2110) 4 cr.	Differential Equations (MATH 2120) 3 cr.
GE Oral Communication (COMM 2381) 3 cr.	GE Social/Behavioral Sciences Elective 3 cr.
<i>Semester Total</i> 15 cr.	<i>Semester Total</i> 16 cr.

Third Year

Fall	Spring
Life in the Universe (PHYS 3052) 3 cr.	Advanced Physics Methodology (PHYS 3060) 3 cr.
Observational Astronomy (PHYS 3053) 3 cr.	Research in Physics II (PHYS 3990) 2 cr.
GE Literary Heritage (ENGL 2201 or 2202) 3 cr.	GE History 3 cr.
GE History 3 cr.	GE Humanities/Fine Arts 3 cr.
UD Elective 3 cr.	GE Social/Behavioral Sciences 3 cr.
<i>Semester Total</i> 15 cr.	<i>Semester Total</i> 14 cr.

Fourth Year

Fall	Spring
Stellar and Galactic Astronomy (PHYS 4055) 3 cr.	Advanced Topics in Astronomy (PHYS 4300) 3 cr.
Extragalactic Astronomy (PHYS 4056) 3 cr.	GE Humanities/Fine Arts 3 cr.
UD Physics Elective 3 cr.	UD Elective 3 cr.
UD Elective 3 cr.	UD Elective 3 cr.
Elective 3 cr.	Elective 3 cr.
<i>Semester Total</i> 15 cr.	<i>Semester Total</i> 15 cr.