

# ASTRONOMY (BS)

## Suggested Sequence of Courses for a Bachelor of Science Degree in Astronomy

Course	Title	Hours
<b>Freshman Year</b>		
<b>First Semester</b>		
PHYS-2100 & PHYS-2101	Classical Physics I and Classical Physics I Lab	4
ASTR-1300	Sun & Solar System	4
MATH-1300	Calculus I	4
CHEM-1200	General Chemistry I Lecture	3
CHEM-1201	General Chemistry I Laboratory	1
GNST-1000	BC Experience	1
<b>Hours</b>		<b>17</b>
<b>Second Semester</b>		
PHYS-2110 & PHYS-2111	Classical Physics II and Classical Physics II Lab	4
ASTR-1400	Stars & Stellar Systems	4
MATH-1350	Calculus II	4
CHEM-1210	General Chemistry II Lecture	3
CHEM-1211	General Chemistry II Lab	1
<b>Hours</b>		<b>16</b>
<b>Sophomore Year</b>		
<b>First Semester</b>		
ASTR-3000	Observational Astronomy	3
EXSC-1115	Wellness for Life	1
MATH-2300	Calculus III	4
Foreign Language		4
PHYS-3200	Relativity & Atomic Physics	3
PHYS-3201	Modern Physics Lab	1
EXSC Fitness Course		1
<b>Hours</b>		<b>17</b>
<b>Second Semester</b>		
PHIL-1750	Principles of Nature	3
THEO-1100	Introduction to Theology	3
MATH-3100	Differential Equations	3
Foreign Language		4
PHYS-3210	Nuclear & Elementary Particle Physics	2
PHYS-3211	Modern Physics Lab II	1
<b>Hours</b>		<b>16</b>
<b>Junior Year</b>		
<b>First Semester</b>		
ASTR-4100	Introduction to Astrophysics	3
PHYS-4100	Mechanics I	3
Person and Community Foundation		3
PHYS-4900	Physics Colloquium	0
Faith Foundation		3
ENGL-1010	English Composition	3
Philosophical Inquiry		3
<b>Hours</b>		<b>18</b>

<b>Second Semester</b>		
ASTR-4300	Galaxies & Cosmology	3
CSCI-2300	Programming for Scientists & Engineers	3
Aesthetic Experience		3
PHYS-4110	Mechanics II	3
PHYS-4300	Optics	3
PHYS-4301	Optics Laboratory	1
PHYS-4901	Physics Colloquium	0
<b>Hours</b>		<b>16</b>
<b>Senior Year</b>		
<b>First Semester</b>		
ASTR-4200	Solar System Astrophysics	3
Historical Inquiry		3
PHYS-4400	Thermodynamics	3
PHYS-4600	Electricity & Magnetism I	3
PHYS-4800	Quantum Mechanics	3
PHYS-4902	Physics Colloquium	0
PHYS-4910	Physics & Astronomy Research	1
<b>Hours</b>		<b>16</b>
<b>Second Semester</b>		
PHYS-4610	Electricity & Magnetism II	3
Philosophical Inquiry		3
PHYS-4903	Physics Colloquium	0
Faith Foundation		3
Aesthetic Experience		3
Historical Inquiry Foundation		3
ASTR-COMP	Senior Comprehensive Exam	0
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>131</b>