

Department of Physics and Astronomy
University of Montana

BA in Physics: Astronomy Option
Degree Checklist

General Education Requirements:	Credits
English Writing Skills: <input type="checkbox"/> WRIT 101 (or placement out of WRIT 101)	0-3
<input type="checkbox"/> Intermediate Writing course	1-3
<input type="checkbox"/> Advanced Writing: PHSX 330 (or similar for double majors)	3
Symbolic Systems: <input type="checkbox"/> Fulfilled by Math Requirements below	0
Groups (at least 3 credits in each of these 8 groups)	21 - 27
<input type="checkbox"/> Expressive Arts (A) <input type="checkbox"/> Social Sciences (S)	
<input type="checkbox"/> Literary and Astristic Studies (L) <input type="checkbox"/> Ethics and Human Values (E)	
<input type="checkbox"/> Historical and Cultural Studies (H) <input type="checkbox"/> Natural Sciences (N) (6 credits for this group)	
<input type="checkbox"/> Democracy and Citizenship (Y) [may "double-dip" with other Gen Ed]	
<input type="checkbox"/> Cultural & International Diversity (X) [may "double-dip" with other Gen Ed]	
Physics and Astronomy Requirements:	
Lower Division Physics: <input type="checkbox"/> PHSX 215 <input type="checkbox"/> PHSX 216 <input type="checkbox"/> PHSX 217 <input type="checkbox"/> PHSX 218	10
Lower Division Astro: <input type="checkbox"/> ASTR 142	4
Upper Division Physics: <input type="checkbox"/> PHSX 301 <input type="checkbox"/> PHSX 311 <input type="checkbox"/> PHSX 343 <input type="checkbox"/> PHSX 461	
<input type="checkbox"/> PHSX 499	12
Upper Division Astro: <input type="checkbox"/> ASTR 353 <input type="checkbox"/> ASTR 363 <input type="checkbox"/> ASTR 365	9
An additional 9 credits in Physics (for a total of 31 credits in Physics)*	
<input type="checkbox"/> PHSX Elective <input type="checkbox"/> PHSX Elective <input type="checkbox"/> PHSX Elective	9
* These courses chosen from: <i>PHSX 320, 327, 423, 425, 446, 451, 462, 491, ASTR 351</i>	
Laboratory Course: <input type="checkbox"/> ASTR 362 or PHSX 323 or PHSX 444	3
Math Requirements:	
Lower Division Math: <input type="checkbox"/> M 171 <input type="checkbox"/> M 172 <input type="checkbox"/> M 273 (<i>Calc 1, 2, 3</i>)	12
<input type="checkbox"/> M 221 (<i>Linear Algebra</i>)	4
Additional Requirements:	
One computer science language course (PHSX 333, CSCI 100, CSCI 135, or CSCI 250)	
<input type="checkbox"/> Computer Science (<i>CSCI 250 or PHSX 333 strongly recommended</i>)	3
Total Required Credits:	91-102
Additional Checks:	
<input type="checkbox"/> At least 120 total credits	
<input type="checkbox"/> At least 39 upper-division credits	