

ASU-Main: College of Liberal Arts and Sciences  
 BIS Area of Concentration Check Sheet: **Physics and Astronomy**  
 Catalog Year(s): 2005-2006  
 Advising Location and Phone Number: PSF 470, (480) 965-3561

The Concentration in **Physics and Astronomy** prepares students to...

Course Number	Course Title	Lower Division	Upper Division	Course Pre-requisites	GS Designation(s)
M PHY 150 or M PHY 121 & M PHY 122	Physics I University Physics I: Mechanics University Physics Laboratory I	4		Y Y Y	SQ SQ <sup>1</sup> SQ <sup>1</sup>
M PHY 151 or M PHY 131 & M PHY 132	Physics II University Physics II: Electricity & Magnetism University Physics Laboratory II	4		Y Y Y	SQ SQ <sup>2</sup> SQ <sup>2</sup>
M PHY 201	Mathematical Methods in Physics I	3		Y	CS
M PHY 252	Physics III	4		Y	SQ
M PHY 302	Mathematical Methods in Physics II		2	Y	
M PHY 310	Classical Particles, Fields, and Matter I		3	Y	
M PHY 311	Classical Particles, Fields, and Matter II		3	Y	
M PHY 314	Quantum Physics I		3	Y	
M PHY 3**/4**			3	Y	
<b>Upper Division Hours Required</b>			<b>14</b>		
<b>Total Hours Required</b>			<b>29</b>		
Requirements: 1) "C" minimum grade required for all classes in the Physics area of concentration. 2) A minimum of six upper-division hours in the concentration must be taken in residence at ASU Main. 3) Electives for a concentration in Physics are chosen with the approval of the physics advisor from upper-division courses in physics.					
<b>Eligibility:</b>					
<b>Pre-registration:</b>					
<sup>1</sup> Both PHY 121 and 122 must be taken to secure SQ credit. <sup>2</sup> Both PHY 131 and 132 must be taken to secure SQ credit.					

**Requirements and Eligibility Notes:**

1. GPA requirements for graduation
2. GPA requirements to declare concentration
3. Pre-requisites—specific courses conditions (e.g. Junior standing)
4. Major status—BIS/pre-BIS and /or exclusions
5. Advisor approval required
6. Application required
7. Course sequencing/availability
8. Limits on transfer credits/Residence requirements
9. Pre-reg information (courses not available during pre-reg)
10. Information regarding overrides/exceptions
11. Any pertinent information not found elsewhere