Bachelor of Arts - Physics

Curriculum Map

	Program Goals							College Goals										
Course	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	10	11
AST 110	Yes					Yes	Yes						Yes					
AST 110G										Yes			Yes					
AST 395														Yes				
PHY 115	Yes			Yes			Yes						Yes[1]					
PHY 115L													Yes[1]					
PHY 116	Yes			Yes			Yes						Yes[2]					
PHY 116L													Yes[2]					
PHY 125	Yes			Yes			Yes						Yes					
PHY 126	Yes			Yes			Yes						Yes					
PHY 220	Yes	Yes	Yes										Yes[3,4]	Yes				
PHY 230	Yes	Yes	Yes										Yes[3]					
PHY 280				Yes	Yes		Yes					Yes	Yes[4]	Yes				
PHY 290			Yes	Yes	Yes													
PHY 300	Yes		Yes		Yes													
PHY 301	Yes		Yes				Yes											
PHY 330	Yes		Yes		Yes													
PHY 395			Yes	Yes	Yes									Yes				
PHY 542	Yes			Yes			Yes											
PHY 543	Yes			Yes			Yes											

[1 - 4] Fulfillment requires completion of both courses.

Program Goals

1. Construct arguments using a logical progression of steps from premise to conclusion.
2. Construct models and realize the limitation of those models.
3. Communicate with clear and concise expression.
4. Extrapolate and apply current knowledge to new situations.
5. Address complex issues that require a synthesis of knowledge of seemingly unconnected areas of physics.
6. Acquire a propensity to look beyond 'common sense' solutions and to apply critical thought to problems.
7. Synthesize and integrate conceptual information and mathematical skills.

General Education / Liberal Education Requirements (College Goals)

1. Students must demonstrate proficiency in written communication.
2. Students must demonstrate proficiency in a foreign language through the intermediate level.

3. Students must become informed global citizens and gain intercultural awareness through a study abroad experience.
4. Students must become acquainted with different ages, societies, and cultures and learn how to use a variety of historical sources.
5. Students must be able to reason abstractly and appreciate the elegance of abstract structure.
6. Students must understand the methods of scientific discovery and experimental design.
7. Students must acquire problem-solving and research capability by identifying, locating, evaluating, and effectively using information.
8. Students must be able to analyze and understand the creative process, assimilate experience, and communicate it.
9. Students must be able to interpret words, images, objects, and/or actions that are expressions of human culture.
10. Students must understand the complex nature of social structures and/or human relationships that involve issues of inequality and difference.
11. Students must explore ecological, policy, social, cultural, and/or historical dimensions of human relationship to the environment.