

Fiscal Unit/Academic Org	Physics - D0684
Administering College/Academic Group	Mathematical And Physical Sci
Co-administering College/Academic Group	
Semester Conversion Designation	Converted with minimal changes to program goals and/or curricular requirements (e.g., sub-plan/specialization name changes, changes in electives and/or prerequisites, minimal changes in overall structure of program, minimal or no changes in program goals or content)
Current Program/Plan Name	Physics
Proposed Program/Plan Name	Physics
Program/Plan Code Abbreviation	PHYSICS-BS
Current Degree Title	Bachelor of Science

Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		173	115.3	116	0.7
Required credit hours offered by the unit	Minimum	51	34.0	39	5.0
	Maximum	79	52.7	52	5.0
Required credit hours offered outside of the unit	Minimum	27	18.0	18	0.0
	Maximum	70	46.7	48	0.0
Required prerequisite credit hours not included above	Minimum	0	0.0	0	0.0
	Maximum	0	0.0	0	0.0

Explain any change in credit hours if the difference is more than 4 semester credit hours between the values listed in columns B and C for any row in the above table

There is a small increase of 5 credit hours in the minimum required hours offered by the unit. However, this increase is in our "Applied Physics" option, which now has 18 hours of electives which can be chosen by the student. The electives in this option are in fact increased by approximately 50% compared to the current quarter option.

Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

Program Learning Goals

- Undergraduate Physics majors will acquire a basic mastery of fundamental areas of physics, from classical mechanics, through electricity and magnetism, and finally to modern physics including quantum mechanics and relativity.
- Undergraduate Physics majors will develop powerful analytical and problem solving skills in areas involving both physics and mathematics.
- Undergraduate Physics majors will acquire a basic mastery of experimental physics.
- Undergraduate Physics majors will acquire a basic mastery of data reduction and error analysis.
- Undergraduate Physics majors will be able to effectively communicate their physical understanding both professionally and colloquially (orally and in writing).
- Undergraduate majors will be apprised of and encouraged to participate in academic research, industrial research and/or outreach activities which are consistent with their interest, ability and postgraduate plans.
- Undergraduate majors will acquire expertise relevant to their chosen program option.

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? Yes

Does the degree program or major have an assessment plan on file with the university Office of Academic Affairs? Yes

Summarize how the program's current quarter-based assessment practices will be modified, if necessary, to fit the semester calendar.

For our assessment, we use a variety of direct and indirect methods, none of which depend upon whether the program is run under quarters or semesters. As a result, we do not anticipate any changes to our assessment practices under the semester system.

Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Pre-Major

Does this Program have a Pre-Major? No

Attachments

- courseListingAndConversion.pdf: Curricular Map
(Curricular Map(s). Owner: Hughes,Richard E)
- physicsMajorAttachment2.pdf: Items for attachment #2.
(Program Proposal. Owner: Hughes,Richard E)

Comments

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Hughes,Richard E	10/11/2010 09:34 PM	Submitted for Approval
Pending Approval	Hughes,Richard E Bundschuh,Ralf Andreas	10/11/2010 09:34 PM	Unit Approval