

UNIVERSITY OF WASHINGTON
CREATING AND CHANGING UNDERGRADUATE
ACADEMIC PROGRAMS

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After college/school/campus review, send a signed original and 1 copy to the Curriculum Office/FCAS, Box 355850.

For information about when and how to use this form: http://depts.washington.edu/uwcr/1503instructions.pdf

College/Campus Arts	& Sciences	Department/Unit	Physics	Date 2/18/15	
New Programs					
Leading to a Bachelor of					
Leading to a Bachelor of	degree with a maj	jor in			
Leading to a Option w	vithin the existing ma	jor in			
Leading to a minor in					
Changes to Existing Programs New Admission Requirements for the Major in within the Bachelor of					
Revised Admission Requirements for the Major in within the Bachelor of					
Revised Program Requirements for the Major in within the Bachelor of					
X Revised Requirements for the Option in <u>Teacher Preparation</u> within the major in <u>Physics</u> .					
Revised Requirements for the Minor in					
Other Changes					
 ☐ Change name of program from to ☐ Change delivery method or location of program. ☐ New or Revised Continuation Policy for ☐ New Honors Requirements for ☐ Eliminate program in 					
Proposed Effective Date: Quarter: Autumn Winter Spring Summer Year: 20 15					
Contact Person: Marjorie Olmstead	Phone	: 5-3031 Email: olmstd@	9uw.edu	Box: 351560	
EXPLANATION OF AND RATIONAL				THE RESERVE OF THE PARTY OF	
For new program, please include letters of support and department			tudent learning outcomes, pro	jected enrollments,	
This is not a change in re proposed changes to the Ap (required of all options) to a	quirements for t plied and Bioph	the Teacher Preparati ysics options require	moving Physics 226 from	om the core	
OTHER DEPARTMENTS AFFECTED					
List all departments/units/ or co-accredited programs affected by your new program or changes to your existing program and acquire the signature of the chair/director of each department/unit listed. Attach additional page(s) if necessary. *See online instructions.					
the signature of the chair/director Department/Unit: NONE	of each department/i Chair/Program Dire		page(s) if necessary. "See onl	Date:	
Department/Unit:	Chair/Program Dire			Education of the second	

Catalog Copy as currently written, include only sections/paragraphs that would be changed in out or otherwise highlight any deletions.	your request is approv	red. Please cross
1. Physics core courses (40 credits): PHYS 121, PHYS 122, PHYS 123, PF PHYS 227, PHYS 294, PHYS 321, PHYS 322, PHYS 334	IYS 224, PHYS 22	5, PHYS 226 ,
3.d Teacher Preparation Option (35-39 credits):	•	
 i. 41-12 credits from PHYS 228; PHYS 324; one course from PHYS 323, P 	HYS 328, PHYS 3	29
PROPOSED CATALOG COPY		
Reflecting requested changes (Include exact wording as you wish it to be shown in the printe highlight any additions. If needed, attach a separate, expanded version of the changes that replease note: all copy will be edited to reflect uniform style in the General Catalog.		
1. Physics core courses (37 credits): PHYS 121, PHYS 122, PHYS 123,	PHYS 224, PHYS	225, PHYS
227, PHYS 294, PHYS 321, PHYS 322, PHYS 334	:	
3.d Teacher Preparation Option (38-42 credits):i. 14-15 credits from PHYS 226; PHYS 228; PHYS 324; one course from P	HVS 303 PHVS 3	28 PHVS 220
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APPROVALS Chair/Program Director: ,/ / /	:	Date:
BA-lle-la		
College/School/Campus Ouricalum Committee:	i	3/18/15 Date:
Our Contract		ballet.
Mange Company	:	2/19/15
Dean/Vice Chancellor:	ı	Date:
	•	2/19/15
Faculty Council on Aéademic Standards/ General Faculty Organization/Faculty Assembly Chair:	:	Date:
POST TRI-CAMPUS APPROVAL (when needed)		
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:		Date:

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SUMMARY

Physics 226, Particles and Symmetries, is currently required of all physics majors. Prior to the creation of options within the physics major in Autumn 2011, Physics 226 was not required, but was rather an option where students could take either Phys 226 or Phys 324. Physics 226 covers special relativity and the physics of sub-atomic particles. Many students in our Applied Physics and Biophysics Options have trouble relating these topics to their career goals, and would be better served by one of our upper-division electives. We thus propose to replace the requirement of Physics 226 with a choice from a menu of courses that includes Physics 226. Thus, any student planning their schedule under the old rules will still be able to graduate in their choice of option; they may, however, substitute a 300-level elective from a menu for this class. [Note: Physics 324 is already required for the Biophysics Option, and is a pre-requisite for Physics 325, hence the difference between the menus for the Applied Physics and Biophysics Options.] We chose not to change the Comprehensive Physics and Teaching Preparation options, since an understanding of relativity and sub-atomic particles is important for people who plan careers either teaching or researching in physics. This change was approved by departmental faculty vote on 04 Feb 2015.

Major Requirements Proposed Changes

- I *Physics core courses (40 <u>37</u> credits):* PHYS 121, PHYS 122, PHYS 123, PHYS 224, PHYS 225, PHYS 226, PHYS 227, PHYS 294, PHYS 321, PHYS 322, PHYS 334
- a Comprehensive Physics Option (35-40 38-43 credits):
- i <u>17 20-22</u> credits from <u>PHYS 226; PHYS 228; PHYS 324; minimum three courses from PHYS 323, PHYS 325, PHYS 328, PHYS 329, ASTR 321, or ASTR 322</u>
- b Applied Physics Option (31-35 34-39 credits):
- i PHYS 231; one course from PHYS 226, PHYS 323, PHYS 324, PHYS 329; and AMATH 301 (7 10-11 credits)
- c Biophysics Option (48-52 51-56 credits):
- i PHYS 228; PHYS 324; PHYS 328; PHYS 429; one course from PHYS 226, PHYS 323, PHYS 325, PHYS 329 (14 17-18 credits)
- d Teacher Preparation Option (35-39 38-42 credits):
- i 11-12 14-15 credits from PHYS 226; PHYS 228; PHYS 324; one course from PHYS 323, PHYS 328, PHYS 329