PHYSICS POST-BACCALAUREATE CERTIFICATION

For post-baccalaureate information please see the "Certification" section of the Graduate Course Catalog.

Advanced Professional Studies - Post-Bacc Cert

Code	Title	Hours
*Clearances are valid for one year from the date that appears in the header of this degree audit in the field 'Clearance Date.' Clearances cannot expire in the middle of a semester.		
COURSE REQUIREMENTS FOR APS		
FOUNDATIONS COURSES - Choose 1 of the following options 1-2:		6
Option 1. Foundations Graduate Level		
EDFN 590	Social Foundation of Educ	
EDFN 545	Advanced Educational Psychology	
Option 2. Foundations Undergraduate Level		
EDFN 211	Foundations Modern Education	
EDFN 241	Psychological Foundations of Teaching	
ACT 126 - Educator Ethics Training		
You must submit your Educator Ethics Training (If applying to APS AFTER Jan 15, 2020)		
3.0 Minimum Cert GPA		
undefined - See separate block		
If you are given the 2.8 GPA Exception for graduation and you graduate with a GPA lower than 3.0, you must have higher certification test scores in order to meet PA state certification requirements.		
No dispositions-related holds		
If the requirement above is checked as complete, then there are currently no dispositions-related holds on your APS Status. Registration for APS courses is permitted when all APS requirements have been met. If it is incomplete, you have a hold and APS registration will not be allowed.		
APS registration status		
You ARE NOT eligible to register for courses requiring APS status.		
Application for APS status		
When all requirements are met, you must submit application for admission to APS status. Click here for the application.		
Total Hours		**6**

Major in Physics, Post-Bacc Certification

Code	Title	Hours
Credits Required for Major		
	true	
Minimum GPA 2.0 for Major		
	true	
REQUIRED PHYSICS COURSES		
PHYS 198	Seminar In Physics	0
PHYS 231	Physics 1 with Calculus (C- or better)	0
PHYS 232	Physics 2 with Calculus (C- or better)	0
PHYS 233	Wave-Particle Theory	3
PHYS 266	Electronics	3
PHYS 311	Mechanics 1	3
PHYS 321	Electromagnetic Fields 1	3
PHYS 334	Macroscopic Physics	3
PHYS 335	Quantum Systems	3
PHYS 351	Intermediate Physics Lab 1	0
PHYS 352	Intermediate Physics Lab 2	1
Research Seminar - Choose 2 hours from:		2
PHYS 492	Physics Research and Seminar	
PHYS 498	Independent Study/Research	1
Total Hours		**22**

Req Related for Physics, Post-Bacc Certification

Code	Title	Hours
MATHEMATICS		
Calculus I(C- minimum) or Calculus Honors		4
MATH 161	Calculus 1	
MATH 211	Calculus 2 (C- minimum)	4
MATH 311	Calculus 3	4
Ord Diff Equations		3
MATH 365	Ordinary Differential Equation	
CHEMISTRY		
CHEM 111	Introductory Chemistry 1	0
CHEM 112	Introductory Chemistry 2	0
EARTH SCIENCE OR PHYSICS ELECTIVE		
Intro to Astronomy Astrophysics		3
PHYS 317	Introduction to Astronomy	
ESCI 241	Meteorology	0
Total Hours		**18**

Professional Education - Certification

Code	Title	Hours
FOUNDATIONS BLOC		
We recommend 590 and 545 for Post-Bacc students. These courses each require 35 hours field placement at an urban school. Offered in the evenings Fall and Spring. Also offered in Summer Session. If enrolling in EDFN 211/241, please register for both courses in the same block.		
Foundations of Modern Education - Choose 1 of the following:		3
EDFN 590	Social Foundation of Educ	
EDFN 211	Foundations Modern Education	
Psychological Foundations of Teaching - Choose 1 of the following:		3
EDFN 545	Advanced Educational Psychology	
EDFN 241	Psychological Foundations of Teaching	
APS - PROFESSIONAL BLOC		
Students must meet APS eligibility requirements prior to registering. Course Appropriate PRAXIS II Exam should be taken after Professional Bloc, but prior to Student Teaching.		

Instructional Technology, Design Assessment - Choose 1 of the following:		3
EDFN 530	Instructional Technology, Design and Assessment	
EDFN 330	Instructional Technology, Design & Assessment	
Issues in Secondary Education - Choose 1 of the following:		3
EDSE 521	Issues in Second Education	
EDSE 321	Issues in Secondary Education	
Content Area Literacy for Diverse Classrooms - Choose 1 of the following:		3
EDSE 340	Content Area Literacy for Diverse Classrooms	
EDSE 540	Cntnt Area Litrcy Divers Class	
Secondary Students w/Disabilities in Inclusive Settings - Choose 1 of the following:		3
SPED 346	Secondary Students w/Disabilities in Inclusive Settings	
SPED 546	Sec Stdnts w Disab Inclu Sttgs	
EDSE 435	Teaching of Science in Secondary Schools	3
STUDENT TEACHING SEMINAR		
File your Intent to Student Teach Card one year prior to the beginning of the semester in which you wish to Student Teach. Click here to access the Student Teaching Website		
EDSE 471	Student Teaching Seminar	3
STUDENT TEACHING SEMESTER		
Students must meet APS eligibility requirements prior to registering. Submit your Teacher Certification Packet 90 days prior to completion of your certification program. Click here to access the packet on the Certification Website.		
EDSC 461 & EDSC 462	Student Teaching in Science and Student Teaching in Science	9
Total Hours		**33**