MATHEMATICS POST-BACCALAUREATE CERTIFICATE

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 Mathematics, Post-Baccalaureate Cert Title Code Hours Credits Required for Major true Minimum GPA 2.0 for Major

true **REQUIRED MATHEMATICS COURSES** A grade of C- or higher is required in all required math courses, except MATH 464.

MATH 161Calculus 14MATH 211Calculus 24History of MathematicsMATH 301History of Mathematics3MATH 301History of Mathematics3MATH 301History of Mathematics3MATH 301Intro to Mathematical Proof3MATH 310Intro to Mathematical Proof4MATH 311Calculus 34Linear Algebra 1- Choose 1 of the following:4MATH 322Linear Algebra 14MATH 322Linear Algebra 14MATH 504Modern Algebra 634MATH 4054Abstract Algebra 134MATH 4054Modern Algebra 634following:MATH 355Transformational Geometry54MATH 4505Classical & Modern Geometry3MATH 4505Topics in Geometry3MATH 4505Topics in Geometry3MATH 4505Topics in Geometry3MATH 464Real Analysis 13MATH 4505Topics in Geometry3MATH 464Real Analysis for Teachers3STATISTICS REQUIREMENT - Choose 1 of the following options 1-2:4-6Option 1. Intro to Probability and Statistics 14MATH 333Probability and Statistics 14MATH 335Mathematical Stat	MATH 464.		
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MATH 393Number TheoryMATH 395Introduction CombinatoricsMATH 408Topics in MathematicsMATH 418Topics in Math EducationMATH 422Linear Algebra 2MATH 435Mathematical Statistics 2MATH 438Topics in Statistics	MATH 370	Operations Research	
MATH 395Introduction CombinatoricsMATH 408Topics in MathematicsMATH 418Topics in Math EducationMATH 422Linear Algebra 2MATH 435Mathematical Statistics 2MATH 438Topics in Statistics	MATH 375	Numerical Analysis	
MATH 408Topics in MathematicsMATH 418Topics in Math EducationMATH 422Linear Algebra 2MATH 435Mathematical Statistics 2MATH 438Topics in Statistics	MATH 393	Number Theory	
MATH 418Topics in Math EducationMATH 422Linear Algebra 2MATH 435Mathematical Statistics 2MATH 438Topics in Statistics	MATH 395	Introduction Combinatorics	
MATH 422Linear Algebra 2MATH 435Mathematical Statistics 2MATH 438Topics in Statistics	MATH 408	Topics in Mathematics	
MATH 435Mathematical Statistics 2MATH 438Topics in Statistics	MATH 418	Topics in Math Education	
MATH 438 Topics in Statistics	MATH 422	Linear Algebra 2	
•	MATH 435	Mathematical Statistics 2	
MATH 445 Abstract Algebra 2	MATH 438	Topics in Statistics	
	MATH 445	Abstract Algebra 2	

Total Hours			
	Any 6-level MA	TH course(s)	
	MATH 592	Graph Theory	
	MATH 577	Problems in Applied Math	
	MATH 566	Complex Variables	
	MATH 536	Statistical Methods 2	
	MATH 535	Statistical Methods 1	
	MATH 503	Probability and Stats for Tchr	
	MATH 498	Independent Study	
	MATH 483	Point-Set Topology	
	MATH 478	Topics in Applied Mathematics	
	MATH 472	Financial Mathematics II	
	MATH 471	Mathematical Modeling	
	MATH 467	Partial Differential Equations	
	MATH 465	Real Analysis 2	
	MATH 457	Elementary Differentl Geometry	

Req Related for Mathematics, Post-Bacc Cert

Code	Title	Hours	
REQUIRED RELATED COURSES			
Intro. to Computing I		4	
CSCI 161	Introduction to Programming 1		
CSCI 140	Discrete Structures	4	
Total Hours		8	

Professional Education - Certification

Code	Title H	ours
FOUNDATIONS B	BLOC	
each require 35 h in the evenings F	590 and 545 for Post-Bacc students. These courses hours field placement at an urban school. Offered fall and Spring. Also offered in Summer Session. If I 211/241, please register for both courses in the	
Foundations of M	Nodern Education - Choose 1 of the following:	Э
EDFN 590	Social Foundation of Educ	
EDFN 211	Foundations Modern Education	
Psychological Fo	oundations of Teaching - Choose 1 of the following:	З
EDFN 545	Advanced Educational Psychology	
EDFN 241	Psychological Foundations of Teaching	
APS - PROFESSI	ONAL BLOC	
Course Appropria	neet APS eligibility requirements prior to registering. hte PRAXIS II Exam should be taken after c, but prior to Student Teaching.	
Issues in Second	ary Education - Choose 1 of the following:	З
EDSE 521	Issues in Second Education	
EDSE 321	Issues in Secondary Education	
Content Area Lite following:	eracy for Diverse Classrooms - Choose 1 of the	3
EDSE 340	Content Area Literacy for Diverse Classrooms	
EDSE 540	Cntnt Area Litrcy Divers Class	
Secondary Stude the following:	nts w/Disabilities in Inclusive Settings - Choose 1 of	f 3
SPED 346	Secondary Students w/Disabilities in Inclusive	

SPED 546	Sec Stdnts w Disab Inclu Sttgs	
MATH 405	Teaching Math in Secondary Schools 2	3
STUDENT TEACH	ING SEMINAR	
File your Intent to Student Teach Card one year prior to the beginn 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.		
Student Teaching	- Choose 9 hours from:	9
EDMA 461	Student Teaching in Math	
EDMA 462	Student Teaching in Math	
Total Hours		30