

MATHEMATICS POST-BACCALAUREATE CERTIFICATE

Advanced Professional Studies - Post-Bacc Cert

Code	Title	Hours
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*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

Code	Title	Hours
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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 161 Calculus 1 4

MATH 211 Calculus 2 4

History of Mathematics - Choose 1 of the following: 3

MATH 301 History of Mathematics

MATH 603 History of Mathematics

Intro Math Proof - Choose 1 of the following: 3

MATH 310 Intro to Mathematical Proof

MATH 520 Logic and Foundations of Math

MATH 311 Calculus 3 4

Linear Algebra I - Choose 1 of the following: 4

MATH 322 Linear Algebra 1

MATH 502 Linear Algebra

Abstract Algebra I - Choose 1 of the following: 3

MATH 345 Abstract Algebra 1

MATH 504 Modern Algebra for Teachers

Survey of Geometry or Transfrmtnl Geometry - Choose 1 of the following: 3-4

MATH 353 Survey of Geometry

MATH 355 Transformational Geometry

MATH 505 Classical & Modern Geometry

MATH 650 Topics in Geometry

Real Analysis I - Choose 1 of the following: 3

MATH 464 Real Analysis 1

MATH 506 Modern Analysis for Teachers

REQUIRED OPTION COURSES

STATISTICS REQUIREMENT - Choose 1 of the following options 1-2: 4-6

Option 1. Intro to Probability and Statistics - Choose 1 of the following:

MATH 333 Probability and Statistics

MATH 503 Probability and Stats for Tchrs

Option 2. Math Statistics I and Statistics II - Choose 2 of the following:

MATH 335 Mathematical Statistics 1

MATH 435 Mathematical Statistics 2

MATH 535 Statistical Methods 1

MATHEMATICS ELECTIVES - Choose 6 hours from: 6

MATH 333 Probability and Statistics

MATH 335 Mathematical Statistics 1

MATH 353 Survey of Geometry

MATH 355 Transformational Geometry

MATH 365 Ordinary Differential Equation

MATH 370 Operations Research

MATH 375 Numerical Analysis

MATH 393 Number Theory

MATH 395 Introduction Combinatorics

MATH 408 Topics in Mathematics

MATH 418 Topics in Math Education

MATH 422 Linear Algebra 2

MATH 435 Mathematical Statistics 2

MATH 438 Topics in Statistics

MATH 445 Abstract Algebra 2

MATH 457 Elementary Differentl Geometry

MATH 465 Real Analysis 2

MATH 467 Partial Differential Equations

MATH 471	Mathematical Modeling
MATH 472	Financial Mathematics II
MATH 478	Topics in Applied Mathematics
MATH 483	Point-Set Topology
MATH 498	Independent Study
MATH 503	Probability and Stats for Tchr
MATH 535	Statistical Methods 1
MATH 536	Statistical Methods 2
MATH 566	Complex Variables
MATH 577	Problems in Applied Math
MATH 592	Graph Theory
Any 6-level MATH course(s)	

Total Hours **41-44**

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	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.		
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	
MATH 405	Teaching Math in Secondary Schools 2	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.

Student Teaching - Choose 9 hours from: 9

EDMA 461 Student Teaching in Math

EDMA 462 Student Teaching in Math

Total Hours **30**