WEST CHESTER UNIVERSITY B.S.ED. IN MATHEMATICS

B.S.ED. IN MATHEMATICS

College of Education and Social Work

Curriculum

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catalog.wcupa.edu/ requirements/)	Title CATION REQUIREMENTS (http://undergraduate/general-education-	Credits
Academic Foundati	ions	
First Year Experience	e requirement	4
English Compositio	n requirement	6-7
Mathematics require	ement	3-4
Interdisciplinary req	uirement	3
Diverse Communiti	es requirement	3
Ethics requirement		3
Distributed Discipl	linary Foundations	
Science requirement		6-8
Behavioral & Social Science requirement		6
Humanities requirement ¹		6
Arts requirement		3
ADDITIONAL BA	ACCALAUREATE	
	S (http://catalog.wcupa.edu/ eral-education-requirements/)	
University Requires	ments	
Writing Emphasis re	equirement	9
Speaking Emphasis requirement		9
Degree Requiremen	nts	
Capstone requireme		1-15
MAJOR REQUIR		
Education Core Co		
EDF 300	Democracy and Education	3
EDP 280	Developmental and Psychological Perspectives in Education	3
EDA 103	Foundations of Special Education	3
EDA 303	Special Ed: Processes/Procedures for General Educators	2
EDR 347	Literacy Development and Secondary Students with Disabilities in Inclusive Classrooms	3
LAN/ENG 382	Teaching English Language Learners PK-12	3
ERM 355	Ethical and Effective Assessment for Learning 7-12	3
SED 100	An Exploration of Secondary Education	3
SED 200	Learning Environments and Field Experience in Secondary Schools	3
SED 300	Principles of Teaching and Technology in the Secondary Classroom	3
Mathematics Educa	ation Requirements ²	
SED 350	Techniques of Teaching Middle School Mathematics	3
SED 354	Techniques of Teaching Secondary School Mathematics	3
SED 356	Advanced Perspectives of High School Mathematics I	3
SED 357	Advanced Perspectives of High School Mathematics II	3
Mathematics Requi	irements ²	

MAT 161	Calculus I	4
MAT 162	Calculus II	4
MAT 200	The Nature of Mathematics	3
MAT 261	Calculus III	4
MAT 311	Linear Algebra	3
MAT 411	Algebra I	3
MAT 421	Mathematical Statistics I	3
MAT 441	Real Analysis I	3
Mathematics - Ed	ucation Core & Electives ²	
MAT 331	Foundations of Geometry	3
MAT 343	Differential Equations	3
MAT 401	History of Mathematics	3
	om upper-division (300 level or s courses; at least one course in applied	6
Cognate Requiren	nents ²	
PHY 170	Physics I	4
CSC 141	Computer Science I	3
Capstone Require	ment ²	
SED 411	Student Teaching Sec - 1st Half ³	6
SED 412	Student Teaching Sec - 2nd Half ³	6
Total Minimum C	127	

¹ A LIT course is required for this program.

² Courses must be passed with a grade of C- or better

This course fulfills the Capstone requirement.

All students seeking a B.S.Ed. must formally apply for Teacher Candidacy (see Educator Preparation Programs (http://catalog.wcupa.edu/undergraduate/education-social-work/educator-preparation-programs/) in this catalog). Only those students who achieve Teacher Candidacy will be eligible to enroll in SED 350.

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Progress Report (DPR) via myWCU regularly. For more information, visit wcupa.edu/DegreeProgressReport (http://wcupa.edu/degreeprogressreport/).

The following is a sample suggested course sequence for this program; course offerings and availability are not guaranteed. Students should consult their academic advisor with any questions.

Course	Title	Credits
Year One		
Semester Or	ne	
MAT 161	Calculus I	4
CSC 141	Computer Science I	3
WRT 120	Effective Writing I	3
FYE 100X	First Year Experience	4
Humanities Gen Ed (LIT)		3
	Credits	17
Semester Tw	70	
MAT 162	Calculus II	4
MAT 200	The Nature of Mathematics	3
SED 100	An Exploration of Secondary Education	3
EDP 280	Developmental and Psychological Perspectives in Education	3
WRT 2XX	200-Level WRT Course	3
	Credits	16

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Year Two		
Semester Thi MAT 261	ree Calculus III	4
MAT 311		3
PHY 170	Linear Algebra Physics I	4
EDF 300	Physics I Democracy and Education	3
EDA 103	Foundations of Special Education	3
EDA 103	Credits	17
Semester Fou		17
MAT 343	Differential Equations	3
MAT 441	Real Analysis I	3
SED 200	Learning Environments and Field	3
	Experience in Secondary Schools	
SED 356	Advanced Perspectives of High School Mathematics I	3
EDA 303	Special Ed: Processes/Procedures for General Educators	2
Behavioral &	Social Science Gen Ed	3
	Credits	17
Year Three		
Semester Fiv	re	
MAT 411	Algebra I	3
SED 300	Principles of Teaching and Technology in the Secondary Classroom	3
SED 350	Techniques of Teaching Middle School Mathematics	3
SED 357	Advanced Perspectives of High School Mathematics II	3
ERM 355	Ethical and Effective Assessment for	3
	Credits	15
Semester Six		13
MAT 331	Foundations of Geometry	3
MAT 421	Mathematical Statistics I	3
SED 354	Techniques of Teaching Secondary School Mathematics	3
LAN 382	Teaching English Language Learners	3
or ENG 382	PK-12 or Teaching English Language	
21.0002	Learners PK-12	
EDR 347	Literacy Development and Secondary	3
	Students with Disabilities in Inclusive	
D 1 . 10	Classrooms	2
Behavioral &	Social Science Gen Ed Credits	3
Year Four	Credits	18
Semester Sev	70.00	
SED 411	Student Teaching Sec - 1st Half ¹	4
SED 411	Student Teaching Sec - 1st Hair Student Teaching Sec - 2nd Half ¹	6
SED 412	Credits	12
Semester Eig		12
MAT 401	History of Mathematics	3
MAT XXX	Applied Math Elective	3
MAT XXX	Math Elective	3
Arts Gen Ed		3
Humanities (3
	Credits	15
	Total Credits	127
	TOTAL CICALIS	14/

¹ Field course. Clearances required.