Undergraduate-Level Teacher Certification Checklist (Undergrad-level Post-Baccalaureate) SECONDARY MATH (Grades 9-12)



Education department

POST BACCALAUREATE STUDENTS ARE ONLY ELIGIBLE TO TAKE COURSES REQUIRED FOR CERTIFICATION. NON-CERTIFICATION COURSES ARE NOT COVERED BY FINANCIAL AID.

NTENT	ITENT AREA COURSEWORK FOR MATH			
			Cr	
Grade	Course #	Course Title	Hrs	
	Calculus and	Geometry (9 hrs)		
	MATH 201	Calculus and Analytical Geometry I	5	
	MATH 222	Calculus and Analytical Geometry II	5	
	I	,		
		College Algebra (Algebraic Structures 3 hrs) (Optional courses		
	MATH 150	for this category: MATH 303 – Linear Algebra [if not used		
		below] or MATH 304 – Introduction to Abstract Algebra)	3	
	MATH 331	Foundations of Geometry (Geometry 3 hrs)	3	
	Choose:	COSC 176 - Introduction to Computer Science or COSC 145 -		
		Introduction to Python Programming (Computer Science 3 hrs)	3	
		Math Electives: 6 hours from the above listed categories.		
		MATH 155 – Algebraic Reasoning for Elementary and Middle		
		School Teachers (Recommended)		
		MATH 165 – Geometric Reasoning for Elementary and Middle		
		School Teachers (Recommended)		
	Electives:	MATH 180 – Precalculus		
		MATH 215 – Differential Calculus		
		MATH 226 – Integral Calculus I		
		MATH 235 – Integral Calculus II		
		MATH 304 – Introduction to Abstract Algebra		
		MATH 380 – Advanced Calculus	6	
	Minimum two	elve (12) hrs from at least three of the following areas:		
	MATH 330	History of Mathematics (History of Mathematics)	3	
	EDUC/MATH	Teaching and Learning Elementary Mathematics from an		
	102	Advanced Perspective (Structure of the Real/Number System)	3	
	MATH 305	Number Theory (Number Theory 3 hrs)	3	
	MATH 300	, , , , ,		
		Multivariate Calculus (Completion of Calculus Sequence 3 hrs)	3	
		MATH 250 - Statistics I Recommended , MATH 338 -		
	Choose:	Mathematical Statistics and Probability, MATH 340 –		
		Introduction to Probability Theory (<i>Probability and Statistics 3 hrs</i>)	3	
	COSC 240	Introduction to Programming (Computer Science 3 hrs)	3	
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	MATH 303	Linear Algebra (Linear Algebra)	3	

NOTE: Specific courses are listed above as **"recommended"** because the knowledge gained in these courses will aid in passing the Missouri Content Assessment for Secondary Math.

Professional Education Coursework

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				Field			
				Experience			
				(observation			
				hrs)			
Grade	Course #	Course Title	Cr Hrs	included			
	SOCI 270	Diversity and Society	3	none			
	EDUC 100	Introduction to Education	3	15 hrs			
	EDUC 200	Law, Ethics, and Education	3	none			
	EDUC 220	Methods of Teaching English Learners	3	none			
	EDUC 230	Educational Psychology	3	none			
	EDUC 300	Techniques of Teaching	3	15 hrs			
	EDUC 390	Education & Psychology of the Exceptional Child	3	none			
		EDUC 396 – Child and Adolescent Development; or EDUC					
	Choose	391 - Child Psychology and EDUC 392 – Adolescent					
	option	Psychology	3	none			
Admission to the Teacher Certification Program (See							
	T	Teacher Certification Program checklist)					
	EDUC 311	Classroom Management Techniques	3	15 hrs			
	EDUC 322	Educational Measurement and Assessment	3	none			
	EDUC 338	Content Reading and Writing	3	15 hrs			
	EDUC 360	Teaching Mathematics in Middle and Secondary School	3	15 hrs			
	EDUC 375	Advanced Content Methods	3	15 hrs			
	EDUC 376	Adolescent Literacy	3	none			
	EDUC 400	Senior Seminar	3	none			
Approval for Student Teaching (See Student Teaching Checklist)							
	EDUC 425	Undergraduate Student Teaching	12	16 weeks			
		Total Credit Hours	57				
Approval for DESE certification recommendation (See							

Retention Criteria:

Complete at least 6 hours of professional education each year

DESE Certification checklist)

- Complete Field Experiences and receive favorable evaluations from cooperating teachers and college supervisors
- Maintain a cumulative GPA of 3.0 or above in professional education courses and content area courses

Other requirements that must be completed prior to certification:

- Successful completion/passing of appropriate Content Area Assessment MoCA
- Successful completion of program certification performance assessment MEES

Other Requirements:

Post Baccalaureate certification students completing the FAFSA to receive financial aid for certification must complete the following questions on the 2023-24 FAFSA accordingly:

Question 26 – "5th year/other undergraduate"

Question 27 - "Teaching credential (nondegree program)"

Question 44 - "No"

You can do this online at: https://studentaid.gov/h/apply-for-aid/fafsa.