

**Mathematics Education**  
**Effective Date: August 2021**



Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I (C)	1	MTSC-192	University Seminar II (C)	1
MTSC-251	Calculus I (B/AtC)	4	MTSC-252	Calculus II (AtC)	4
MVSC-101	Fitness and Wellness (C)	2	MTSC-241	Statistics	3
Session I: ENGL-121	Introduction to Composition I (C)	2	Session I: ENGL-123	Intro to Composition and Speech III (C)	3
Session II: ENGL-122	Introduction to Composition II (C)	2	Session II: ENGL-124	Intro to Speech and Composition IV (C)	2
xx-xxx	Foreign Language I (B/AtC)	3	xx-xxx	Foreign Language II (B/AtC)	3
See Gen Ed Breadth List	History Elective (B/AtC)	3			
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
			<b>Take and Pass Praxis Core++</b>		
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-253	Calculus III	4	MTSC-203	College Geometry (AtC)	3
MTSC-213	Discrete Math (AtC)	3	MTSC-313	Linear Algebra	3
PHYS-211## Or PHYS-201##	Fundamentals of Physics I + (B) General Physics I + (B)	4	PHYS-212 Or PHYS-202	Fundamentals of Physics II ++ General Physics II ++	4
EDUC-204	Philo Foundations of Ed (10 EFE hrs/Middle Level#)	3	EDUC-313	Intro to Educ. Of Except. Children (10 EFE hrs/Secondary#)	3
PSYC-201	Intro General Psychology	3	EDUC-344	Instructional Technology (AtC)	3
	<b>Total Credits</b>	<b>17</b>		<b>Total Credits</b>	<b>16</b>
			<b>Apply to Teacher Education Program+</b>		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-341	Probability (F)	3	MTSC-491	History of Math (S/AtC)	3
MTSC-411	Algebraic Structures I (F)	3	PSYC-316	Developmental Psychology	3
EDUC-318	Multicultural Education (cross listed with GLOB 395)	3	CSCI-225## Or CSCI-120##	Structured Programming for Scientist & Engineers + (AtC) Elements of Computer Programming I + (AtC)	3 Or 4
See Gen Ed Breadth List	Literature Elective (B/AtC)	3	MTSC-402	Secondary Mathematics Activities and Assessments (20 EFE hrs/ Middle Level#)	3
MTSC-xxx	Mathematics Elective	3	xx-xxx	Free Elective	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
			<b>Take and Pass Praxis Subject++</b>		
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-403	Methods of Teaching Mathematics (TEP/Secondary#) (F)*	3	EDUC-400	Pre-Service Teaching** (B/TEP/Secondary#)	12
EDUC-357	Effect. Teaching and Classroom Management (TEP/Secondary#)*	4			
EDUC-416	Analysis of Student Teaching (TEP) *	1			
MTSC-xxx	Mathematics Elective^^	3			
xx-xxx	Free Elective	3			
	<b>Total Credits</b>	<b>14</b>		<b>Total Credits</b>	<b>12</b>

Name: \_\_\_\_\_  
 ID: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Advisor: \_\_\_\_\_

<b>Total Credits 122</b>
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<b>Breadth &amp; AtC Requirements</b>	<b>Course(s)</b>
History (African-American Experience/Multicultural)	
Literature (African-American Experience/Multicultural)	
Social Science	PSYC 201
Arts/Humanities Elective 1 (African-American Experience/Multicultural)	Foreign Language I
Arts/Humanities Elective 2 (African-American Experience/Multicultural)	Foreign Language II
Natural Science w/ Lab	PHYS 211 or PHYS 201
African-American Experience (History/Literature/Art/Free Elective)	
Multicultural 1 (History/Literature/Social Science/Art/Free Elective)	Foreign Language I
Multicultural 2 (History/Literature/Social Science/Art/Free Elective)	Foreign Language II
Reading/Speaking/Listening Across the Curriculum	MTSC 203
Self Evaluation	PSYC 201
Wellness	PSYC 201
Information Literacy	MTSC 491 or EDUC 344
Computer Competency	CSCI 120 or CSCI 225
Writing in Major	MTSC 491
Quantitative Reasoning	MTSC 251 or MTSC 252
Global Issues	MTSC 491
Critical Thinking/Problem Solving Issues	MTSC 213

<b>Certification Exam Information</b>	<b>Score</b>
Praxis Core – Mathematics 5732 (min 150) or Math SAT (min 540) or Quantitative GRE (min 145)	
Praxis Core – Reading 5712 (min 156) or Verbal SAT (min 560) or Verbal GRE (min 152)	
Praxis Core – Writing 5722(min 162) or Core Battery Communication Skills Test (min 670)	
Praxis Subject – Mathematics Content Knowledge 5161 (min 160; as of 9/1/13)	
Praxis II– Mathematics Content Knowledge 0061/5061 (min 141; as of 3/18/04-8/31/13)	

**Key Codes:**

^ Students who do not satisfactorily complete MTSC-251 & MTSC-252 may be advised to consider changing to another major.

^^ Mathematics Elective courses can be selected from MTSC-300 or higher level courses. These courses include MTSC 317 (S/E), 319 (S/O), 412 (S), 431 (F), 451(S), 452 (F), 454 (S), 461 (F), 471 (S), 498, 499, and could occur in the Fall or Spring semester.

+ Students must pass PRAXIS Core, have at least 60 credits, and maintain a 2.5 GPA to be admitted into the Teacher Education Program (TEP).

++Students must submit a complete copy of their Praxis Core & Subject scores to the department secretary and advisor.

# Students must be placed in BOTH middle and secondary mathematics classrooms throughout the program. Recommendations for courses associated with middle schools and secondary schools are indicated.

## It is highly recommended that students either double major or minor in business, computer science or information technology (take CSCI 120), engineering or physics (take PHYS 201), or other science related field to become more employable in industry, education, or the federal government.

\* Course must be taken the semester before EDUC-400. Course shares 2 days per week Student Teaching Experience Part I.

\*\*Senior Capstone course. Student must pass PRAXIS Subject prior to EDUC-400

(C) Core Course

(B) Breadth Course

(AtC) Across the Curriculum Course

(TEP) Teacher Education Program Only

(S) Spring Only Course

(F) Fall Only Course

(E) Even Years

(O) Odd Years

