



Eureka College 2019-2020 Catalog

Major in Mathematics/Tchr Licensure

Complete 120 semester hours of graduation-eligible credit.

Mathematics Major		Gr	Cr
MAT131	Intro to Mathematical Prgrmg		3
MAT171	Calculus w/ Analytic Geometry I		4
MAT271	Calculus w/ Analytic Geometry II		4
MAT272	Calculus w/ Analytic Geom III		4
MAT275	Differential Equations ^(Alt Yrs)		3
MAT280	Discrete Mathematics		3
MAT310	Probability and Statistics ^(Alt Yrs)		3
MAT315	Linear Algebra		3
MAT320	Abstract Algebra ^(Alt Yrs)		3
MAT340W	Foundations of Geometry ^(Alt Yrs)		3
MAT415	Real Analysis ^(Alt Yrs)		3
Choose one of the following:			
<ul style="list-style-type: none"> • PHS110 – Introduction to Physical Science • PHS111 – Introduction to Earth Science • PHY___ - Any Physics Course 			
			4
Professional Education			
EDU165	Foundations of American Educ		3
EDU170	Intro to Curriculum & Instruct		2
EDU227W	Educational Psychology		3
EDU229	Educating the Exceptional Child		3
EDU229F	Exceptional Child Field Experien		.5
EDU242	Beg Sec Methods in Math		3
EDU242F	Beg Sec Methods Field Experien		.5
EDU351	Language & Diversity in Educat		3
EDU355	Education Law		1
EDU372D	Secondary Diversity Practicum		1
EDU373D	Secondary Content Practicum		1
EDU390L	Educational Technology		2
EDU415	Secondary Classroom Mgt		2
EDU431W	Educational Assessment		2
EDU442	Adv Sec Methods in Math		3
EDU455	Education Seminar		1
EDU456W	Teacher Performance Assessmt		2
EDU470D	Secondary Student Teaching		12
SPE358L	Explicit Instruction		3
TOTAL			88

Additional State Content Area Standards			
HED179	First Aid/CPR/Injury Prevention		1
PSY207	Middle Childhd & Adolesc Dev		3
TOTAL			4

General Education Capabilities	Date Met
<i>Justice and Civic Responsibility [JCR]</i>	
<i>Aesthetic Sensibility [AS]</i>	
<i>Analytical Inquiry & Problem Solving [AIPS]</i>	
<i>Communication [CO]</i>	
<i>Health, Fitness, and Well-Being [HFWB]</i>	
<i>Intercultural Understanding [IU]</i>	
<i>Scientific Literacy [SL]</i>	
<i>Spiritual Engagement / Examined Life [SEEL]</i>	
<i>Sustainable Practices & Environmental Conscience [SP]</i>	
<i>Ethical Reasoning [ER]</i>	
ECC490 Ethical Reasoning Seminar	
TOTAL CAPABILITIES COMPLETED (Not Credits)	10

Writing Requirement	Gr	Cr
ENG103W Academic Writing & Research		3
ENG301W Adv. Academic Writing & Resear		3
MAT340W Foundations of Geometry		-
EDU227W Educational Psychology		-
TOTAL		6