



# Eureka College 2018-2019 Catalog

## Major in Mathematics/Tchr Licensure

Complete 120 semester hours of graduation-eligible credit.

Mathematics Major		Gr	Cr
MAT171	Calculus w/ Analytic Geometry I		4
MAT271	Calculus w/ Analytic Geometry II		4
MAT272	Calculus w/ Analytic Geom III		4
MAT275	Differential Equations <sup>(Alt Yrs)</sup>		3
MAT280	Discrete Mathematics		3
MAT310	Probability and Statistics <sup>(Alt Yrs)</sup>		3
MAT315	Linear Algebra		3
MAT320	Abstract Algebra <sup>(Alt Yrs)</sup>		3
MAT340W	Foundations of Geometry <sup>(Alt Yrs)</sup>		3
MAT415	Real Analysis <sup>(Alt Yrs)</sup>		3
Choose one of the following:			
<ul style="list-style-type: none"> <li>• CSC135 – Computer Science I</li> <li>• CSC165 – Computer Science II</li> </ul>			3
Choose one of the following:			
<ul style="list-style-type: none"> <li>• PHS110 – Introduction to Physical Science</li> <li>• PHS111 – Introduction to Earth Science</li> <li>• PHY___ - Any Physics Course</li> </ul>			4
Professional Education			
EDU170	Intro to Curriculum & Instruct		3
EDU185	Foundations of American Educ		3
EDU227W	Educational Psychology		3
EDU228L	Exceptional Child Field Experie		.5
EDU229	Educating the Exceptional Child		3
EDU242	Mathematics Methods I		1
EDU280	Introduction to Middle Grades		2
EDU342	Mathematics Methods II		1
EDU350	Language & Literacy in Adolesc		1
EDU366A	Secondary Diversity Practicum		1
EDU366B	Secondary Content Practicum		1
EDU390	Educational Technology		2
EDU415	Secondary Classroom Mgt		2
EDU431W	Educational Assessment		2
EDU435	Field Exp for Student Teachers		.5
EDU442	Mathematics Methods III		2
EDU455	Education Seminar		1
EDU466	Student Teaching		14
<b>TOTAL</b>			<b>83</b>

Additional State Content Area Standards			
HED179	First Aid/CPR/Injury Prevention		1
	HIS250, HIS251, or PSC150		3
PSY207	Middle Childhd & Adolesc Dev		3
THA130	Acting I or COM110 Pub Spkg		3
<b>TOTAL</b>			<b>10</b>

General Education Capabilities	Date Met	
<i>Justice and Civic Responsibility [JCR]</i>		
<i>Aesthetic Sensibility [AS]</i>		
<i>Analytical Inquiry &amp; 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 &amp; Environmental Conscience [SP]</i>		
<i>Ethical Reasoning [ER]</i>		
ECC490 Ethical Reasoning Seminar		
<b>TOTAL CAPABILITIES COMPLETED (Not Credits)</b>		<b>10</b>

Writing Requirement	Gr	Cr
ENG103W Academic Writing & Research		3
ENG301W Adv. Academic Writing & Resear		3
MAT340W Foundations of Geometry		-
EDU227W Educational Psychology		3
<b>TOTAL</b>		<b>9</b>