

**BACHELOR OF SCIENCE IN MATHEMATICS**  
**With Certification in Sec. Ed.**  
**CURRICULUM GUIDE**  
**AND PROGRAM REQUIREMENTS CHECKLIST (2017)**

Student:	Major: Mathematics with Cert. in Sec. Ed.
Laker ID:	Semester:
Advisement Dates:	Catalog Year:

A total of 120 credit hours are required for the Bachelor of Science in Mathematics.

All MATH courses must be with a grade of C or better. (A grade of S will satisfy this condition.)

No more than 3 credits of a grade of D can be used.

<b>Area A – Essential Skills (9 Credits)</b>						
A1	Complete Both Courses (6 credits)		Sem.	Grade	Credit	Comments
	ENGL 1101	English Comp. I			3	
	ENGL 1102	English Comp. II			3	
A2	Complete One Course (3 Credits)					
	MATH 1112	Trig & Anal. Geo.			3	
	MATH 1113	Pre-Calculus			3	
	MATH 1501	Calculus I			3*	
* MATH 1501 is a 4 credit course. The remaining 1 credit will be applied to Area F.						
<b>Area B – Critical Thinking &amp; Communication Skills (4 Credits)</b>						
B1	Critical Thinking (3 Credits)					
	CRIT 1101	Critical Thinking			3	
B2	Complete one course (1 Credit)					
	COMM 1001	Pres. Speaking			1	
	COMM 1002	Pres. Applications			1	
	COMM 1110	Spoken Comm.			1**	
	FREN 1002	Elem. French II			1	
	SPAN 1002	Elem Spanish II			1	
** COMM 1110 is a 3 credit course. The remaining 2 credits will be applied to the General Electives						
<b>AREA C – Humanities (6 Credits)</b>						
C1	Complete one course (3 Credits)				3	
	ENGL 2111	World Literature			3	
	ENGL 2112	World Literature			3	
	ENGL 2121	British Literature I			3	
	ENGL 2122	British Literature II			3	
	ENGL 2131	American Literature I			3	
	ENGL 2132	American Literature II			3	
	FREN 2001	Inter. French I			3	
	FREN 2002	Inter. French II			3	
	PHIL 2010	Intro to World Philosophy			3	
	PHIL 2030	Ethics/Hist/Cntmpry Pers.			3	
	SPAN 2001	Inter.Spanish I			3	
	SPAN 2002	Intermediate Spanish II			3	

C2	Complete one course (3 Credits)		Sem.	Grade	Credit	Comments
	ART 2301	Art of the Pre-Modern World			3	
	ART 2302	Art of the Modern World			3	
	CMS 2100	Introduction to Film			3	
	FREN 2001	Intermediate French I			3	
	FREN 2002	Intermediate French II			3	
	MUSC 2101	Music Appreciation			3	
	MUSC 2103	Introduction to World Music			3	
	PHIL 2040	Introduction to Aesthetics			3	
	SPAN 2001	Intermediate Spanish I			3	
	SPAN 2001	Intermediate Spanish II			3	
	THEA 1100	Theater Appreciation			3	
<b>Area D - Natural Sciences and Mathematics (11 hours)</b>						
D1	Complete 1 Science Sequence with Labs (B, C, or P) (8 hours)		Sem.	Grade	Credit	Comments
B	BIOL 1107	Principles of Biology I			3	
B	BIOL 1107L	Principles of Biology Lab I			1	
B	BIOL 1108	Principles of Biology II			3	
B	BIOL 1108L	Principles of Biology Lab II			1	
C	CHEM 1211	Principles of Chemistry I			3	
C	CHEM 1211L	Principles of Chemistry Lab I			1	
C	CHEM 1212	Principles of Chemistry II			3	
C	CHEM 1212L	Principles of Chemistry Lab II			1	
P	PHYS 2211	Principles of Physics I			3	
P	PHYS 2211L	Principles of Physics Lab I			1	
P	PHYS 2212	Principles of Physics II			3	

P	PHYS 2212L	Principles of Physics Lab II			1	
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D2	Mathematics (3 Credits)		Sem.	Grade	Credit	Comments
	MATH 1501 <sup>1</sup>	Calculus I			3*	
	MATH 2502	Calculus II			3*	

1. MATH 1501 cannot be used in Area D2 if used in Area A2

\* MATH 1501 and MATH 2502 are 4 credit courses. The remaining 1 credit will be applied to Area F.

**Area E – Social Sciences (12 Credits)**

E1	American Government (3 Credits)		Sem.	Grade	Credit	Comments
	POLS 1101	Amer. Government			3	
E2	World History (3 Credits)					
	HIST 1111	Survey Pre-Modern World History			3	
	HIST 1112	Survey Modern World History			3	
	HIST 2750	Critical Trends and Issues in World His.			3	
	POLS 2401	Intro to Global Issues			3	
E3	American History (3 Credits)					
	HIST 2111	Survey U.S. History to 1877			3	
	HIST 2112	Survey U.S. Hist. Since Reconst.			3	
E4	Behavioral Sciences (3 Credits)					
	SOCI 1101	Intro. to Soc.			3	
	PSYC 1101	Intro. to Psych.			3	
	WST 2010	Intro. to Women's Studies			3	
	AFAM 2010	Intro. to African-Amer. Studies			3	

**Area F. Courses Related to Major (18 Credits)**

Required Course ( 15 Credits)			Sem.	Grade	Credit	Comments
	MATH 1231	Intro. to Statistics			3	
	MATH 1501	Calculus I			1	
	MATH 2020	Intro. to Discrete Mathematics (3only if MATH 2502 is used in Area D2)			0 or 3	
	MATH 2140	Intro. to Linear Alg.			3	
	MATH 2502	Calculus II			1or 4	
	MATH 2503	Calculus III			4	
One Programming Class (3 Credits)						
	CSCI 1301	Computer Science I			3	
	CSCI 1371	Computing for Engineers			3	



<b>Upper Division Mathematics Classes (26 Hours)</b>						
<b>Required (26 Credits)</b>			<b>Sem.</b>	<b>Grade</b>	<b>Credit</b>	<b>Comments</b>
	MATH 3005	Transitions to Higher Mathematics			3	
	MATH 3006	Communications in Mathematics			1	
	MATH 3110	Survey of Algebra			3	
	MATH 3220	Applied Statistics			3	
	MATH 3303	ODE			3	
	MATH 3520	Intro. to Analysis			3	
	MATH 4050	Modern Meth. In Teaching Math.			3	
	MATH 4231	Modern Geometry			3	
	MATH 4250	Elem. Number Theory			3	
	MATH 4988	Directed Research			1	
	MATH 4989	Senior Capstone Experience			0	
<b>Required Courses for Certification (27 credits if MATH 2020 is in Area F or 30 credits otherwise.)</b>						
	MATH 2020	Intro. to Discrete Math. (3only if MATH 2020 is used in Area F)			0 or 3	
	EDUC 2110	Investigating Critical & Contemp. Issues in Education			3	
	EDUC 2120	Exploring Socio-Culture			3	
	EDUC 2130	Exploring Teaching & Learning			3	
	EDUC 3030	Exploring-Exceptional Learner			3	
	EDUC 3200	Secondary School Curr. and Assess.			3	
	EDUC3210	Classroom Methods and Management			3	
	EDUC 4003	Sec. Level Sem.			1	
	EDUC 4725	Secondary Practicum			2	
	EDUC 4731	Content Supervision			3	
	EDUC 4730	Secondary Level Internship			3	



**A grade of C or better is required for all mathematics and education courses applied towards the major.**

**TOTAL CREDIT HOURS: 120**

**Student Signature:** \_\_\_\_\_

**Advisor Signature:** \_\_\_\_\_

**Date:**