

2021-2022  
 Bachelor of Science in Mathematics  
 Math (120 hrs.)

Name \_\_\_\_\_

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**Mathematics (48 hrs.)**

Course	Course Title	Credits	Grade	✓	Sem.
1910	Calculus I	4			
1920	Calculus II	4			
2010	Intro. Linear Algebra	3			
2110	Calculus III	4			
2120	Differential Equations	3			
3810	Complex Variables	3			
3400	Intro Concepts Math	3			
4010	Modern Algebra I	3			
3430	College Geometry <b>or</b>	3			
4410	Differential Geometry				
4310	<b>or</b> Intro. Topology I				
4530	Linear Algebra I	3			
4470	Probability & Statistics I	3			
4110	Advanced Calculus I	3			

One Sequence from **Pure Mathematics Sequence**  
 List: 4010-4020; 4110-4120; 4310-4320; 4530-4540;  
 or 4850-4860

One Sequence from **Applied Mathematics Sequence**  
 List: 3070-3080, 4050-4060; 4210-4220; 4250-4260;  
 4470-4480; 4550-4560; or any two of the three: 4050,  
 4350, or 4360. 4050 can only be counted for one  
 sequence.

One additional sequence from either list above

**History (6 hrs.)**

2010	Early US History	3			
2020	Modern US History	3			

**Humanities/Fine Arts (6 hrs.)**

**Social/Behavioral Science (6 hrs.)**

**Exams Required for Graduation:** Senior Exit Exam

The Major Field Test will be given to students during their senior year in the Math Department (it is not a required exam for graduation, but is needed for testing results and data).

**English (9 hrs.)**

Course	Course Title	Credits	Grade	✓	Sem.
1010	English Comp. I	3			
1020	English Comp. II	3			
2130	Top. American Lit.	3			
2235	Top. British Lit., or				
2330	Top. World Lit.				

**Science Sequence (8 hrs.)**

Courses to be selected from the list below:

ASTR 1010 & 1020	Intro. Modern Astronomy I & II	8
BIOL 1010 & 1020	Intro to Biol & Div of Life	8
BIOL 1113 & 1123	Gen Biol I & Gen Biol II	8
BIOL 1113 & 2310	Gen Biol I & Gen Botany	8
CHEM 1010 & 1020	Intro. Chemistry I & II	8
CHEM 1110 & 1120	General Chemistry I & II	8
GEOL 1040	Physical Geology	4
GEOL 1045	Earth Environ Res. Soc.	4

**or**

PHYS 2110	Calculus Based Physics I with Lab	4
PHYS 2120	Calculus Based Physics II with Lab	4

**Computer Science (4 or 2 hrs.)**

CSC 1300	Intro to Prob Sol & Comp Programming <b>OR</b>	4			
ENGR 1120	Prog for Engineers	2			

**Communication (3 hrs.)**

COMM 2025	Fundamentals of Communication, <b>OR</b>	3			
PC 2500	Communicating in the Profession				

**Electives (enough credits to complete 120 hours.)**

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**MATHEMATICS - B. S. in MATH (120 hrs.)**

<b>Freshman Year</b>	<b>Sem. Hrs.</b>	<b>Sophomore Year</b>	<b>Sem. Hrs.</b>
MATH 1910 Calculus I	4	MATH 2010 Intro. Linear Algebra	3
MATH 1920 Calculus II	4	MATH 2110 Calculus III	4
ENGL 1010 English Comp. I	3	MATH 2120 Differential Equations	3
ENGL 1020 English Comp II	3	MATH 3400 Concepts of Math	3
Approved Natural Science Sequence*	8	ENGL 2130, or 2235, or 2330	3
Humanities/Fine Arts Elective	3	CSC 1300 Intro Prob. Sol & Comp Prog.	4
Electives	6	<b>OR</b>	
		ENGR 1120 Programing for Engineers	2
		COMM 2025 Fund of Communication	3
		<b>OR</b>	
		PC 2500 Comm. in the Profession	3
		Social/Behavioral Science Electives	6
		Humanities/Fine Arts Electives	3
<b>Total</b>	<b>31</b>	<b>Total</b>	<b>30 or 32</b>
<b>Junior Year</b>	<b>Sem. Hrs.</b>	<b>Senior Year</b>	<b>Sem. Hrs.</b>
MATH 3810 Complex Variables	3	MATH 4110 Advanced Calculus I	3
MATH 4010 Modern Algebra I	3	Mathematics**	9
MATH 4530 Linear Algebra I	3	Electives	20 or 18
MATH 4470 Probability and Statistics I	3		
HIST 2010 Early US History	3		
HIST 2020 Modern US History	3		
Mathematics**	3		
MATH 3430, 4410, or 4310	3		
Electives	6		
<b>Total</b>	<b>30</b>	<b>Total</b>	<b>30 or 32</b>

\* ASTR 1010-1020; or BIOL 1010-1020; or BIOL 1113-1123; or BIOL 1113-2310; or CHEM 1010-1020; or CHEM 1110-1120; or GEOL 1040-1045; or PHYS 2110, 2120.

\*\* Upper-division mathematics courses (3000 or higher). The student must complete three upper-division sequences. The approved sequences are organized into pure mathematics and applied mathematics categories as shown below. The student must complete at least one sequence from each category.

**Pure Mathematics Sequence List:** MATH 4010-4020, 4110-4120, 4310-4320, 4530-4540; or 4850-4860.

**Applied Mathematics Sequence List:** MATH 3070-3080, 4050-4060, 4210-4220; 4250-4260; 4470-4480; 4550-4560; or any two of the three: 4050, 4350, or 4360. 4050 can only be counted for one sequence.