2022-2023
Bachelor of Science in Mathematics
Math (120 hrs.)

Name _____ **T#** _____

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 4410 4310	College Geometry **or** Differential Geometry **or** Intro. Topology I	3			
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

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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.

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One additional sequence from either list above

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History (6 hrs.)

2010	Early US History	3			
2020	Modern US History	3			

Humanities/Fine Arts (6 hrs.)

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Social/Behavioral Science (6 hrs.)

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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 2235 2330	Top. American Lit. Top. British Lit., or Top. World Lit.	3			

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 **OR**	4			
ENGR 1120	Prog for Engineers	2			

Communication (3 hrs.)

COMM 2025 PC 2500	Fundamentals of Communication, **OR** Communicating in the Profession	3			

Electives (enough credits to complete 120 hours.)

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

Freshman Year	**Sem. Hrs.**	**Sophomore Year**	**Sem. Hrs.**
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	**OR**	
		ENGR 1120 Programing for Engineers	2
		COMM 2025 Fund of Communication	3
		OR	
		PC 2500 Comm. in the Profession	3
		Social/Behavioral Science Electives	6
		Humanities/Fine Arts Electives	3
Total	**31**	**Total**	**30 or 32**
Junior Year	**Sem. Hrs.**	**Senior Year**	**Sem. Hrs.**
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		
Total	**30**	**Total**	**30 or 32**

* 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.

Revised 5-23-22