COLLEGE OF ARTS & SCIENCES
2021-22 BS MATHEMATICS (WITH PRE-ENGINEERING)
B.S. DEGREE PLAN

FIRST YEAR - FRESHMAN

Fall Semester				Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs
BIB	121	Life of Christ[1]	2	BIB	122	Acts of the Apostles[1]	2
MAT	120	Precalculus[3]	4	MAT	122	Analytics and Calculus I[1,3]	4
CIS	171	Computer Programming I	3	CIS	172	Computer Programming II[3]	3
ENG	101	English Composition I[1]	3	ENG	102	English Composition II[1,3]	3
		History[1,2]	3	ENS	103	Engineering Graphics	3
ENS	101	Introduction to Engineering	2				
			17				15

SECOND YEAR - SOPHOMORE

Fall Semester				Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs
BIB		Bible Elective	2	BIB		Bible Elective	3
MAT	223	Analytics and Calculus II[3]	4	MAT	224	Analytics and Calculus III[3]	4
PHS	211	Physics for Science & Engin. I[1,3]	4	MAT	330	Linear Algebra[3]	3
		Critical and Creative Works[1,2]	3	MAT	240	Discrete Mathematics[3]	3
COM	140	Speech Communication[1]	3	PHS	212	Physics for Science & Engin. II[3]	4
			16				17

THIRD YEAR - JUNIOR

Fall Semester				Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs
BIB		Bible Elective	2	BIB	346	Foundations of Faith[1]	3
MAT	306	Foundations of Geometry[3]	3	MAT	345	Differential Equations[3]	3
MAT	430	Abstract Algebra[3]	3	MAT	351	Probability[3]	3
		Behavioral Sciences[1,2]	3	MAT	424	Complex Analysis[3]	3
CHE	121	General Chemistry I	3	CHE	122	General Chemistry II	3
CHE	121L	General Chemistry I Lab	1	CHE	122L	General Chemistry II Lab	1
			15				16

FOURTH YEAR - SENIOR

Fall Semester				Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs
BIB		Bible Elective	2	BIB	495	Values in Human Thought[1,3]	3
MAT	353	Statistical Inference[3]	3	MAT	426	Advanced Calculus[3]	3
MAT	441	Number Theory[3]	3			Electives	6
MAT	495	Mathematics Seminar [3]	1	ENS	232	Engin. Mechanics II: Dynamics	3
		Electives	3				
ENS	231	Engin. Mechanics I: Statics	3				
			15				15

[1]Liberal Arts Core Requirement

[2]Liberal Arts Core Requirements in *Undergraduate Catalog*

[3]Course has prerequisite. See corresponding *Undergraduate Catalog*

ADDITIONAL ITEMS RELATED TO THE MAJOR

A. MAT 120 Precalculus may be omitted by students who have completed a high school trigonometry or precalculus courses and who have a score of 27 or higher on the math portion of the ACT.

B. MAT424 Complex Analysis OR MAT426 Advanced Calculus is required for the major; however, it is recommended that majors complete both courses, when scheduling permits.

C. Note that many upper-division math courses are only offered every other year. To complete the degree requirements in four years, be sure to schedule required courses in the semester they are offered.

D. When selecting elective courses, be aware that all students must complete a minimum of 42 upper-division hours (300- or 400-level courses) in order to fulfill graduation requirements.

E. Math majors are encouraged to use elective hours to complete a minor or second major in another field of study.

The following guidelines are important. Failure to follow these guidelines may delay graduation.

1. Plan schedules carefully. Plan to fulfill prerequisites for future courses.
2. Do not alter the sequence of courses without consulting with your academic adviser as not all classes are offered every semester.
3. Before the enrollment period, check to make sure holds will not prevent you from registration.
4. Register for classes early during the registration period to secure classes.

The Four-Year Degree Plan is a suggested plan of study. This plan does not replace the *Undergraduate Catalog*. The *Undergraduate Catalog* provides the official listing of program requirements.

2021-22 Undergraduate Liberal Arts Core Requirements

I. Biblical Values		III. Broadened Perspectives	
A. Bible		**A. Behavioral Sciences**	
BIB 121 & 122 & 346 **OR** 446	7	BIB/FAM 230 **OR** PSY 210 **OR** SOC 241 **OR** SOC 251	3
II. Basic Skills		**B. Natural Sciences**	
A. Written Communication		BIO 100 **OR** BIO 105 **OR** BIO 110 **OR** BIO 111 **OR** BIO 112 **OR** BIO 211 **OR** CHE 121 & CHE 121L **OR** PHS 111 **OR** PHS 112 **OR** PHS 201 **OR** PHS 211	3
ENG 101 **AND** ENG 102	6		
B. Oral Communication			
COM 140	3		
C. Quantitative Reasoning		**C. Arts and Humanities**	
MAT 100 **OR** MAT 101 **OR** MAT 120 **OR** MAT 122 **OR** MAT235	3	*HISTORY*: HIS 111 **OR** HIS 112 **OR** HIS 221 **OR** HIS 222 **OR** HUM 399A **OR** POL	3
Complete course names and descriptions for the Liberal Arts Core Requirements are located in the Undergraduate Catalog.		*CRITICAL AND CREATIVE WORKS:* ART 110 **OR** ART 201 **OR** ART 234 **OR** ENG 215 **OR** ENG 225 **OR** ENG 235 **OR** ENG 299A/399A **OR** MUS 110 **OR** MUS 214 **OR** PHI 243 **OR** PHI 245 **OR** PHI246 **OR** THE 160 **OR** THE 265 **OR** THE 299A/399A	3
		HUMANITIES CAPSTONE: BIB/HUM 495	3

Total 34