2-12

# MATHEMATICS, B.S.

- General Education Course

► - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

# **Course Requirements**

Title

Code

		Hours
Core Curriculu	m	
Core 1: Critical Ti	hinking	
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 💎	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101 💎	Beginning Composition	3
ENG 201 💎	Advanced Composition	3
CMM 103 💎	Fund Speech-Communication	3
MTH 229 🚗	Calculus/Analytic Geom I (CT)	5
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional Unive	rsity Requirements	
Writing Intensiv	3	
Writing Intensiv	e	3
Multicultural or International		3
MTH 490 💎	Internship in Mathematics	2
or MTH 491	Senior Seminar	
College-Specifi	С	

College-Specific	C	
COS Physical/Natural Science		
COS Physical/Natural Science		3
<b>Major-Specific</b>		
CS 110	Computer Science I	3
MTH 229 💎	Calculus/Analytic Geom I (CT)	5
MTH 230 💎	Calculus/Analytic Geom II	4
MTH 231 🚗	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
MTH 331	Linear Algebra	4
MTH 335	Ordinary Diff Equations	3
MTH 427	Advanced Calculus I	3
MTH 428	Advanced Calculus II	3
MTH 443	Numerical Analysis	3
STA 445	Probability & Statistics I	3
MTH 450	Modern Algebra I	3
MTH 452	Modern Algebra II	3

or MTH 491 Senior Seminar	
e 🚗	
300/400 MTH or STA Elective	3
300/400 MTH or STA Elective	3
300/400 Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	2

Internship in Mathematics

#### **Major Information**

Credit

MTH 490 💎

- Students who double-major in both Mathematics and Statistics may have an opportunity to double-count electives toward the respective majors. Please contact the director of undergraduate studies in the Mathematics department for more details.
- Please check with advisor about course offerings. Not all classes will be offered every semester.
- Forty (40) hours must be earned in courses numbered 300-499.

### Four Year Plan

- General Education Course

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## **Semester Plan**

#### **First Year**

First Semester		Credit Hours
FYS 100	First Yr Sem Critical Thinking	3
ENG 101 💎	Beginning Composition	3
MTH 229 💎	Calculus/Analytic Geom I (CT)	5
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	15
Second Semeste		
CS 110	Computer Science I	3
MTH 230 🔫	Calculus/Analytic Geom II	4
Core I Critical Thinking		3
CMM 103 💎	Fund Speech-Communication	3
Core II Social Science		3
	Credit Hours	16
Second Year		
First Semester		
MTH 231 💎	Calculus/Analytic Geom III	4

	Total Credit Hours	120
	Credit Hours	14
Free Elective		3
Free Elective		3
300/400 MTH or	STA Elective	3
MTH 490 (**) or MTH 491	Internship in Mathematics or Senior Seminar	2
MTH 452	Modern Algebra II	3
Second Semest		
	Credit Hours	15
Free Elective		3
300/400 Level El	3	
Writing Intensive	2	3
MTH 450	Modern Algebra I	3
MTH 443	Numerical Analysis	3
Fourth Year First Semester		
Farreth Vac-	Credit Hours	15
Free Elective	Constitutions	3
300/400 MTH or	STA Elective	3
Core II Humaniti		3
Writing Intensive		3
MTH 428	Advanced Calculus II	3
Second Semest		
	Credit Hours	15
Free Elective		3
COS Physical/Na	tural Science	3
Multicultural or I	International	3
STA 445	Probability & Statistics I	3
MTH 427	Advanced Calculus I	3
First Semester		
Third Year	Credit Hours	15
Free Elective	- W	1
Free Elective		3
COS Physical/Na	tural Science	4
MTH 335	Ordinary Diff Equations	3
MTH 331	Linear Algebra	4
Second Semest		
	Credit Hours	15
Core II Physical/i	Natural Sicence	4
ENG 201 💎	Advanced Composition	3
MTH 300	Intro to Higher Math	4