STATISTICS, 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

Code	Title	Credit Hours
Core Curriculum	1	
Core 1: Critical Th	inking	
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
СММ 103 💎	Fund Speech-Communication	3
MTH 229 💎 🖻	Calculus/Analytic Geom I (CT)	5
Core II Natural/P	hysical Science	4
Core II Humanitie	25	3
Core II Social Scie	ence	3
Core II Fine Arts		3
Additional Univers	sity Requirements	
Writing Intensive		3
Writing Intensive		3
Multicultural or l	nternational	3
MTH 490 💎	Internship in Mathematics (Capstone)	2
or MTH 491	Senior Seminar	
College-Specific		
COS Physical/Nat	cural Science	4
COS Physical/Nat	cural Science	3
Major-Specific		
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

Internship in Mathematics (C)

Probability & Statistics I

Probability & Statistics II

Regression Analysis

Experimental Designs

Senior Seminar

MTH 490 📌 or MTH 491

STA 445

STA 446

STA 412

STA 413

MTH 427	Advanced Calculus I		3
STA 420	Nonparametric Statistics		3
STA 435	Statistical Data Mining		3
300/400 MTH or STA Elective			3
300/400 MTH or STA Elective			3
300/400 Level Elective			3
Free Elective			4
Free Elective			3

Major Information

- 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.
- 💎 General Education Course

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Four Year Plan

Semester Plan

2

3

3

3

3

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	r	
MTH 230 💎 🎓	Calculus/Analytic Geom II	4
Core I Critical Thi	nking	
СММ 103 🔫	Fund Speech-Communication	3
CS 110	Computer Science I	3
Core II Social Scie	nce	3
	Credit Hours	13
Second Year		
First Semester		
MTH 231 💎 🎓	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
ENG 201 💎 🖻	Advanced Composition	3
Core II Physical/Natural Science		
	Credit Hours	15

Second Semeste	er	
MTH 331	Linear Algebra	4
300/400 Level Ele	ective	3
Free Elective		4
Physical/Natural	Science Elective	4
	Credit Hours	15
Third Year		
First Semester		
MTH 427	Advanced Calculus I	3
STA 445	Probability & Statistics I	3
Physical/Natural	Science Elective	3
Multicultural or I	nternational Elective	3
Free Elective		3
	Credit Hours	15
Second Semeste	er	
Humanities Elect	ive	3
Writing Intensive	Elective	3
STA 446	Probability & Statistics II	3
300/400 MTH or	STA Elective	3
Free Elective		3
	Credit Hours	15
Fourth Year		
First Semester		
STA 412	Regression Analysis	3
STA 435	Statistical Data Mining	3
300/400 MTH or	STA Elective	3
Writing Intensive		3
Free Elective		3
	Credit Hours	15
Second Semeste	er	
STA 413	Experimental Designs	3
STA 420	Nonparametric Statistics	3
MTH 490 <	Internship in Mathematics or Senior Seminar	2
e		
Free Elective		3
Free Elective		3
	Credit Hours	14
	Total Credit Hours	117