MATHEMATICS

MY ADVISOR'S NAME IS: _____

REQUIREMENTS

CORE CURRICULUM
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 marshall.edu/gened.

CORE 1: CRITICAL THINKING

CODE	COURSE NAME		HRS	GRADE
FYS 100	First Year Seminar	●	3	_____
MTH 229	Critical Thinking Course	●	5	_____
_____	Critical Thinking Course	●	3	_____

Additional University Requirements

CODE	COURSE NAME	HRS	GRADE
_____	Writing Intensive	3	_____
_____	Writing Intensive	3	_____
_____	Multicultural or International	3	_____
MTH 490 or 491	Capstone	2	_____

CORE 2:

CODE	COURSE NAME		HRS	GRADE
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	_____

COLLEGE-SPECIFIC

All Mathematics majors are required to take 7 additional hours in Physical or Natural Sciences beyond the Core II requirement. These hours must be from two different areas:

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
_____	COS Physical/Natural Science	■	4	_____	_____	COS Physical/Natural Science	■	3	_____

MAJOR-SPECIFIC

Students who wish to major in Mathematics must take the following courses:

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
CS 110	Computer Science I	◆	3	_____	MTH 490 or 491	Internship or Sr. Seminar	◆	2	_____
MTH 229	Calculus/Analytic Geom I (CT)	◆	5	_____	STA 445	Probability & Statistics I	◆	3	_____
MTH 230	Calculus/Analytic Geom II	◆	4	_____	_____	300/400 MTH or STA Elective	◆	3	_____
MTH 231	Calculus/Analytic Geom III	◆	4	_____	_____	300/400 MTH or STA Elective	◆	3	_____
MTH 300	Intro to Higher Math	◆	4	_____	_____	300/400 Elective		3	_____
MTH 331	Linear Algebra	◆	4	_____	_____	Free Elective		3	_____
MTH 335	Ordinary Diff Equations	◆	3	_____	_____	Free Elective		3	_____
MTH 427	Advanced Calculus I	◆	3	_____	_____	Free Elective		3	_____
MTH 428	Advanced Calculus II	◆	3	_____	_____	Free Elective		3	_____
MTH 443	Numerical Analysis	◆	3	_____	_____	Free Elective		3	_____
MTH 450	Modern Algebra I	◆	3	_____	_____	Free Elective		3	_____
MTH 452	Modern Algebra II	◆	3	_____	_____	Free Elective		2	_____

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.

◆ Area of Emphasis
◆ Major Requirement
■ College Requirement
● General Education Requirement

Milestone Course: This is a key success marker for your major. See your advisor to discuss importance of this course in your plan of study.

MATHEMATICS

The Marshall University Department of Mathematics prepare students for careers in the mathematical sciences and related disciplines. Graduates of our mathematics programs have had successful careers in government and industry. Our graduates have also earned advanced degrees in mathematics, statistics, engineering, and economics. Our degree programs may also be used to prepare for secondary mathematics certification and for professions such as law or medicine. The department has a dynamic and engaged faculty who focus both on excellent teaching and on many areas of mathematical research.

YEAR ONE

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
FYS 100	First Year Sem Crit 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	_____
TOTAL HOURS			**15**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 230	Calculus/Analytic Geom II	♦	4	_____
_____	Core I Critical Thinking	●	3	_____
CMM 103	Fund Speech-Communication	●	3	_____
_____	Core II Social Science	●	3	_____
CS 110	Computer Science I	♦	3	_____
TOTAL HOURS			**16**	

YEAR TWO

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 300	Intro to Higher Math	♦	4	_____
MTH 231	Calculus/Analytic Geom III	♦	4	_____
ENG 201	Advanced Composition	●	3	_____
_____	Core II Physical/Natural Science	●	4	_____
TOTAL HOURS			**15**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 331	Linear Algebra	♦	4	_____
MTH 335	Ordinary Diff Equations	♦	3	_____
_____	COS Physical/Natural Science	■	4	_____
_____	Free Elective		3	_____
_____	Free Elective		1	_____
TOTAL HOURS			**15**	

YEAR THREE

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 427	Advanced Calculus I	♦	3	_____
STA 445	Probability & Statistics I	♦	3	_____
_____	Multicultural or International	●	3	_____
_____	COS Physical/Natural Science	■	3	_____
_____	Free Elective		3	_____
TOTAL HOURS			**15**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 428	Advanced Calculus II	♦	3	_____
_____	Writing Intensive	●	3	_____
_____	Core II Humanities	●	3	_____
_____	300/400 MTH or STA Elective	♦	3	_____
_____	Free Elective		3	_____
TOTAL HOURS			**16**	

YEAR FOUR

FALL SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 443	Numerical Analysis	♦	3	_____
MTH 450	Modern Algebra I	♦	3	_____
_____	Writing Intensive	●	3	_____
_____	300/400 Elective		3	_____
_____	Free Elective		3	_____
TOTAL HOURS			**15**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 490 or 491	Internship or Sr. Seminar	● ♦	2	_____
MTH 452	Modern Algebra II	♦	3	_____
_____	300/400 MTH or STA Elective	♦	3	_____
_____	Free Elective		3	_____
_____	Free Elective		3	_____
TOTAL HOURS			**14**	

Legend (left margin):
- ● Area of Emphasis
- ♦ Major Requirement
- ■ College Requirement
- ● General Education Requirement

Milestone Course: This is a key success marker for your major. See your advisor to discuss importance of this course in your plan of study.