STATISTICS

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.

OR		ICAL THINKING				COF	RE 2:				
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	FYS 100	First Year Sem Crit Thinking	•	3			ENG 101	Beginning Composition	•	3	
•	MTH 229	Critical Thinking Course	•	3		**	ENG 201	Advanced Composition	•	3	
		Critical Thinking Course	•	3			CMM 103	Fund Speech-Communication	•	3	
						***	MTH 229	Calculus/Analytic Geom I (CT)	• •	4	
	Additiona	l University Requirements						Core II Natural/Physical Science	•	4	
		Writing Intensive		3				Core II Humanities	•	3	
		Writing Intensive		3				Core II Social Science	•	3	
		Multicultural or International		3				Core II Fine Arts	•	3	
	MTH 490/491	Capstone		2							

COLLEGE-SPECIFIC

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

HRS GRADE

CODE	COURSE NAME	Н	RS GRADE	CODE	COURSE NAME		HRS	GRADE
	COS Physical/Natural Science	•	4		COS Physical/Natural Science	•	3	

MAJOR-SPECIFIC

CODE COURSE NAME

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

2	1	MTH 229	Calculus/Analytic Geom I (CT)	•	5	 	Statistics Required Elective	•	3 _	
2	1	MTH 230	Calculus/Analytic Geom II	•	4	 	Statistics Required Elective	•	3 _	
5		CS 110	Computer Science I	•	3	 	Math/Stat Required Elective	•	3 _	
5	1	MTH 231	Calculus/Analytic Geom III	♦	4	 	Math/Stat Elective or Minor or 2nd	•	3 _	
	**	MTH 300	Intro to Higher Math	♦	4		Major			
2		MTH 331	Linear Algebra	♦	4	 	Math/Stat Elective or Minor or 2nd	•	3 _	
2		MTH 490	Internship or Sr. Seminar (C)	• •	2		Major			
5		or 491					300/400 Math/Stat Elective	•	3 _	
		STA 445	Probability & Statistics I	•	3	 	300/400 Math/Stat Elective	•	3 _	
of the second		STA 446	Probability & Statistics II	•	3	 	300/400 Math/Stat Elective	•	3 _	
		STA 412	Regress Analysis	•	3	 	300/400 Math/Stat Elective	•	3 _	
2		STA 413	Experiment Design	♦	3	 	Math/Stat Elective or 2nd Major	•	3 _	
-			Statistics Required Elective	•	3	 	Math/Stat Elective or 2nd Major	•	3 _	
_										

MAJOR INFORMATION

- Statistics majors are not required to satisfy the College of Science requirement of a minor in another discipline. However, Statistics majors often elect to complete a second (or more) major(s) and/or one (or more) minor(s).
- The statistics and mathematics elective courses may not duplicate those used for the major requirements. The number of elective courses required depends on whether a student is pursuing an outside minor or a 2nd major. The following are the three options:
 - No Outside Major or Minor: A student may graduate with a major in Statistics, without a second major or a minor, by completing an additional 4 elective courses from the list of electives. At least 3 of the 4 electives must be chosen from among the STA-designated courses. The major requires 50 credit hours.
- Outside Minors: A student graduating with a single major in Statistics, and at least one minor outside the department, must complete at least 2 additional elective mathematics courses from the list below. Effectively, the major requires 44 credit
- Outside Double Majors: A student graduating with multiple majors, including Statistics, need not take any additional elective math courses. Effectively, the major requires 38 credit hours. A student pursuing multiple majors, including at least two of the majors in the department, should consult with the undergraduate coordinator or chair of the department for details.

MY ADVISOR'S NAME IS:

• Elective Courses: **STA** 412, 413, 420, 422, 425, 445, 446, 464, 466, 470; **MTH** 335, 360, 361, 405, 411, 415, 416, 427, 428, 430, 431, 440, 442, 443, 448, 449,

COURSE NAME

HRS GRADE

- Since the major is quite flexible, students are expected to consult with the undergraduate coordinator in the department. Before graduation, the undergraduate coordinator must approve the selection of sequences and
- 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 COLLEGE OF SCIENCE 2019-2020

STATISTICS

Summer Term (optional):

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 tment has a dynamic and engaged faculty who focus both on excellent teaching and on many areas of mathematical research

depa	rtment ha	as a dyna	mic and engaged faculty who focus b	oth on	excell	ent teaching	g and	on many a	reas of mathematical research.			
			FALL SEMESTER						SPRING SEMESTER			
	C	ODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	F۱	YS 100	First Year Sem Crit Thinking	•	3		**	MTH 230	Calculus/Analytic Geom II	•	4	
	EN	NG 101	Beginning Composition	•	3				Core I Critical Thinking	•	3	
闰	₹ M	TH 229	Calculus/Analytic Geom I (CT)	• •	5			CMM 103	Fund Speech-Communication	•	3	
NC	_		Core II Fine Arts	•	3				Multicultural or International Elective	•	3	
YEAR ONE	UI	NI 100	Freshman First Class		1				Core II Social Science	•	3	
	тс	OTAL HO	URS		15			TOTAL HO	URS		16	
	Summer	Term (opt	ional):									
			FALL SEMESTER						SPRING SEMESTER			
	C	ODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	CS	S 110	Computer Science I	•	3		**	MTH 300	Intro to Higher Math	•	4	
	₹ M	TH 231	Calculus/Analytic Geom III	•	4				Statistics Required Elective	•	3	
0.0	₹ EN	NG 201	Advanced Composition	•	3				Math/Stat Required Elective or	•	3	
ΤV	_		Core II Physical/Natural Science	•	4				Minor or 2nd Major			
1R									Physical/Natural Science Elective	•	4	
YEAR TWO												
	тс	OTAL HO	URS		14			TOTAL HO	URS		14	
		Term (opt										
			FALL SEMESTER						SPRING SEMESTER			
	C	ODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	М	TH 331	Linear Algebra	•	4				Humanities Elective	•	3	
F±1	ST	ΓA 445	Probability & Statistics I	•	3				Writing Intensive Elective	•	3	
田田	_		Math/Stat Elective or Minor or 2nd	•	3			STA 446	Probability & Statistics II	•	3	
THREE			Major						Math/Stat Elective or 2nd Major	•	3	
RT	_		Math/Stat Elective or 2nd Major	•	3				Math/Stat Elective	•	3	
YEAI	_		Physical/Natural Science Elective	•	3							
Y	тс	OTAL HO	URS		16			TOTAL HO	URS		15	
	Summer	Term (opt	ional):									
			FALL SEMESTER						SPRING SEMESTER			
	C	ODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	ST	ΓA 412	Regress Analysis	•	3			STA 413	Experiment Design	•	3	
2	_		300/400 Math/Stat Elective	•	3			MTH 490	Internship or Sr. Seminar (C)	• •	2	
E E			300/400 Math/Stat Elective	•	4			or 491			-	
FO.	_		Statistics Required Elective	•	3				Statistics Required Elective	•	3	
Ж	_		Writing Intensive	•	3				300/400 Math/Stat Elective	•	3	
YEAR FOUR									300/400 Math/Stat Elective	•	3	
	TC	OTAL HO	URS		16			TOTAL HO	URS		14	

MY ADVISOR'S NAME IS:

INVOLVEMENT OPPORTUNITIES

- SGA
- · Campus Activity Board
- JMELI
- · Commuter Student Advisory Board
- Community Engagement Ambassadors
- · Club Sports
- Religious Organizations
- Political Organizations
- · Residence Hall Association
- Cultural Organizations
- · National Society of Leadership and Success
- Math Club
- Pi Mu Epsilon Mathematics Association
- · Greek Life

RELATED MAJORS

- Business
- · Data Science
- Economics
- Finance Accounting
- Entrepreneurship
- Psychology

GRADUATION REQUIREMENTS

- Have a minimum of 120 credit hours (some colleges or majors require more);
- · Have an overall and Marshall Grade Point Average of 2.00 or higher;
- Have an overall Grade Point Average of 2.00 or higher in the major area of study;
- Have earned a grade of C or better in English 201 or 201H;
- Have met all major(s) and college requirements;
- Have met the requirements of the Core Curriculum;
- · Have met the residence requirements of Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence Requirements" in the undergraduate catalogue);
- Be enrolled at Marshall at least one semester of the senior year;
- Have transferred no more than 72 credit hours from an accredited West Virginia twoyear institution of higher education.

Colleges and specific programs may have unique requirements that are more stringent than those noted above. Students are responsible for staying informed about and ensuring that they meet the requirements for graduation.

YEAR ONE



Stay on the Herd Path and come Have questions? Need to talk? You to class! Class attendance is more already have a Friend-At-Marshall important to your success than ready to help you succeed. Find your your high school GPA, your class FAM Peer Mentor here: standing, or your ACT/SAT scores. www.marshall.edu/fam

Meet with your Advisor to ensure you

take the necessary prerequisites that

are required for your sequences.

Join or create a club or organization

on campus about a particular issue

vou care about. Marshall has more

than 200 student organizations.

Are you completing enough credits

to graduate on time? Dropping or

failing a class can put you behind.

Use summer terms to quickly get

back on track.

Join the Math Club and/or the Pi Mu

Epsilon Mathematics Association

College is a great time to experience

the world! Consider studying abroad

in the summer, during Spring Break,

or for an entire semester.





In order to graduate on time, you need to take an average of 15 credits per semester. Are you on track? Take 15 to Finish!



Declare a major before your 30th hour. Participate in a Career Exploration Experience (job shadow) to help decide on your major and career goals.

Join the Marshall Mentor Network

might enhance your major with a

related skill set.



Attend an intercultural festival or event on campus or in town.

Take a Community Based Learning

(CBL) class that connects course

content to the community. Stay

engaged and make a difference.

Meet with a career education specialist to

conduct a "gap analysis." Figure out the

skills you'll need for the career you want

while you still have time to build them.

YEAR TWO

YEAR THREE



Team up with a faculty mentor and participate in the Virginia Tech **Regional Mathematics Competition**



STATISTICS — 2019-2020

College is a great time to experience the world! Consider studying abroad in the summer, during Spring Break, or for an entire semester.



Develop relationships with professors who can serve as future references by attending their office hours.



No need to wait until graduate school. Discuss undergraduate research opportunities with faculty in your major right now.



Are you on track to graduate? Meet with your advisor for your Junior Eval to make sure you know what requirements you have left.



Networking is key! Attend a Career Expo to seek employment opportunities and network with employers in your field.



Think about who can help you grow as a student and a professional (professors, advisors, alumni, etc.) and ask at least one to be your mentor.



This is it! Are you on track to graduate? Meet with your advisor for your Senior Eval to see what requirements you have left.



course? Become a Tutor or a Supplemental Instructor.



Apply to be a New Student Orientation Leader or a Campus Tour Guide.

Be at the top of your professional game! Prepare a final resume and practice your interview skills with a career coach in Career Education.



increase your opportunities? Talk to a faculty member about whether graduate school fits your career goals.

YEAR FOUR



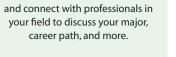
Prepare to present at the regional MAA Section Meetings or any other conferences. Team up with your faculty research mentor



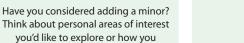




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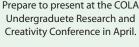


Did you do really well in a hard













Want to continue your education and



· Strong Oral and Written Communication

· Organizational Skills

ASSOCIATED CAREERS

TRANSFERABLE SKILLS

· Mathematical Ability • Attention to Detail

ASSOCIATED WITH THIS MAJOR

- Government Work, Including Census
- · Survey Design
- Operations Research
- Law

Skills

- · Regulation
- · Public Health
- · Risk Management
- · Health and Medicine
- · Data Science/Analytics
- · Quality Control Banking
- Finance
- Insurance
- Biostatistics • Education

This academic map is to be used as a guide in planning your coursework toward a degree. Due to the complexities of degree programs, it is unfortunate but inevitable that an error may occur in the creation of this document. The official source of degree requirements at Marshall University is DegreeWorks available in your myMU portal. Always consult regularly with your advisor.

