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# OZARKS TECHNICAL COMMUNITY COLLEGE

**FINISH IN 4**


OTC Associate of Science in Mathematics

to

**MSU Bachelor of Science in Mathematics**
**Available on campus only.**
*Comprehensive majors do not require a minor or second major.*
**OTC Year 1 Semester 1**

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Mathematical Sciences</b> <i>5 credit hours required for the A.S. in Mathematics</i>	MTH 140	Analytic Geometry and Calculus I	5	MTH 261	✓
<b>Written Communications</b>	<b>Choose one:</b>		3-5	ENG 110	
	ENG 100 ENG 101	Composition I with Support Composition I			
<b>CIS 120 Prerequisite</b>	CIS 101	Technology and Digital Literacy	3	ITC 200	
<b>Computer Applications Course</b>	CIS 120	Introduction to Computer Programming	3	CSC 130	✓
<b>Semester 1 Total</b>			<b>14-16</b>		

**OTC Year 1 Semester 2**

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Program Requirement</b>	MTH 141	Analytic Geometry and Calculus II	5	MTH 280	✓
<b>Natural Sciences*</b>	PHY 220	Physics Engrs & Scientists I	5	PHY 203	✓
<b>Humanities and Fine Arts*</b>	<a href="#">Choose one Humanities and Fine Arts course.</a>		3	Varies	
<b>Written Communications</b>	ENG 150	Technical Writing	3	ENG 221	
<b>Semester 2 Total</b>			<b>16</b>		

**OTC Year 2 Semester 3**

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Program Requirement</b>	MTH 240	Analytic Geometry and Calculus III ("C" or better required)	3	MTH 302	✓
<b>Program Requirement</b>	MTH 215	Algebraic Structures	3	MTH 315	✓
<b>Social/Behavioral Sciences</b>	ECO 270	Principles of Macroeconomics	3	ECO 155	
<b>Oral Communications</b>	<a href="#">Choose one Oral Communications course.</a>		3	Varies	
<b>Natural Sciences*</b>	BIO 160	General Biology I	4	BIO 121	
<b>Semester 3 Total</b>			<b>16</b>		

**OTC Year 2 Semester 4**

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Social/Behavioral Sciences* - Civics	Choose one:				
	PLS 101	HST 120			

\*Must fulfill two disciplines



## MSU Bachelor of Science in Mathematics

after

## OTC Associate of Science in Mathematics

### MSU Year 3 Semester 1

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Major Requirement - Capstone	MTH 532	Introduction to Abstract Algebra	3
Major Requirement - Capstone	MTH 540	Statistical Theory	3
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.		3
Social/Behavioral Sciences <i>9 credit hours required for Core 42</i>	<u>Choose one Social and Behavioral Sciences course.</u>		3
General Elective **			3
Semester 1 Total			15

### MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Major Requirement - Capstone	MTH 503	Advanced Calculus I	3
Major Requirement	Choose one:		3
	MTH 421 MTH 541	Numerical Analysis I Statistical Theory II	
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.		3
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.		3
Humanities and Fine Arts* 9 credit hours required for Core 42	Choose one Humanities and Fine Arts course.		3
Semester 2 Total			15

### MSU Year 4 Semester 3

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE	CREDIT HOURS
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.	3
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.	3
Humanities and Fine Arts* 9 credit hours required for Core 42	<b>Choose one Humanities and Fine Arts course.</b>	3
General Elective **		6
Semester 3 Total		15

### MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Major Requirement - Capstone	MTH 497	Topics	1
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.		3
Core 42 Elective	Choose MOTR coded course of your choice with the assistance of an advisor.		1
General Elective **			10
Semester 4 Total			15
Total Hours at MSU			60
Total Hours Overall			120-122

\*\*Work with your MSU advisor to identify courses that will complement your specific career goals. Electives provide the opportunity to customize your degree program. Some elective credits may or may not be needed to bring total credit hours to a minimum of 120 credit hours and upper division hours (300+) to 40.

This degree is also available as a Bachelor of Arts (BA).  
**Please consult an MSU transfer advisor to determine your best degree options.**

#### This information is provided as a guide only.

- OTC students are strongly encouraged to meet with their major specific MSU transfer advisor early in their OTC education to discuss the most appropriate OTC coursework for their intended MSU major, MSU degree requirements, etc.
- Students are required to fulfill MSU graduation and GPA requirements to receive a degree and should consult with their MSU advisor and the MSU undergraduate catalog for details, as there may exist pre-requisite requirements as well as periodicity limitations that could affect scheduling sequences.
- Please note that transfer students from Missouri public colleges and universities may follow the general education and general baccalaureate degree requirements in effect at Missouri State when they first enrolled (or re-enrolled after an absence of one calendar year or more) as degree-seeking students at the institutions from which they transferred (e.g., OTC).