

Date Modified:	11.1.19
MSU Transfer Advisor:	Dr. William Bray WBray@MissouriState.edu 417-836-6270

OZARKS TECHNICAL COMMUNITY COLLEGE

Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met.

OTC Associate of Science in Mathematics to MSU Bachelor of Science in Mathematics (Comprehensive)

Catalog Year: 2019-2020

The following is a guide to graduation with completion of OTC's Associate of Science in Mathematics and MSU's Bachelor of Science in Mathematics degree.
The B.S. in Mathematics may be completed on campus only.

OTC Year 1 Semester 1

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Mathematical Sciences 3 credit hours <i>Must earn "C" or better</i>	MTH 140	Analytic Geometry and Calculus I	5	MTH 261	✓	✓
Computer Applications Course	CIS 120	Introduction to Computer Programming	3	CSC 130		
Written Communications 6 credit hours	Choose one: ENG 100 ENG 101	Composition I with Support Composition I	3-5	ENG 110	✓	
Social/Behavioral Sciences 9 credit hours (Must fulfill 2 disciplines)	Choose one: HST 120 HST 130 PLS 101	U.S. History I: to 1865 U.S. History II: 1865-Present American Government and Politics	3	HST 121 HST 122 PLS 101	✓	
Semester 1 Total			14-16			

OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Course <i>Must earn "C" or better</i>	MTH 141	Analytic Geometry and Calculus II	5	MTH 280		✓
Natural Sciences 7 credit hours (Must fulfill 2 disciplines including one course with a lab component)	PHY 220	Physics Engrs & Scientists I	5	PHY 203	✓	
Humanities and Fine Arts 9 credit hours (Must fulfill 2 disciplines)	Choose one: ART 100 ASL 101 ART 101 ASL 102 ART 105 CHI 101 ART 120▲ ENG 180	ENG 260 ENG 350 GRM 101 MUS 106 PHL 105 SPN 101 ENG 265 ENG 351 GRM 102 MUS 110 REL 100 SPN 102 ENG 340 FRN 101 MUS 101 MUS 235*▲ REL 101 THR 101 ENG 341 FRN 102 MUS 105 PHL 101 REL 102	3	Varies	✓	
Written Communications 6 credit hours	ENG 150	Technical Writing	3	ENG 221	✓	
Semester 2 Total			16			

OTC Year 2 Semester 3

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Course <i>Must earn "C" or better</i>	MTH 240	Analytic Geometry and Calculus III	3	MTH 302		✓
Program Specific Course	MTH 215	Algebraic Structures	3	MTH 315		✓
Social/Behavioral Sciences 9 credit hours (Must fulfill 2 disciplines)	ECO 270	Principles of Macroeconomics	3	ECO 155	✓	
Institutional Elective 10 hours required for A.S. Mathematics	Any course numbered 100 and above - your choice.		3	Varies		
Oral Communications 3 credit hours	Choose one: COM 100 COM 105 COM 200	Introduction to Communication Public Speaking Interpersonal Communication	3	GEC 103 COM 115 COM 205	✓	
Semester 3 Total			15			

OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Elective	MTH 241	Differential Equations	3	MTH 303		✓
Program Specific Elective	MTH 230	Linear Algebra	3	MTH 333		✓
Natural Sciences 7 credit hours (Must fulfill 2 disciplines including one course with a lab component)	BIO 160	General Biology I	4	BIO 121	✓	
Institutional Elective 10 hours required for A.S. Mathematics	Any course numbered 100 and above - your choice.		7	Varies		
Semester 4 Total			17			
Total Hours at OTC			62-64	<i>Total Hours Applied Toward MSU Major Requirements:</i>		22

* One credit hour course

▲ May choose only one, falls under MOTR code 'PER'

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**MSU Bachelor of Science in Mathematics (Comprehensive)
after OTC Associate of Science in Mathematics**

Catalog Year: 2019-2020

MSU Year 3 Semester 1

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement	MTH 532	Introduction to Abstract Algebra	3
Major Requirement	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</i> (Must fulfill 2 disciplines)	Choose one: ANT 100 ANT 125 ANT 303 CFD 155	COM 260 CRM 210 ECO 101 ECO 165	GRY 100 HST 103 HST 104 HST 121
		HST 122 MED 120 PLN 100 PLS 101	PLS 205 PLS 232 PSY 121 SOC 152
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
Semester 1 Total			15

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement	MTH 503	Advanced Calculus I	3
Major Requirement	Choose one: MTH 421 MTH 541	Numerical Analysis I Statistical Theory II	3
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 <i>9 credit hours</i> (Must fulfill 2 disciplines)	Choose one: ARB 101 ARB 102 ART 115 ART 200 ART 271	ART 272 CHI 101 CSD 330 CSD 331 ENG 200	ENG 203 ENG 205 ENG 215 ENG 282 ENG 289
		ENG 340 ENG 341 ENG 350 ENG 351 ENG 362	FRN 101 FRN 102 GRM 101 GRM 102 ITL 101
		ITL 102 JPN 101 JPN 102 KOR 101 KOR 102	LLT 121 MED 274 MUS 100 MUS 162* MUS 175*
		MUS 176* MUS 178* MUS 239 MUS 241 MUS 345	MUS 346 MUS 347 PHI 105 PHI 110 PHI 115
		PTG 101 PTG 102 REL 100 REL 101 REL 102	REL 210 RUS 101 RUS 102 SPN 101 SPN 102
		THE 101 ART 212	
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 <i>9 credit hours</i> (Must fulfill 2 disciplines)	Choose one: ARB 101 ARB 102 ART 115 ART 200 ART 271	ART 272 CHI 101 CSD 330 CSD 331 ENG 200	ENG 203 ENG 205 ENG 215 ENG 282 ENG 289
		ENG 340 ENG 341 ENG 350 ENG 351 ENG 362	FRN 101 FRN 102 GRM 101 GRM 102 ITL 101
		ITL 102 JPN 101 JPN 102 KOR 101 KOR 102	LLT 121 MED 274 MUS 100 MUS 162* MUS 175*
		MUS 176* MUS 178* MUS 239 MUS 241 MUS 345	MUS 346 MUS 347 PHI 105 PHI 110 PHI 115
		PTG 101 PTG 102 REL 100 REL 101 REL 102	REL 210 RUS 101 RUS 102 SPN 101 SPN 102
		THE 101 ART 212	
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		6
Semester 3 Total			15

MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement	MTH 497	Topics	1
Major Elective	Choose any Mathematics course numbered 400 and above with the assistance of an advisor.		3
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		9
Semester 4 Total			13
Total Hours at MSU			58
Total Hours Overall			120-122

** 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).
[Click here to access the Bachelor of Arts Degree Requirements](#)
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).

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