

MSU Program Contact Info:	Angela Plank AngelaPlank@MissouriState.edu 417-836-6851
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OZARKS TECHNICAL COMMUNITY COLLEGE



OTC Associate of Science in Biology

to

MSU Bachelor of Science in Biology with Chemistry Minor

Available on campus only.
Non-comprehensive majors require a minor or second major.

OTC Year 1 Semester 1

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Mathematical Sciences	MTH 138	Pre-Calculus Mathematics	5	MTH 138	
Written Communications	Choose one:		3-5	ENG 110	
	ENG 100 ENG 101	Composition I with Support Composition I			
Natural Sciences*	BIO 160	General Biology I	4	BIO 121	✓
Social/Behavioral Sciences	<u>Choose one Social and Behavioral Sciences course.</u>		3	Varies	
Semester 1 Total			15-17		

OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Program Requirement	BIO 170	General Biology II	4	BIO 122	✓
Oral Communications	<u>Choose one Oral Communications course.</u>		3	Varies	
Natural Sciences	CHM 160 and CHM 161	General Chemistry I and Lab	5	CHM 160 and CHM 161	
Recommended Institutional Elective	Choose any BIO course with advisor approval.		3	Varies	✓
Semester 2 Total			15		

OTC Year 2 Semester 3

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Social/Behavioral Sciences* - Civics	Choose one:		3	PLS 101 HST 121 HST 122	
	PLS 101	HST 120 HST 130			
Program Requirement	PHY 120	General Physics I	4	PHY 123	✓
Recommended Institutional Elective	MTH 140	Analytic Geometry and Calculus I	5	MTH 261	✓
Program Requirement	BIO 250	Genetics	4	BIO 235 and BIO 236	✓
Semester 3 Total			16		

OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Recommended Institutional Elective	Choose any BIO course with advisor approval.		3	Varies	✓
Program Specific Course	CHM 170 and CHM 171	General Chemistry II and Lab	5	CHM 170 and CHM 171	
Written Communications	Choose one:		3	ENG 210 ENG 221	
	ENG 102 ENG 150	Composition II Technical Writing			
Program Specific Course	PHY 130	General Physics II	4	PHY 124	✓
Humanities and Fine Arts*	<u>Choose one Humanities and Fine Arts course.</u>		3	Varies	
Semester 4 Total			18	<i>Total MSU</i>	
<i>Total Hours at OTC</i>			64-66	<i>Major Hours</i>	31

*Must fulfill two disciplines

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Missouri State

UNIVERSITY

MSU Bachelor of Science in Biology with Chemistry Minor

after

OTC Associate of Science in Biology

MSU Year 3 Semester 1

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Major Requirement	CHM 342	Organic Chemistry I	5
Major Requirement	Choose one:		4-5
	BIO 320 OR BIO 312 and 313	Introduction to Cellular Biology Microbiology with Lab	
Major Requirement - Capstone	BIO 302	Biology Seminar	1
General Elective**	Choose an elective course in consultation with your advisor.		3
Semester 1 Total			13-14

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Major Elective	CHM 343 and CHM 345	Organic Chemistry II and Microscale Organic Chemistry Laboratory	5
Social/Behavioral Sciences	<u>Choose one Social and Behavioral Sciences course.</u>		3
Major Requirement	<u>Choose one or two BIO courses to equal 5 credit hours.</u>		5
General Elective**	Choose an elective course in consultation with your advisor.		2
Semester 2 Total			15

MSU Year 4 Semester 3

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts*	<u>Choose one Humanities and Fine Arts course.</u>		3
Major Requirement - Capstone	BIO 367 and BIO 368	General Ecology and Lab	4
Major Requirement	CHM 352	Introduction to Biochemistry	5
Public Affairs Capstone Experience	<u>Choose one Public Affairs Capstone Experience Course.</u>		1-4
General Elective**	Choose an elective course in consultation with your advisor.		2
Semester 3 Total			15-18

MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts*	<u>Choose one Humanities and Fine Arts course.</u>		3
Major Requirement	BIO 550	Statistical Methods for Biologists	3
Major Requirement - Capstone	BIO 492	Biology Assessment	0
General Elective**	Choose an elective course in consultation with your advisor.		7
Semester 4 Total			13
Total Hours at MSU			56-60
Total Hours Overall			120-126

**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).
[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).

Date Modified:	3.22.24
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