MSU Program Contact Info:

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OZARKS TECHNICAL COMMUNITY COLLEGE



OTC Associate of Science in Biology

MSU Bachelor of Science in Biology with Chemistry Minor

OTC Year 1 Semester 1

Available on campus only.

Non-comprehensive majors require a minor or second major.

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

OTC Year 1 Se	emester 2
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REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE	C COURSE ID/TITLE		MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Program Requirement	BIO 170	General Biology II	4	BIO 122	✓
Oral Communications	Choose one Oral Con	nmunications course.	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		

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE	TC COURSE ID/TITLE		MSU EOUIVALENT	MSU MAJOR REQUIREMENT
Social/Behavioral Sciences* - Civics	Choose one: PLS 101	HST 120 HST 130	3	PLS 101 HST 121 HST 122	
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		

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE	OTC COURSE ID/TITLE		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: ENG 102 ENG 150	Composition II Technical Writing	3	ENG 210 ENG 221	
Program Specific Course	PHY 130	General Physics II	4	PHY 124	✓
Humanities and Fine Arts*	Choose one Humani	ties and Fine Arts course.	3	Varies	
	1	Semester 4 Total Total Hours at OTC		Total MSU Major Hours	31

^{*}Must fulfill two disciplines

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OTC Associate of Science in Biology

MSU Year 3 Semester 1

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

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

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REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE	MSU COURSE ID/TITLE	
Humanities and Fine Arts*	Choose one Humanities and Fine Arts course.		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	Choose one Public A	ffairs Capstone Experience Course.	1-4
General Elective**	Choose an elective cour	se 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*	Choose one Human	hoose one Humanities and Fine Arts course.	
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).

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 prerequisite 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:	9.6.23	