

Date Modified:	11.1.19
MSU Transfer Advisor:	Angela Plank AngelaPlank@MissouriState.edu 417-836-6851

# OZARKS TECHNICAL COMMUNITY COLLEGE

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

## OTC Associate of Science in Biology to MSU Bachelor of Science in Biology with Chemistry Minor

Catalog Year: 2019-2020

The following is a guide to graduation with completion of OTC's Associate of Science in Biology and MSU's Bachelor of Science in Biology degree.

The B.S. in Biology 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
<b>Mathematical Sciences</b> 5 hours required for the A.S. in Biology	MTH 138	Pre-Calculus Mathematics	5	MTH 138	✓	
<b>Written Communications</b> 6 credit hours	<b>Choose one:</b> ENG 100 ENG 101	Composition I with Support Composition I	3-5	ENG 110	✓	
<b>Natural Sciences</b> 7 credit hours (Must fulfill 2 disciplines including one course with a lab component)	BIO 160	General Biology I	4	BIO 121	✓	✓
<b>Social/Behavioral Sciences</b> 9 credit hours (Must fulfill 2 disciplines)	<b>Choose one:</b> ANT 101    COM 150    ECO 270    GRY 101    HST 106    HST 130    PLS 201    PSY 130    SOC 210 ANT 220    CRM 210    ECO 275    HST 105    HST 120    PLS 101    PSY 110    SOC 101		3	Varies	✓	
<b>Semester 1 Total</b>			<b>15-17</b>			

### OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
<b>Program Specific Course</b>	BIO 170	General Biology II	4	BIO 122		✓
<b>Written Communications</b> 6 credit hours	<b>Choose one:</b> ENG 102 ENG 150	Composition II Technical Writing	3	ENG 210 ENG 221	✓	
<b>Oral Communications</b> 3 credit hours	<b>Choose one:</b> COM 100 COM 105 COM 200	Introduction to Communication Public Speaking Interpersonal Communication	3	GEC 103 COM 115 COM 205	✓	
<b>Social/Behavioral Sciences</b> 9 credit hours (Must fulfill 2 disciplines)	<b>Choose one:</b> ANT 101    COM 150    ECO 270    GRY 101    HST 106    HST 130    PLS 201    PSY 130    SOC 210 ANT 220    CRM 210    ECO 275    HST 105    HST 120    PLS 101    PSY 110    SOC 101		3	Varies	✓	
<b>Natural Sciences</b> 7 credit hours (Must fulfill 2 disciplines including one course with a lab component)	CHM 160 and CHM 161	General Chemistry I and Lab	5	CHM 160 and CHM 161	✓	✓
<b>Semester 2 Total</b>			<b>18</b>			

### OTC Year 2 Semester 3

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
<b>Program Specific Course</b>	<b>Choose one:</b> PHY 120 PHY 220	General Physics I Physics Engrs & Scientists I	4-5	PHY 123 PHY 203		✓
<b>Program Specific Course</b>	CHM 170 and CHM 171	General Chemistry II and Lab	5	CHM 170 and CHM 171		✓
<b>Recommended Institutional Elective</b> 9 hours required for A.S. in Biology	MTH 140	Analytic Geometry and Calculus I	5	MTH 261		✓
<b>Program Specific Course</b>	BIO 250	Genetics	4	BIO 235 and BIO 236		✓
<b>Semester 3 Total</b>			<b>18-19</b>			

### OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
<b>Program Specific Course</b>	<b>Choose one:</b> PHY 130 PHY 222	General Physics II Physics Engrs & Scientists II	4-5	PHY 124 PHY 204		✓
<b>Humanities and Fine Arts</b> 9 credit hours (Must fulfill 2 disciplines)	<b>Choose one:</b> ART 100    ASL 101    ENG 260    ENG 350    GRM 101    MUS 106    PHL 105    SPN 101 ART 101    ASL 102    ENG 265    ENG 351    GRM 102    MUS 110    REL 100    SPN 102 ART 105    CHI 101    ENG 340    FRN 101    MUS 101    MUS 235*▲    REL 101    THR 101 ART 120▲    ENG 180    ENG 341    FRN 102    MUS 105    PHL 101    REL 102		3	Varies	✓	
<b>Social/Behavioral Sciences</b> 9 credit hours required for Core 42 & <b>Institutional Elective</b> 9 hours required for A.S. in Biology	<b>Choose one:</b> 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	✓	
<b>Recommended Institutional Elective</b> 9 hours required for A.S. in Biology	CHM 200	Survey of Organic Chemistry	5	CHM 201 and CHM 202		✓
<b>Semester 4 Total</b>			<b>15-16</b>			
<b>Total Hours at OTC</b>			<b>66-70</b>	<i>Total Hours Applied Toward MSU Major Requirements:</i>		40-42

\* One credit hour course

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

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**MSU Bachelor of Science in Biology with Chemistry Minor**  
after OTC Associate of Science in Biology

Catalog Year: 2019-2020

**MSU Year 3 Semester 1**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
<b>Major Elective</b>	Choose any Biology course numbered 300 and above.		4
<b>Major Requirement</b>	CHM 342 and CHM 345	Organic Chemistry I and Microscale Organic Chemistry Laboratory	5
<b>Major Requirement</b>	<b>Choose one:</b> BIO 320 OR BIO 312 and 313	Introduction to Cellular Biology Microbiology with Lab	4-5
<b>General Elective **</b>	Work with your MSU advisor to identify courses that will complement your specific career goals.		2
<b>Major Requirement</b>	BIO 302 ○	Biology Seminar	1
<b>Semester 1 Total</b>			<b>16-17</b>

**MSU Year 3 Semester 2**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
<b>Major Elective</b>	Choose any Biology course numbered 300 and above.		4
<b>General Elective **</b>	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
<b>Humanities and Fine Arts</b> <i>9 credit hours</i> (Must fulfill 2 disciplines)	<b>Choose one:</b> ARB 101 ART 272 ARB 102 CHI 101 ART 115 CSD 330 ART 200 CSD 331 ART 271 ENG 200	ENG 203 ENG 340 ENG 205 ENG 341 ENG 215 ENG 350 ENG 282 ENG 351 ENG 289 ENG 362	3
<b>General Elective **</b>	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
<b>Semester 2 Total</b>			<b>13</b>

**MSU Year 4 Semester 3**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
<b>Major Requirement</b>	BIO 367 and BIO 368 ○	General Ecology and Lab	4
<b>Major Requirement</b>	CHM 352 and CHM 353	Introduction to Biochemistry and Lab	5
<b>General Elective **</b>	Work with your MSU advisor to identify courses that will complement your specific career goals.		4
<b>Major Requirement</b>	BIO 492 ○	Biology Assessment	0
<b>Semester 3 Total</b>			<b>13</b>

**MSU Year 4 Semester 4**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
<b>Humanities and Fine Arts</b> <i>9 credit hours</i> (Must fulfill 2 disciplines)	<b>Choose one:</b> ARB 101 ART 272 ARB 102 CHI 101 ART 115 CSD 330 ART 200 CSD 331 ART 271 ENG 200	ENG 203 ENG 340 ENG 205 ENG 341 ENG 215 ENG 350 ENG 282 ENG 351 ENG 289 ENG 362	3
<b>Major Requirement</b>	BIO 550	Statistical Methods for Biologists	3
<b>Major Elective</b>	Choose any Biology course numbered 300 and above from Capstone Experience courses.		3
<b>Public Affairs Capstone Experience</b>	<b>Choose one:</b> BIO 300* BIO 355 BIO 367 BIO 370 BIO 373	BIO 398* BIO 399 BIO 485 BIO 498 BIO 499	3
<b>Semester 4 Total</b>			<b>12</b>
<b>Total Hours at MSU</b>			<b>54-55</b>
<b>Total Hours Overall</b>			<b>120-125</b>

\*\* 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.

○ Fulfills Public Affairs Capstone Experience

\* One credit hour course

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.**

**Notes about this major:** Must obtain a 2.0 in major fields and minor courses.

**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).