

Date Modified:	10.6.21
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OZARKS TECHNICAL COMMUNITY COLLEGE

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

Catalog Year: 2021-2022

OTC Associate of Science in Biology to

MSU Bachelor of Science in Biology - Wildlife and Fisheries Biology Option

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 - Wildlife and Fisheries Biology degree.

The B.S. Biology degree may be completed on campus only.

This is a comprehensive major meaning it does not require completion of a minor.



OTC Year 1 Semester 1

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Mathematical Sciences <i>5 credit hours required for the A.S. in Biology</i>	Choose one:		5	MTH 138 MTH 261	✓	✓
	MTH 138 MTH 140	Pre-Calculus Mathematics Analytic Geometry and Calculus I				
Written Communications <i>6 credit hours</i>	Choose one:		3-5	ENG 110	✓	
	ENG 100 ENG 101	Composition I with Support Composition I				
Natural Sciences <i>10 credit hours required for the A.S. in Biology</i> <small>(Must fulfill 2 disciplines including one course with a lab component)</small>	BIO 160	General Biology I	5	BIO 121	✓	✓
Social/Behavioral Sciences <i>6 credit hours required for the A.S. in Biology</i> <i>9 credit hours required for Core 42</i> <small>(Must fulfill 2 disciplines)</small>	CRM 210	Introduction to Criminal Justice	3	CRM 210	✓	✓
Semester 1 Total			16-18			

OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Course	BIO 170	General Biology II	5	BIO 122		✓
Written Communications <i>6 credit hours</i>	Choose one:		3	ENG 210 ENG 221	✓	
	ENG 102 ENG 150	Composition II Technical Writing				
Oral Communications <i>3 credit hours</i>	COM 100	COM 105 COM 200	3	Varies	✓	
Natural Sciences <i>10 credit hours required for the A.S. in Biology</i> <small>(Must fulfill 2 disciplines including one course with a lab component)</small>	CHM 160 and CHM 161	General Chemistry and Lab	5	CHM 160 and CHM 161	✓	✓
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	Choose one:		4-5	PHY 123 PHY 203		✓
	PHY 120 PHY 220	General Physics I Physics Engrs & Scientists I				
Social/Behavioral Sciences <i>6 credit hours required for the A.S. in Biology</i> <i>9 credit hours required for Core 42</i>	PLS 101	HST 120 HST 130	3	Varies	✓	
Program Specific Course	BIO 250	Genetics	5	BIO 235 and BIO 236		✓
Program Specific Course	CHM 200	Survey of Organic Chemistry	5	CHM 201 and CHM 202		✓
Semester 3 Total			17-18			

OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT						
Program Specific Course	Choose one:		4-5	PHY 124 PHY 204		✓						
	PHY 130 PHY 222	General Physics II Physics Engrs & Scientists II										
Humanities and Fine Arts <i>3 credit hours required for the A.S. in Biology</i> <i>9 credit hours required for Core 42</i> <small>(Must fulfill 2 disciplines)</small>	ART 100 ART 101 ART 105 ART 120▲	ASL 101 ASL 102 CHN 101 ENG 180	ENG 260 ENG 265 ENG 240 ENG 241	ENG 270 ENG 271 FRN 101 FRN 102	GRM 101 GRM 102 MUS 101 MUS 105	MUS 106 MUS 110 MUS 235*▲ PHL 101	PHL 105 REL 100 REL 101 REL 102	SPN 101 SPN 102 THR 101	3	Varies	✓	
Social/Behavioral Sciences <i>6 credit hours required for the A.S. in Biology</i> <i>9 credit hours required for Core 42</i> & Institutional Elective <i>6 hours required for A.S. in Biology</i>	ANT 101 ANT 220	COM 150 CRM 210	ECO 270 ECO 275	GRY 101 HST 105	HST 106 HST 120	HST 130 PLS 101	PLS 201 PSY 110	PSY 130 SOC 101	3	Varies	✓	
Humanities and Fine Arts <i>3 credit hours required for the A.S. in Biology</i> <i>9 credit hours required for Core 42</i> & Institutional Elective <i>6 hours required for A.S. in Biology</i>	ART 100 ART 101 ART 105 ART 120▲	ASL 101 ASL 102 CHN 101 ENG 180	ENG 260 ENG 265 ENG 240 ENG 241	ENG 270 ENG 271 FRN 101 FRN 102	GRM 101 GRM 102 MUS 101 MUS 105	MUS 106 MUS 110 MUS 235*▲ PHL 101	PHL 105 REL 100 REL 101 REL 102	SPN 101 SPN 102 THR 101	3	Varies	✓	
Semester 4 Total			13-14									
Total Hours at OTC			62-66	<i>Total Hours Applied Toward MSU Major Requirements:</i>		41						

* One credit hour course

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

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MSU Bachelor of Science in Biology - Wildlife and Fisheries Option
after OTC Associate of Science in Biology

MSU Year 3 Semester 1

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement	GLG 110	Principles of Geology	3
Major Requirement	BIO 302	Biology Seminar	1
Major Requirement/ Wildlife Biology	Choose one: BIO 320 BIO 361	Introduction to Cellular Biology General Physiology	4
Major Requirement	BIO 367 ○ and BIO 368	General Ecology and Lab	4
Major Requirement/ Management	Choose minimum of 5 hours total from the following: BIO 373 ○ BIO 509 ○ BIO 533 BIO 589 ○ BIO 485 ○ BIO 532 BIO 562		1-4
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
Semester 1 Total			16-19

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement/ Ecology and Evolution	Choose one: BIO 436 BIO 539 ○ BIO 567 BIO 579 ○ BIO 515 BIO 563 BIO 578 ○ BIO 584 ○		3-4
Major Requirement/ Animal Biology	Choose one: BIO 370 ○ BIO 380 BIO 573 ○ BIO 575 ○ BIO 577 ○ BIO 371 BIO 571 BIO 574 ○ BIO 576 ○		2-5
Major Requirement/ Plant Biology	Choose one: BIO 334 BIO 339 BIO 530 BIO 544		2-4
Humanities and Fine Arts <i>9 credit hours</i> (Must fulfill 2 disciplines)	Choose one: ARB 101 ART 271 ENG 200 ENG 289 ENG 362 ITL 101 KOR 102 MUS 175▲ MUS 345 PHI 115 REL 102 SPN 102 ARB 102 ART 272 ENG 203▲ ENG 340 FRN 101 ITL 102 LLT 121 MUS 176*▲ MUS 346 PTG 101 REL 210 THE 101 ART 115▲ CHI 101 ENG 205▲ ENG 341 FRN 102 JPN 101 MED 274 MUS 178*▲ MUS 347 PTG 102 RUS 101 ART 200 CSD 330 ENG 215▲ ENG 350 GRM 101 JPN 102 MUS 100 MUS 239 PHI 105 REL 100 RUS 102 ART 212 CSD 331 ENG 282 ENG 351 GRM 102 KOR 101 MUS 162*▲ MUS 241 PHI 110 REL 101 SPN 101		3
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
Semester 2 Total			13-19

MSU Year 4 Semester 3

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement/ Animal Biology	Choose one: BIO 370 ○ BIO 380 BIO 573 ○ BIO 575 ○ BIO 577 ○ BIO 371 BIO 571 BIO 574 ○ BIO 576 ○		2-5
Major Requirement/ Animal Biology	Choose one: BIO 370 ○ BIO 380 BIO 573 ○ BIO 575 ○ BIO 577 ○ BIO 371 BIO 571 BIO 574 ○ BIO 576 ○		2-5
Major Requirement/ Plant Biology	Choose one: BIO 334 BIO 339 BIO 530 BIO 544		2-4
Major Requirement	BIO 550	Statistical Methods for Biologists	3
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
Semester 3 Total			12-20

MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Requirement	BIO 492	Biology Program Assessment	0
Major Requirement/ Ecology and Evolution	Choose one: BIO 436 BIO 539 ○ BIO 567 BIO 579 ○ BIO 515 BIO 563 BIO 578 ○ BIO 584 ○		3-4
Major Requirement/ Management	Choose minimum of 5 hours total from the following: BIO 373 ○ BIO 509 ○ BIO 533 BIO 589 ○ BIO 485 ○ BIO 532 BIO 562		5
Public Affairs Capstone Experience	Choose one if not fulfilled in Option Requirements, otherwise choose a general elective course: BIO 300 BIO 398 BIO 501 BIO 512 BIO 561 BIO 577 BIO 355 BIO 399 BIO 505 BIO 520 BIO 573 BIO 578 BIO 367 BIO 485 BIO 508 BIO 527 BIO 574 BIO 579 BIO 370 BIO 498 BIO 509 BIO 539 BIO 575 BIO 584 BIO 373 BIO 499 BIO 511 BIO 547 BIO 576 BIO 589		3
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		6
Semester 4 Total			17-18
Total Hours at MSU			58-76
Total Hours Overall			120-142

** 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

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

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).