

Date Modified:	9.14.2020
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

Catalog Year: 2020-2021

MSU Bachelor of Science in Biology with Chemistry Minor

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
Mathematical Sciences <i>5 hours required for the A.S. in Biology</i>	MTH 138	Pre-Calculus Mathematics	5	MTH 138	✓	
Written Communications <i>6 credit hours</i>	Choose one: ENG 100 ENG 101	Composition I with Support Composition I	3-5	ENG 110	✓	
Natural Sciences <i>7 credit hours</i> <small>(Must fulfill 2 disciplines including one course with a lab component)</small>	BIO 160	General Biology I	4	BIO 121	✓	✓
Social/Behavioral Sciences <i>9 credit hours</i> <small>(Must fulfill 2 disciplines)</small>	Choose one: 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	✓	
Semester 1 Total			15-17			

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	4	BIO 122		✓
Written Communications <i>6 credit hours</i>	Choose one: ENG 102 ENG 150	Composition II Technical Writing	3	ENG 210 ENG 221	✓	
Oral Communications <i>3 credit hours</i>	Choose one: COM 100 COM 105 COM 200	Introduction to Communication Public Speaking Interpersonal Communication	3	GEC 103 COM 115 COM 205	✓	
Social/Behavioral Sciences <i>9 credit hours</i> <small>(Must fulfill 2 disciplines)</small>	Choose one: 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	✓	
Natural Sciences <i>7 credit hours</i> <small>(Must fulfill 2 disciplines including one course with a lab component)</small>	CHM 160 and CHM 161	General Chemistry I and Lab	5	CHM 160 and CHM 161	✓	✓
Semester 2 Total			18			

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: PHY 120 PHY 220	General Physics I Physics Engrs & Scientists I	4-5	PHY 123 PHY 203		✓
Program Specific Course	CHM 170 and CHM 171	General Chemistry II and Lab	5	CHM 170 and CHM 171		✓
Recommended Institutional Elective <i>9 hours required for A.S. in Biology</i>	MTH 140	Analytic Geometry and Calculus I	5	MTH 261		✓
Program Specific Course	BIO 250	Genetics	4	BIO 235 and BIO 236		✓
Semester 3 Total			18-19			

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: PHY 130 PHY 222	General Physics II Physics Engrs & Scientists II	4-5	PHY 124 PHY 204		✓
Humanities and Fine Arts <i>9 credit hours</i> <small>(Must fulfill 2 disciplines)</small>	Choose one: 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 CHN 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	✓	
Social/Behavioral Sciences <i>9 credit hours required for Core 42 & Institutional Elective</i> <i>9 hours required for A.S. in Biology</i>	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	✓	
Recommended Institutional Elective <i>9 hours required for A.S. in Biology</i>	CHM 200	Survey of Organic Chemistry	5	CHM 201 and CHM 202		✓
Semester 4 Total			15-16			
Total Hours at OTC			66-70	<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: 2020-2021

MSU Year 3 Semester 1

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

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
Major Elective	Choose any Biology course numbered 300 and above.		4
General Elective **	Work with your MSU advisor to identify courses that will complement your specific career goals.		3
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

MSU Year 4 Semester 3

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

MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS
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	
Major Requirement	BIO 550	Statistical Methods for Biologists	3
Major Elective	Choose any Biology course numbered 300 and above from Capstone Experience courses.		3
Public Affairs Capstone Experience	Choose one: 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	
Semester 4 Total			12
Total Hours at MSU			54-55
Total Hours Overall			120-125

** 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).