OZARKS TECHNICAL COMMUNITY COLLEGE

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

Catalog Year: 2020-2021

FINISH IN 4 — GO BEARS! MissouriState

OTC Associate of Science in Computer Science to
MSU Bachelor of Science in Computer Science - Software Development Option
(with Cybersecurity Minor)

The following is a guide to graduation with completion of OTC's Associate of Science in Computer Science and MSU's Bachelor of Science in Computer Science degree.
The degree 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 *3 credit hours*	MTH 140	Analytic Geometry and Calculus I	5	MTH 261	✔	✔
Written Communications *6 credit hours*	Choose one:					
	ENG 100 ENG 101	Composition I with Support Composition I	3-5	ENG 110	✔	
Program Specific Course	CIS 120	Introduction to Computer Programming	3	CSC 130		✔
Program Specific Course	CIS 101	Technology and Digital Literacy	3	ITC 200		
		Semester 1 Total	14-16			

OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Course	Choose one:					
	CIS 150 CIS 170	C# Programming I Java Programming I	3	ITC 266 CSC 131		
Oral Communications *3 credit hours*	Choose one:					
	COM 100 COM 105 COM 200		3	Varies	✔	
Program Specific Course	CIS 250	Database and Query	3	ITC 295		✔
Program Specific Course	MTH 141	Analytic Geometry and Calculus II	5	MTH 280		
Program Specific Course	CIS 130	Web Site Development I	3	ITC 205		
		Semester 2 Total	17			

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: ◈					
	CIS 151 CIS 171	C# Programming II Java Programming II	3	CSC 131		✔
Program Specific Course	CSC 210	Data Structures	4	CSC 232		✔
Natural Sciences *7 credit hours* (Must fulfill 2 disciplines including one course with a lab component)	Choose one:					
	BIO 160 CHM 101 CHM 160	General Biology I Introductory Chemistry General Chemistry I	4	BIO 121 CHM 116/117 CHM 160	✔	✔
Program Specific Course	CIS 131	Web Site Development II	3	CSC 365		✔
Program Specific Elective	Choose any course from CSC, CIS 125 or higher or MTH 130 or higher in consultation with advisor.		3	Varies		
		Semester 3 Total	17			

OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Written Communications *6 credit hours*	ENG 150 ○	Technical Writing	3	ENG 321	✔	✔
Natural Sciences *7 credit hours* (Must fulfill 2 disciplines including one course with a lab component)	PHY 220	Physics for Engineers and Scientists I	5	PHY 203	✔	
Social/Behavioral Sciences *9 credit hours* (Must fulfill 2 disciplines)	Choose one:					
	HST 120 PLS 101	U.S. History I: to 1865 American Government and Politics	3	HST 121 PLS 101	✔	
Program Specific Course	CIS 260	Software Engineering Project	3	CSC 450		✔
Program Specific Elective	Choose any course from CSC, CIS 125 or higher or MTH 130 or higher in consultation with advisor.		3	Varies		
		Semester 4 Total	17	*Total Hours Applied Toward MSU Major Requirements:*		31
		Total Hours at OTC	67-69			

◈ Choose CIS 151 if you have taken CIS 150 and choose CIS 171 if you have taken CIS 170

○ Upon transfer to MSU, please contact the MSU Transfer Advisor to receive permission to have OTC's ENG 150 transfer as MSU's ENG 321.

Missouri State
U N I V E R S I T Y

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

Catalog Year: 2020-2021

MSU Bachelor of Science in Computer Science - Software Development Option
(with Cybersecurity Minor)
after OTC Associate of Science in Computer Science

MSU Year 3 Semester 1

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts *9 credit hours* (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
Cybersecurity Minor Requirement	ITC 235	Computer Hardware and Operating Systems	3
Major Requirement	CSC 335	Database System Concepts	3
Major Requirement	CSC 338	Parallel and Distributed Computing	2
Major Requirement	CSC 344	Computer Systems Fundamentals	3
		Semester 1 Total	**14**

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Social/Behavioral Sciences *9 credit hours* (Must fulfill 2 disciplines)	Choose one: ECO 165 PSY 121	Principles of Microeconomics Introductory Psychology	3
Major Requirement	CSC 388	Introduction to Secure Computing	2
Cybersecurity Minor Elective	ITC 330	Introduction to Networking	3
Major Elective	Choose one course from CSC 300 and CSC courses numbered higher than 303, with no more than 3 hours in CSC 399 and no more than 3 hours in CSC 596.		3
Major Requirement	CSC 455	Software Quality Assurance and Project Management	3
Software Development Option Requirement	Choose 3 additional hours from eligible CSC courses numbered 500 or higher (excluding CSC 596).		3
		Semester 2 Total	**17**

MSU Year 4 Semester 3

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts *9 credit hours* (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 Elective	Choose one course from CSC 300 and CSC courses numbered higher than 303, with no more than 3 hours in CSC 399 and no more than 3 hours in CSC 596.		3
Cybersecurity Minor Requirement	ITC 560	Fundamentals of Cybersecurity	3
Software Development Option Requirement	Choose one: BIO 121 CHM 116/117 GLG 110 GRY 142 or MTH courses numbered BMS 110/111 CHM 160/161 GRY 135 PHY 203 302 or higher that count toward the Math major		3
Software Development Option Requirement	Choose one: MKT 350 MGT 340 COM 315 PSY 305 PSY 481		3
		Semester 3 Total	**15**

MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts *9 credit hours* (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 Elective	Choose one course from CSC 300 and CSC courses numbered higher than 303, with no more than 3 hours in CSC 399 and no more than 3 hours in CSC 596.		3
Social/Behavioral Sciences *9 credit hours* (Must fulfill 2 disciplines)	Choose one: ECO 165 PSY 121	Principles of Microeconomics Introductory Psychology	3
Major Requirement	CSC 482	Seminar in Computer Science	1
Cybersecurity Minor Requirement	ITC 564	Introduction to Ethical Hacking	3
Cybersecurity Minor Requirement	ITC 583	Cloud Computing	3
		Semester 4 Total	**16**
		Total Hours at MSU	**62**
		Total Hours Overall	**129-131**

** 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.

✳ One credit hour course   ▲ May choose only one, falls under MOTR code 'PERF'

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).