

Date Modified:	5.29.20
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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: 2019-2020

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 <i>3 credit hours</i>	MTH 140	Analytic Geometry and Calculus I	5	MTH 261	✓	✓
Written Communications <i>6 credit hours</i>	Choose one:		3-5	ENG 110	✓	
	ENG 100 ENG 101	Composition I with Support Composition I				
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:		3	ITC 266 CSC 131		
	CIS 150 CIS 170	C# Programming I Java Programming I				
Oral Communications <i>3 credit hours</i>	Choose one:		3	GEC 103 COM 115 COM 205	✓	
	COM 100 COM 105 COM 200	Introduction to Communication Public Speaking Interpersonal Communication				
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: ♦		3	CSC 131		✓
	CIS 151 CIS 171	C# Programming II Java Programming II				
Program Specific Course	CSC 210	Data Structures	4	CSC 232		✓
Natural Sciences <i>7 credit hours</i> (Must fulfill 2 disciplines including one course with a lab component)	Choose one:		4	BIO 121 CHM 116/117 CHM 160	✓	✓
	BIO 160 CHM 101 CHM 160	General Biology I Introductory Chemistry General Chemistry I				
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 <i>6 credit hours</i>	ENG 150 ○	Technical Writing	3	ENG 221	✓	✓
Natural Sciences <i>7 credit hours</i> (Must fulfill 2 disciplines including one course with a lab component)	PHY 220	Physics for Engineers and Scientists I	5	PHY 203	✓	
	Choose one:		3	HST 121 PLS 101	✓	
HST 120 PLS 101	U.S. History I: to 1865 American Government and Politics					
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 at OTC			67-69	<i>Total Hours Applied Toward MSU Major Requirements:</i>		31

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

○ This course fulfills the Writing II requirement for the B.S. in Computer Science - Software Development option at MSU.

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**MSU Bachelor of Science in Computer Science - Software Development Option
(with Cybersecurity Minor)**

Catalog Year: 2019-2020

MSU Year 3 Semester 1

after OTC Associate of Science in Computer Science

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 212 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 <i>9 credit hours</i> (Must fulfill 2 disciplines)	Choose one: ECO 165 Principles of Microeconomics PSY 121 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 <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 212 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 302 or higher that count toward the Math major BMS 110/111 CHM 160/161 GRY 135 PHY 203	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 <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 212 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 <i>9 credit hours</i> (Must fulfill 2 disciplines)	Choose one: ECO 165 Principles of Microeconomics PSY 121 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).