

Date Modified:	5.11.22
MSU Transfer Advisor:	Ajay Katangur AjayKatangur@MissouriState.edu 417-836-6646

OZARKS TECHNICAL COMMUNITY COLLEGE

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

Catalog Year: 2022-2023



OTC Associate of Science in Computer Science to MSU Bachelor of Science in Computer Science - Computer Science Option

The following is a guide to graduation with completion of OTC's Associate of Science and MSU's Bachelor of Science in Computer Science degree.
The B.S. in Computer Science may be completed on campus only.
This is a non-comprehensive major meaning it requires a minor or second major. ♦

OTC Year 1 Semester 1

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Course	CIS 120	Introduction to Computer Programming	3	CSC 130		✓
Written Communications <i>6 credit hours total required for CORE 42</i>	Choose one:		3-5	ENG 110	✓	
	ENG 100 ENG 101	Composition I with Support Composition I				
Mathematical Sciences <i>3 credit hours total required for CORE 42</i>	MTH 140 ♦	Analytic Geometry and Calculus I	5	MTH 261	✓	✓
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 000		
	CIS 150 CIS 170	C# Programming I Java Programming I				
Oral Communications <i>3 credit hours total required for CORE 42</i>	Choose one:		3	Varies	✓	
COM 100	COM 105	COM 200				
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		
Program Specific Elective <i>3 hours required for the A.S. Computer Science</i>	Choose one: ♦		3	MTH 314 MTH 315	✓	✓
	MTH 214 MTH 215	Discrete Mathematics Algebraic Structures				
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		✓
Program Specific Course	CIS 250	Database and Query	3	ITC 295		
Program Specific Course	CIS 131	Web Site Development II	3	CSC 365		✓
Natural Sciences <i>7 credit hours total required for CORE 42</i> (Must fulfill 2 disciplines including one course with a lab component)	BIO 160	General Biology I	4	BIO 121	✓	✓
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
Natural Sciences <i>7 credit hours total required for CORE 42</i> (Must fulfill 2 disciplines including one course with a lab component)	Choose one:		4-5	PHY 123 PHY 203	✓	✓
	PHY 120 PHY 220	General Physics I Physics Engrs & Scientists I				
Social/Behavioral Sciences <i>9 credit hours total required for CORE 42</i> (Must fulfill 2 disciplines)	Choose one:		3	HST 121 HST 122 PLS 101	✓	
	HST 120 HST 130 PLS 101	U.S. History I: to 1865 U.S. History II: 1865-Present American Government and Politics				
Program Specific Course	CIS 260	Software Engineering Project	3	CSC 000		
Program Specific Course	CSC 244	Computer Architecture	3	-		
Semester 4 Total			13-14			
Total Hours at OTC			61-64	<i>Total Hours Applied Toward MSU Major Requirements:</i>		34

♦ If CIS 150 is a program selection, CIS 170 or CIS 171 can be taken as an elective. If CIS 170 is a program selection, CIS 150 or 151 may be taken as an elective.

♦ Counts toward a minor in Mathematics

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MSU Bachelor of Science in Computer Science - Computer Science Option
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 <i>9 credit hours required for Core 42</i> (Must fulfill 2 disciplines)	Choose one: ARB 101 ART 271 ARB 102 ART 272 ART 115▲ CHI 101 ART 200 CSD 330 ART 212▲ CSD 331	ENG 200 ENG 289 ENG 362 ENG 203▲ ENG 340 FRN 101 ENG 205▲ ENG 341 FRN 102 ENG 215▲ ENG 350 GRM 101 ENG 282 ENG 351 GRM 102	ITL 101 KOR 102 MUS 175▲ ITL 102 LLT 121 MUS 176*▲ JPN 101 MED 274 MUS 178*▲ JPN 102 MUS 100 MUS 239 KOR 101 MUS 162*▲ MUS 241	MUS 345 PHI 115 REL 102 SPN 102 MUS 346 PTG 101 REL 210 THE 101 MUS 347 PTG 102 RUS 101 PHI 105 REL 100 RUS 102 PHI 110 REL 101 SPN 101	3		
Social/Behavioral Sciences <i>9 credit hours required for Core 42</i> (Must fulfill 2 disciplines)	Choose one: ANT 100 ANT 125 ANT 303 CFD 155	COM 260 CRM 210 ECO 101 ECO 155	ECO 165 GRY 100 HST 103 HST 104	HST 121 HST 122 MED 120 PLN 100	PLS 101 PLS 205 PLS 232 PSY 121	SOC 150 SOC 152	3
General Elective	Work with your MSU advisor to identify courses that will complement your specific career goals.					4	
Major Requirement	CSC 335	Database Systems Concepts			3		
Major Requirement	CSC 244	Computer Architecture			3		
Semester 1 Total					16		

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS	
Major Requirement	CSC 325	Algorithms and Advanced Data Structures	3	
Major Requirement	CSC 360	Operating Systems	3	
Major Requirement	CSC 388	Introduction to Secure Computing	3	
Major Requirement	CSC 482	Seminar in Computer Science	1	
Written Communication <i>6 credit hours required for Core 42</i>	Choose one: ENG 210 ENG 221	Writing II: Writing Across the Disciplines Writing II: Writing for the Professions	3	
Major Elective	Choose one class from CSC 300 and CSC courses numbered higher than 303, with no more than three hours in CSC 399 and no more than three hours in CSC 596. <i>Courses not eligible: CSC 500, 505, and 510</i>			3
Semester 2 Total				16

MSU Year 4 Semester 3

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS				
Humanities and Fine Arts <i>9 credit hours required for Core 42</i> (Must fulfill 2 disciplines)	Choose one: ARB 101 ART 271 ARB 102 ART 272 ART 115▲ CHI 101 ART 200 CSD 330 ART 212▲ CSD 331	ENG 200 ENG 289 ENG 362 ENG 203▲ ENG 340 FRN 101 ENG 205▲ ENG 341 FRN 102 ENG 215▲ ENG 350 GRM 101 ENG 282 ENG 351 GRM 102	ITL 101 KOR 102 MUS 175▲ ITL 102 LLT 121 MUS 176*▲ JPN 101 MED 274 MUS 178*▲ JPN 102 MUS 100 MUS 239 KOR 101 MUS 162*▲ MUS 241	MUS 345 PHI 115 REL 102 SPN 102 MUS 346 PTG 101 REL 210 THE 101 MUS 347 PTG 102 RUS 101 PHI 105 REL 100 RUS 102 PHI 110 REL 101 SPN 101	3		
Major Requirement	CSC 333	Language and Machines	2				
Major Requirement	CSC 565	Computer Networks	3				
Social/Behavioral Sciences <i>9 credit hours</i> (Must fulfill 2 disciplines)	Choose one: ANT 100 ANT 125 ANT 303 CFD 155	COM 260 CRM 210 ECO 101 ECO 155	ECO 165 GRY 100 HST 103 HST 104	HST 121 HST 122 MED 120 PLN 100	PLS 101 PLS 205 PLS 232 PSY 121	SOC 150 SOC 152	3
Major Elective	Choose one class from CSC 300 and CSC courses numbered higher than 303, with no more than three hours in CSC 399 and no more than three hours in CSC 596. <i>Courses not eligible: CSC 500, 505, and 510</i>			3			
Semester 3 Total				14			

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 ARB 102 ART 272 ART 115▲ CHI 101 ART 200 CSD 330 ART 212▲ CSD 331	ENG 200 ENG 289 ENG 362 ENG 203▲ ENG 340 FRN 101 ENG 205▲ ENG 341 FRN 102 ENG 215▲ ENG 350 GRM 101 ENG 282 ENG 351 GRM 102	ITL 101 KOR 102 MUS 175▲ ITL 102 LLT 121 MUS 176*▲ JPN 101 MED 274 MUS 178*▲ JPN 102 MUS 100 MUS 239 KOR 101 MUS 162*▲ MUS 241	MUS 345 PHI 115 REL 102 SPN 102 MUS 346 PTG 101 REL 210 THE 101 MUS 347 PTG 102 RUS 101 PHI 105 REL 100 RUS 102 PHI 110 REL 101 SPN 101	3
Major Elective	Choose one class from CSC 300 and CSC courses numbered higher than 303, with no more than three hours in CSC 399 and no more than three hours in CSC 596. <i>Courses not eligible: CSC 500, 505, and 510</i>			3	
Major Requirement	MTH 345 ◇	Statistics for Scientists and Engineers	3		
Major Requirement	CSC 450	Introduction to Software Engineering	4		
Semester 4 Total			13		
Total Hours at MSU			59		
Total Hours Overall			120-123		

Successful completion of the computer science major field test (MFT) with at least a score of 145 is required.

** 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'

◇ Counts toward a minor in Mathematics

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).