

Date Modified:	7.19.19
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# OZARKS TECHNICAL COMMUNITY COLLEGE

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

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

Catalog Year: 2019-2020

The following is a guide to graduation with completion of OTC's Associate of Arts and MSU's Bachelor of Science in Computer Science degree.

The B.S. in Computer Science 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
Program Specific Course	CIS 120	Introduction to Computer Programming	3	CSC 130		✓
Written Communications <i>6 credit hours required for Core 42</i>	<b>Choose one:</b>		3-5	ENG 110	✓	
	ENG 100 ENG 101	Composition I with Support Composition I				
Mathematical Sciences <i>3 credit hours</i>	MTH 140 ♦	Analytic Geometry and Calculus I	5	MTH 261	✓	✓
Program Specific Course	CIS 101	Technology and Digital Literacy	3	ITC 200		
<b>Semester 1 Total</b>			<b>14-16</b>			

### OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT		
Program Specific Course	<b>Choose one: ♦</b>		3	ITC 266 ITC 260/ CSC 131				
	CIS 150 CIS 170	C# Programming I Java Programming I						
Oral Communications <i>3 credit hours</i>	<b>Choose one:</b>		3	GEC 103 COM 115 COM 205	✓			
COM 100 COM 105 COM 200	Introduction to Communication Public Speaking Interpersonal Communication							
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>6 hours required for the A.S. Computer Science</i>	<b>Choose one: ♦</b>		3-5	Varies				
	CIS 125	CIS 170					CIS 222	CIS 290
	CIS 139	CIS 171					CIS 230	CSC 140
	CIS 150	CIS 201					CIS 235	MTH 130 or higher
	CIS 151	CIS 220					CIS 239	
<b>Semester 2 Total</b>			<b>17-19</b>					

### OTC Year 2 Semester 3

REQUIREMENT DESCRIPTION	OTC COURSE ID	TITLE	CREDIT HOURS	MSU EQUIVALENT	MEETS CORE 42	MSU MAJOR REQUIREMENT
Program Specific Course	<b>Choose one: ♦</b>		3	ITC 270/ 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</i> <small>(Must fulfill 2 disciplines including one course with a lab component)</small>	<b>Choose one:</b>		4	Varies	✓	✓
	BIO 160	CHM 101      PHY 110      CHM 160				
<b>Semester 3 Total</b>			<b>17</b>			

### 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</i> <small>(Must fulfill 2 disciplines including one course with a lab component)</small>	PHY 220	Physics Engrs & Scientists I	5	PHY 203	✓	✓		
	<b>Choose one:</b>		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	<b>Choose one: ♦</b>		3-5	Varies				
	CIS 125	CIS 170					CIS 222	CIS 290
	CIS 139	CIS 171					CIS 230	CSC 140
	CIS 150	CIS 201					CIS 235	MTH 130 or higher
	CIS 151	CIS 220					CIS 239	
<b>Semester 4 Total</b>			<b>14-16</b>					
<b>Total Hours at OTC</b>			<b>62-68</b>	<i>Total Hours Applied Toward MSU Major Requirements:</i>		35		

\* One credit hour course

♦ 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**

**Catalog Year: 2019-2020**

**MSU Year 3 Semester 1**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS										
<b>Humanities and Fine Arts</b> <i>9 credit hours required for Core 42</i>  (Must fulfill 2 disciplines)	<b>Choose one:</b>												
	ARB 101	ART 271	ENG 200	ENG 289	ENG 362	ITL 101	KOR 102	MUS 175▲	MUS 345	PHI 115	REL 102	SPN 102	3
	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			
<b>Written Communication</b> <i>6 credit hours required for Core 42</i>	<b>Choose one:</b>												
	ENG 210 ENG 221	Writing II: Writing Across the Disciplines Writing II: Writing for the Professions											3
<b>Major Requirement</b>	CSC 335	Database System Concepts											3
<b>Major Requirement</b>	CSC 338	Parallel and Distributed Computing											2
<b>Major Requirement</b>	CSC 344	Computer Systems Fundamentals											3
<b>Semester 1 Total</b>												<b>14</b>	

**MSU Year 3 Semester 2**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS										
<b>Social/Behavioral Sciences</b> <i>9 credit hours required for Core 42</i>  (Must fulfill 2 disciplines)	<b>Choose one:</b>												
	ANT 100	COM 260	ECO 165	HST 121	PLS 101	SOC 150	3						
	ANT 125	CRM 210	GRY 100	HST 122	PLS 205	SOC 152							
	ANT 303	ECO 101	HST 103	MED 120	PLS 232								
	CFD 155	ECO 155	HST 104	PLN 100	PSY 121								
<b>Major Requirement</b>						CSC 388		Introduction to Secure Computing	2				
<b>Major Requirement</b>	MTH 314	Discrete Mathematics											3
<b>Computer Science Option Requirement</b> <i>5 credit hours required</i>	<b>Choose one:</b>												
	BIO 121 BMS 110 and 111 CHM 116 and 117	CHM 160 and 161 GLG 110 GRY 135	GRY 142 PHY 204 MTH courses numbered 302 or higher that count toward the Math Major					3					
<b>Major Elective</b>	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.											3	
<b>Semester 2 Total</b>												<b>14</b>	

**MSU Year 4 Semester 3**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS										
<b>Humanities and Fine Arts</b> <i>9 credit hours required for Core 42</i>  (Must fulfill 2 disciplines)	<b>Choose one:</b>												
	ARB 101	ART 271	ENG 200	ENG 289	ENG 362	ITL 101	KOR 102	MUS 175▲	MUS 345	PHI 115	REL 102	SPN 102	3
	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			
<b>Major Requirement</b>	CSC 333	Language and Machines											2
<b>Major Elective</b>	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.												3
<b>Major Requirement</b>	CSC 325	Algorithms and Advanced Data Structures											3
<b>General Elective **</b>	Work with your MSU advisor to identify a MOTR coded course that will complement your specific career goals.											3	
<b>Semester 3 Total</b>												<b>14</b>	

**MSU Year 4 Semester 4**

REQUIREMENT DESCRIPTION	MSU COURSE ID	TITLE	CREDIT HOURS										
<b>Humanities and Fine Arts</b> <i>9 credit hours</i>  (Must fulfill 2 disciplines)	<b>Choose one:</b>												
	ARB 101	ART 271	ENG 200	ENG 289	ENG 362	ITL 101	KOR 102	MUS 175▲	MUS 345	PHI 115	REL 102	SPN 102	3
	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			
<b>Major Elective</b>	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.												3
<b>Major Requirement</b>	MTH 345	Statistics for Scientists and Engineers											3
<b>Computer Science Option Requirement</b> <i>5 credit hours required</i>	Choose from MTH courses numbered 302 or higher that count toward the Math major (will also count toward the Math Minor).												3
<b>Social/Behavioral Sciences</b> <i>9 credit hours</i>  (Must fulfill 2 disciplines)	<b>Choose one:</b>												
	ANT 100	COM 260	ECO 165	ANT 125	CRM 210	GRY 100	HST 121	PLS 101	SOC 150				3
	ANT 303	ECO 101	HST 103	HST 122	PLS 205	SOC 152							
	CFD 155	ECO 155	HST 104	PLN 100	PSY 121								
	<b>Major Requirement</b>						CSC 482	Seminar in Computer Science					
<b>Semester 4 Total</b>												<b>16</b>	
<b>Total Hours at MSU</b>												<b>58</b>	
<b>Total Hours Overall</b>												<b>120-126</b>	

\*\* 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.

▲ 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).

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