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# OZARKS TECHNICAL COMMUNITY COLLEGE



## OTC Associate of Science in Computer Science

to

### MSU Bachelor of Science in Computer Science - Software Development Option with Cybersecurity Minor

Available on campus only.

Comprehensive majors do not require a minor or second major.

#### OTC Year 1 Semester 1

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Program Requirement</b>	CIS 101	Technology and Digital Literacy	3	ITC 200	
<b>Natural Sciences*</b>	BIO 160	General Biology I	4	BIO 121	✓
<b>Program Elective</b>	<b>Choose one:</b>		3	MTH 137 MTH 138	
	MTH 131 MTH 138	Trigonometry Pre-Calculus Mathematics			
<i>*"C" or better in MTH 131 or MTH 138 required pre-requisite for MTH 140 program requirement in semester</i>					
<b>Written Communications</b>	<b>Choose one:</b>		3-5	ENG 110	
	ENG 100 ENG 101	Composition I with Support Composition I			
<b>Program Requirement</b>	CIS 120	Introduction to Computer Programming	3	CSC 130	✓
<b>Semester 1 Total</b>			<b>16-18</b>		

#### OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Oral Communications</b>	<a href="#">Choose one Oral Communications course.</a>		3	Varies	
<b>Mathematical Sciences</b>	MTH 140 ♦	Analytic Geometry and Calculus I	5	MTH 261	✓
<b>Program Requirement</b>	<b>Choose one: ♦</b>		3	ITC 000	
	CIS 150 CIS 170	C# Programming I Java Programming I			
<b>Program Requirement</b>	CIS 130	Web Site Development I	3	ITC 205	
<b>Program Elective</b> <i>3 hours required for the A.S. Computer Science</i>	<b>Choose one: ♦</b>		3	MTH 314 MTH 315	✓
	MTH 214 MTH 215	Discrete Mathematics Algebraic Structures			
<b>Semester 2 Total</b>			<b>17</b>		

#### OTC Year 2 Semester 3

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Program Requirement</b>	<b>Choose one: ♦</b>		3	CSC 131	✓
	CIS 151 CIS 171	C# Programming II Java Programming II			
<b>Program Requirement</b>	MTH 141 ♦	Analytic Geometry and Calculus II	5	MTH 280	
<b>Program Requirement</b>	CSC 210	Data Structures	4	CSC 232	✓
<b>Program Requirement</b>	CIS 250	Database and Query	3	ITC 295	
<b>Program Requirement</b>	CIS 131	Web Site Development II	3	CIS 130+ CIS 131= CSC 365	✓
<b>Semester 3 Total</b>			<b>18</b>		

#### OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
<b>Natural Sciences*</b>	<b>Choose one:</b>		4-5	PHY 123 PHY 203	✓
	PHY 120 PHY 220	General Physics I Physics Engrs & Scientists I			
<b>Social/Behavioral Sciences* - Civics</b>	PLS 101	HST 120 HST 130	3	PLS 101 HST 121 HST 122	
<b>Program Requirement</b>	CIS 260	Software Engineering Project	3	CSC 000	
<b>Program Requirement</b>	CSC 244	Computer Architecture	3	CSC 244	✓
<b>Semester 4 Total</b>			<b>13-14</b>		
<b>Total Hours at OTC</b>			<b>64-67</b>	<i>Total MSU Major Hours:</i>	32-33

\*Must fulfill two disciplines

