

MSU Program Contact Info:	Dr. Ajay Katangur AjayKatangur@MissouriState.edu 417-836-6646
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OZARKS TECHNICAL COMMUNITY COLLEGE

FINISH IN 4

GO
BEARS!
Missouri State

OTC Associate of Science in Computer Science

to

MSU Bachelor of Science in Computer Science - Computer Science Option with Mathematics minor

Available on campus only.

Non-comprehensive majors require a minor or second major. ♦

OTC Year 1 Semester 1

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Program Requirement	CIS 101	Technology and Digital Literacy	3	ITC 200	
Program Requirement	CIS 120	Introduction to Computer Programming	3	CSC 130	✓
Program Elective	Choose one:		3	MTH 137 MTH 138	
	MTH 131	Trigonometry			
	MTH 138	Pre-Calculus Mathematics			
<i>"C" or better in MTH 131 or MTH 138 required pre-requisite for MTH 140 program requirement in semester</i>					
Oral Communications	Choose one Oral Communications course.		3	Varies	
Written Communications	Choose one:		3-5	ENG 110	
	ENG 100	Composition I with Support			
ENG 101	Composition I				
Semester 1 Total			15-17		

OTC Year 1 Semester 2

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Program Requirement	CIS 130	Web Site Development I	3	ITC 205	
Mathematical Sciences	MTH 140 ♦	Analytic Geometry and Calculus I	5	MTH 261	✓
Natural Sciences*	BIO 160	General Biology I	4	BIO 121	✓
Program Requirement	Choose one: ⚡		3	ITC 000	
	CIS 150	C# Programming I			
CIS 170	Java Programming I				
Semester 2 Total			15		

OTC Year 2 Semester 3

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Program Requirement	Choose one: ⚡		3	CSC 131	✓
	CIS 151	C# Programming II			
CIS 171	Java Programming II				
Program Requirement	MTH 141 ♦	Analytic Geometry and Calculus II	5	MTH 280	✓
Core Elective	MTH 214 ♦	Discrete Mathematics	3	MTH 314	✓
Program Requirement	CIS 250	Database and Query	3	ITC 295	
Program Requirement	CIS 131	Web Site Development II	3	CIS 130+ CIS 131= CSC 365	✓
Semester 3 Total			17		

OTC Year 2 Semester 4

REQUIREMENT DESCRIPTION	OTC COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Natural Sciences*	Choose one:		4-5	PHY 123 PHY 203	✓
	PHY 120	General Physics I			
PHY 220	Physics Engrs & Scientists I				
Program Requirement	CSC 210	Data Structures	4	CSC 232	✓
Social/Behavioral Sciences* - Civics	Choose one:		3	PLS 101 HST 121 HST 122	
	PLS 101	HST 120			
HST 130					
Program Requirement	CIS 260	Software Engineering Project	3	CSC 000	
Program Requirement	CSC 244	Computer Architecture	3	CSC 244	✓
Semester 4 Total			17-18		
Total Hours at OTC			64-67	Total MSU Major Hours:	37-38

*Must fulfill two disciplines

♦ Counts toward a minor in Mathematics

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Missouri State

U N I V E R S I T Y

MSU Bachelor of Science in Computer Science - Computer Science Option with Mathematics 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*	<u>Choose one Humanities and Fine Arts course.</u>		3
Social/Behavioral Sciences	<u>Choose one Social and Behavioral Sciences course.</u>		3
Major Requirement	CSC 335	Database Systems Concepts	3
Major Requirement	CSC 325	Algorithms and Advanced Data Structures	3
General Elective **	Choose an elective course in consultation with your advisor.		3
Semester 1 Total			15

MSU Year 3 Semester 2

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Major Requirement	CSC 333	Languages and Machines	2
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	Choose one:		3
	ENG 210 ENG 221	Writing II: Writing Across the Disciplines Writing II: Writing for the Professions	
Major Elective	<u>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.</u> <i>Courses not eligible: CSC 500, 505, and 510</i>		3
Semester 2 Total			15

MSU Year 4 Semester 3

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts*	<u>Choose one Humanities and Fine Arts course.</u>		3
Social/Behavioral Sciences	<u>Choose one Social and Behavioral Sciences course.</u>		3
Major Requirement	CSC 565	Computer Networks	3
General Elective **	Choose an elective course in consultation with your advisor.		3
Major Elective	<u>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.</u> <i>Courses not eligible: CSC 500, 505, and 510</i>		3
Semester 3 Total			15

MSU Year 4 Semester 4

REQUIREMENT DESCRIPTION	MSU COURSE ID/TITLE		CREDIT HOURS
Humanities and Fine Arts*	<u>Choose one Humanities and Fine Arts course.</u>		3
Major Elective	<u>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.</u> <i>Courses not eligible: CSC 500, 505, and 510</i>		3
Major Requirement	Choose one: ♦		3
	MTH 345 MTH 540	Statistics for Scientists and Engineers Statistical Theory I	
Major Requirement	CSC 450	Introduction to Software Engineering	4
General Elective **	Choose an elective course in consultation with your advisor.		1
Semester 4 Total			14
Total Hours at MSU			59
Total Hours Overall			123-126

**Work with your MSU advisor to identify courses that will complement your specific career goals. 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.

* Must fulfill two disciplines

♦ 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).