

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



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	✓
Written Communications	Choose one:		3-5	ENG 110	
	ENG 100 ENG 101	Composition I with Support Composition I			
Mathematical Sciences	MTH 140 ♦	Analytic Geometry and Calculus I	5	MTH 261	✓
Semester 1 Total			14-16		

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	
Program Requirement	Choose one: ♠		3	ITC 000	
	CIS 150 CIS 170	C# Programming I Java Programming I			
Program Requirement Core Elective	MTH 141 ♦	Analytic Geometry and Calculus II	5	MTH 280	✓
Oral Communications	<u>Choose one Oral Communications course.</u>		3	Varies	
Program Elective/ MTH Minor Requirement	MTH 214 ♦	Discrete Mathematics	3	MTH 314	✓
Semester 2 Total			17		

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 CIS 171	C# Programming II Java Programming II			
Program Requirement	CSC 210	Data Structures	4	CSC 232	✓
Program Requirement	CIS 250	Database and Query	3	ITC 295	
Program Requirement	CIS 131	Web Site Development II	3	CSC 365	✓
Natural Sciences*	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	MSU MAJOR REQUIREMENT
Natural Sciences*	Choose one:		4-5	PHY 123 PHY 203	✓
	PHY 120 PHY 220	General Physics I Physics Engrs & Scientists I			
Social/Behavioral Sciences* - Civics	PLS 101	HST 120 HST 130	3	PLS 101 HST 121 HST 122	
Program Requirement	CIS 260	Software Engineering Project	3	CSC 000	
Program Requirement	CSC 244	Computer Architecture	3	CSC 244	✓
Semester 4 Total			13-14	<i>Total MSU Major Hours</i>	37-38
Total Hours at OTC			61-64		

*Must fulfill two disciplines

♦ Counts toward a minor in Mathematics

♠ 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.

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**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 Writing II: Writing Across the Disciplines ENG 221 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 Statistics for Scientists and Engineers MTH 540 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		120-123

**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).