



Mississippi Valley State University
 Department of Mathematics, Computer and Information Sciences
 Major: Computer Science with Concentration in Computer Science Track
 Catalog Year: 2021-2023

ACADEMIC MAP

Degree Requirements	Details
Total Credit Hours	120/121 credit hours
Grade Point Average (GPA)	2.0 GPA
Residency Rule	Complete a minimum of 25% of the total credit hours requirement of the degree program at MVSU.
"D" Policy	Students are allowed one (1) "D" in major courses.
Academic Advisor	
Student Name	
Student ID#	

General Core Curriculum	Course Number	Credit Hours	Semester Offered	General Core Curriculum	Course Number	Credit Hours	Semester Offered
English Composition	EN 101 EN 102	6	FA & SP	Social and Behavioral Sciences: Economics, Geography, Political Science, Psychology, Public Administration and Sociology		6	FA & SP
Humanities: History and English Literature <i>Students must take (6hrs EN Lit & 3hrs HI or 6hrs HI & 3hrs EN Lit)</i>		9	FA & SP	Speech	SP 201	3	FA & SP
Fine Arts	AR 101 or MU 107 or TH 201	3	FA & SP	Health and Physical Education or ROTC	HL 101 or PE 102 MS 101	2/3	FA & SP
Orientation	FY 101	1	FA & SP	College Algebra or Higher Level Mathematics		3	FA & SP
Natural Science		6/8	FA & SP				

Subtotal 39/42

Semester 1	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
English Composition - Freshman Composition	EN 101	3	FA & SP				EN 100B or English Score of 17
Fine Arts	See above	3	FA & SP				
Humanities I	See above	3	FA & SP				
College Algebra or Higher Level Mathematics - Calculus I	MA 299	3	FA & SP				MA 111, MA 150, or Math Score of 22
Survey of Computer Science	CS 112	3	FA & SP				Must be a CS, MA or MA Education Major
Orientation	CS 191	1	FA			FY 101	
Total Hours		16					

Semester 2	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Freshman Composition	EN 102	3	FA, SP, S2				EN 101
Health, Physical Education or ROTC	See above	2/3	FA & SP				
Social & Behavioral Sciences I	See above	3					
Calculus II	MA 300	3	FA & SP				MA 299
Computer Programming I	CS 203	3	FA & SP				CS 112
Computer Seminar	CS 192	1	SP				Must be a CS Major
Total Hours		15/16					

Semester 3	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Computer Programming II	CS 204	3	FA & SP				CS 203
Natural Sciences I - Physics I	PH 211	4	FA				MA 111 and MA 112
Natural Sciences I - Physics I Lab	PH 211L	0	FA				PH 211
Discrete Structures	CS 341	3	FA				MA 300
Humanities II	See above	3					
Calculus III	MA 301	3	FA & SP				MA 300
Total Hours		16					

Semester 4	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Humanities III	See above	3	FA & SP				
Natural Sciences II - Physics II	PH 212	4	SP				PH 211 and PH 212L
Natural Sciences II - Physics II Lab	PH 212L	0	SP				PH 212
Data Structures	CS 205	3	FA & SP				CS 204
Java or Visual Basic Programming	CS 221* or CS 231**	3	SP				CS 203
Speech - Fundamentals of Public Speaking	SP 201	3	FA & SP				
Total Hours		16	* Offered every odd year. **Offered every even year.				

Semester 5	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Database Management Systems	CS 351	3	FA				CS 204
Social & Behavioral Sciences II	See above	3					
Computer Architecture	CS 321	3	FA				CS 204
Introduction to Algorithms	CS 323	3	FA				CS 205
BI 111 (Zoology)	BI 111	3	FA FA			BI 112 CH 111	BI 111L
BI 111L (Zoology) Lab	BI 111L	1	FA FA			BI 112L CH 111L	BI 111
Social & Ethical Issues in Computer Science	CS 398***	1	FA				Must be a SO or JR and Computer Science Major
Total Hours		17	*** Offered Every Odd Year Fall Semester				

Semester 6	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Principles of Programming Languages	CS 350	3	SP				CS 205
Operating Systems	CS 371	3	SP				CS 205 and CS 321
Linear Algebra	MA 331	3	SP				MA 300
Ordinary & Partial Differential Equations	MA 421	3	SP				MA 300
Software Engineering	CS 425	3	SP				CS 351
Total Hours		15					

Semester 7	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Math Elective	See above	3	FA				Math electives must be 300 or above
Introduction to Networking	CS 422	3	FA				CS 371
Senior Project	CS 455	3	FA				Must be a Senior and a Computer Science Major
Introduction to Cyber Security	CS 423	3	FA				CS 371
Total Hours		12					

Semester 8	Course Number	Credit Hours	Semester Offered	Semester Year/Taken	Grade Earned	Also Allowed	Pre/Co-requisites
Probability & Statistics	MA 325	3					MA 300
Numerical Analysis	CS 431	3	SP				CS 205 and MA 301
Language & Compilers	CS 441	3	SP				CS 350
Elective		3					
Computer Seminar	CS 492	1	SP				Must be a Senior and a Computer Science Major
Total Hours		13					

Spring MA Electives: MA 302, MA 303, MA 305, MA 318 and MA 402

Substitutions						
Required Course Number		Substituted Course Number		Grade		Semester
Required Course Number		Substituted Course Number		Grade		Semester
Required Course Number		Substituted Course Number		Grade		Semester

Other Courses

Course Number	Semester	Grade	Course Number	Semester	Grade	Course Number	Semester	Grade