

Northwest Missouri State University School of Computer Science and Information Systems – Mobile Computing Emphasis Bachelor of Science

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-101	Foundations of Computing		3	
		2 units of high school algebra and either CSIS 44101 OR CSIS		
		44130 with a grade of C or		
		better, or School director's		
44-141	Computer Programming I	permission	3	
29-102	Fund. of Oral Communication		4	
10-111	Composition I		3	
77-101	University Seminar		1	
		Total Hours	14	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
10-112	Composition II	ENGL 10111	3	
		An ACT Math score of 22 or		
		higher, or a score of PASS on		
		the NW Algebra Review, or a		
		minimum grade of C in MATH 17082, or concurrent		
17-118	Pre-calculus Algebra (Option B)*	enrollment in MATH 17018	3	
	l l l l l l l l l l l l l l l l l l l	CSIS 44141 with a grade of C		1
44-241	Computer Programming II	or better	3	
	Life Sciences & Lab		4	
	Fine Arts		3	
		Total Hours	16	
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Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
		CSIS 44130 or CSIS 44101 with		
Term 3 44-356	Network Fundamentals	CSIS 44130 or CSIS 44101 with a grade of C or better	Cr Hrs	2
		CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114		
		CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH		2
		CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or		2
44-356	Network Fundamentals	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH	3	2
		CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor		2
44-356	Network Fundamentals Data Structures	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS	3	2
44-356	Network Fundamentals	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141	3	2
44-356	Network Fundamentals Data Structures	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or	3	2
44-356	Network Fundamentals Data Structures	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of	3	2
44-356	Network Fundamentals Data Structures	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or	3	2
44-356 44-242 44-296	Network Fundamentals Data Structures Professional Development Sem.	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17118 or or MATH 17118 or or MATH 17119 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in	3 3	2
44-356	Data Structures Professional Development Sem. General Stats (Option B)*	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17118 or or MATH 17118 or or MATH 17118 or or or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or	3 3 3	2
44-356 44-242 44-296	Network Fundamentals Data Structures Professional Development Sem.	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17120 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014	3 3 3 4	2
44-356 44-242 44-296	Data Structures Professional Development Sem. General Stats (Option B)* Physical Sciences & Lab **	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17110 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014 Total Hours	3 3 3 4 16	2
44-356 44-242 44-296	Data Structures Professional Development Sem. General Stats (Option B)*	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17118 or MATH 17110 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014 Total Hours Pre-requisite	3 3 3 4	2 2 Milestone/Notes
44-356 44-242 44-296 17-114	Data Structures Professional Development Sem. General Stats (Option B)* Physical Sciences & Lab ** Course Title/Description	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17110 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014 Total Hours Pre-requisite CSIS 44241, with a grade of C	3 3 3 4 16 Cr Hrs	2
44-356 44-242 44-296	Data Structures Professional Development Sem. General Stats (Option B)* Physical Sciences & Lab **	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17110 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014 Total Hours Pre-requisite CSIS 44241, with a grade of C or better	3 3 3 4 16	Milestone/Notes 2
44-356 44-242 44-296 17-114	Data Structures Professional Development Sem. General Stats (Option B)* Physical Sciences & Lab ** Course Title/Description	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17110 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014 Total Hours Pre-requisite CSIS 44241, with a grade of C	3 3 3 4 16 Cr Hrs	Milestone/Notes Spring only
44-356 44-242 44-296 17-114	Data Structures Professional Development Sem. General Stats (Option B)* Physical Sciences & Lab ** Course Title/Description	CSIS 44130 or CSIS 44101 with a grade of C or better CSIS 44241, and MATH 17114 or MATH 17117 or MATH 17118 or MATH 17110 (or concurrent enrollment), all with a grade of C or better, or consent of instructor Sophomore standing and CSIS 44141 An ACT Math score of 22 or higher, high school GPA of 3.00 or higher, or a minimum grade of C in MATH 17082, or concurrent enrollment in MATH 17014 Total Hours Pre-requisite CSIS 44241, with a grade of C or better CSIS 44242, with a grade of C	3 3 3 4 16 Cr Hrs	Milestone/Notes 2

⁼ a milestone course completed by end of year 1 to remain on pace to finish degree requirements in four years.

= a milestone courses taken in final year to complete degree requirements.

 $[\]frac{1}{1}$ = a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

⁼ a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.



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34-102	Intro to American Govt & Politics		3	
		Sophomore standing and a minimum grade of C in CSIS 44141 and any of the		2
44.240	Duilding Display of The quetical CC	following: MATH 17117 or	2	
44-249	Building Blocks of Theoretical CS	MATH 17118 or MATH 17120	3	
	Humanities	Total Hours	1 5	
		Total Hours	15	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
	Civics - History	·	3	,
47.246	Linear Stat Model I (Option B)*	A minimum grade of C in MATH 17114 or consent of	3	
17-316	Linear Stat Woder (Option b)	instructor CSIS 44242, with a grade of C	<u> </u>	3
44-443	Mobile Computing-iOS	or better	3	3
	Approved CS/IS Elective(300+ Level)		3	
	Social & Behavioral Sciences		3	
		Total Hours	15	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
10-220	Intro to Literature	CSIS 44242 and CSIS	3	Caring only
44-349	Survey of Algorithms	44249 each with a grade of C or better	3	Spring only
44-444	Mobile Computing-Android	CSIS 44242 with a grade of C or better	3	3
		CSIS 44443 OR CSIS 44444 with a minimum grade of a C		Spring only, Even Years***
44-451	Adv. Topics in Mobile Computing		3	
	Humanities		3	
		Total Hours	15	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-550	Operating Systems	CSIS 44345, with a grade of C or better	3	Fall only
		CSIS 44242 and CSIS 44249, with grades of C or better, or		Fall only
44-525	Theo & Imp Program Lang	consent of instructor Prerequisites: CSIS 44242 and CSIS 44460 with a grade of C	3	Fall only
44-561	Software Engineering Principles	or better	3	
	Approved CS/IS Elective (300+ Level)		3	
	Electives		3	
		Total Hours	15	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes

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- = a milestone courses taken in final year to complete degree requirements.

 $[\]frac{1}{1}$ = a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

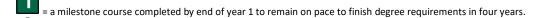


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44-451	Approved CS/IS Elective(300+ Level)***		3	
		CSIS 44561 with a grade of C		Spring only
44-562	Software Engineering II	or better	3	
	Social & Behavioral Sciences		3	
	Electives		5	
Total Hours			14	

^{*}Schedule shows Math Option B. Students may elect for Math Option A instead. If Math Option A is chosen, then make the following substitutions:

- Spring year 1-replace 17-118 Pre-calculus Algebra with 17-117 Pre-calculus (4hours)
- Fall year 2-replace 17-114 General Statistics with 17-120 Calculus (4 hours)
- Fall year 3-replace 17-316 Linear Stat Model I with 17-114 General Statistics





= a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

\(\) = a milestone courses taken in final year to complete degree requirements.

^{**}Taking Fundamentals of Classical Physics I & Lab (5 hours) will reduce elective hours by 1.

^{***}Swap Advanced topics in Mobile computing with the CS-Elective in Term 8 depending which year Adv Mobile computing is offered.