

## Curriculum Map Computer Science, Bachelor of Science Computer & Networking Security

If you are required to complete any college readiness courses, you may not be able to complete the degree in four years. This curriculum map assumes that you have not transferred in any previously completed college level courses. This is an **unofficial** document; the student's program evaluation is the official document for viewing the requirements needed to complete the chosen bachelor's degree. Please consult with your advisor for registering for classes.

All students must have 36 hours of general education courses. The approved course list is located in the MSU Catalog, <http://www.moreheadstate.edu/catalog>.

If an "f" or "s" is listed beside the course, this indicates the class is normally offered only in the fall semester (f) or spring semester (s).

FIRST YEAR COURSE SCHEDULE								
✓	Course	Fall Semester	Credits		✓	Course	Spring Semester	Credits
	FYS 101	First Year Seminar	3			ENG 200	Writing II	3
	MATH 175	Calculus I	4			COMS 108	Fund. Of Speech Communication	3
	ENG 100	Writing I	3			General Education	HUM II	3
	General Education	HUM I	3			MATH 275	Calculus II	4
	CS 170/170L	Introduction to Computer Science	4			CIS 205	Introduction to Programming C++	3
<b>Total Credit Hours</b>			<b>17</b>		<b>Total Credit Hours</b>			<b>16</b>

SECOND YEAR COURSE SCHEDULE								
✓	Course	Fall Semester	Credits		✓	Course	Spring Semester	Credits
	General Education	NSC I	3			General Education	NSC II	3
	PHYS 201/201A	Elementary Physics I/Lab	4			General Education	SBS I	3
	CS 303	Data Structures	3			PHYS 202/202A	Elementary Physics II/Lab	4
	EEC 345/345L (f)	Microprocessor Electronics	3			CS 310	Algorithms & Advanced Data Structures	3
	PHIL 103	Beginning Ethics	3			CS 420 (s)	Data Mining Concepts	3
<b>Total Credit Hours</b>			<b>16</b>		<b>Total Credit Hours</b>			<b>16</b>

THIRD YEAR COURSE SCHEDULE								
✓	Course	Fall Semester	Credits		✓	Course	Spring Semester	Credits
	General Education	SBS II	3			CS 360 (s)	Operating Systems	3
	MATH 308 (f)	Discrete Mathematics	3			MATH 320	Codes & Cryptography	3
	CIS 340 (f)	Data Networking Systems	3			CIS 322 (s)	Systems Security & Information Assurance	3
	Free Elective	Recommended: CIS 326 (f)	3			Free Elective	Choose any course where you meet the prerequisite/s	3
	Free Elective	Recommended: MATH 301	3					
<b>Total Credit Hours</b>			<b>15</b>		<b>Total Credit Hours</b>			<b>12</b>

FOURTH YEAR COURSE SCHEDULE								
✓	Course	Fall Semester	Credits		✓	Course	Spring Semester	Credits
	CS 499C	Capstone & Senior Thesis I	2			CS 499D	Capstone & Senior Thesis II	1
	MATH 365 (f)	Intro. to Mathematical Statistics	3			CIS 426 (s)	Data Administration	3
	CS 380 (f)	Software Engineering	3			CS 480	Computer Security	3
	CS 335 (f)	Theory of Programming Language	3			Free Elective	Choose any course where you meet the prerequisite/s	3
	CS 485 (f)	Network Security	3			Free Elective	Choose any course where you meet the prerequisite/s	3
						Free Elective	Choose any course where you meet the prerequisite/s	1
<b>Total Credit Hours</b>			<b>14</b>		<b>Total Credit Hours</b>			<b>14</b>