

























COMPUTER AND INFORMATION SECURITY, B.S.




 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at <https://www.marshall.edu/gened/>.

Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
BSC 120 	Principles of Biology (w/ Lab)	4
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	Writing Intensive (ENG 354 recommended)	3
	Writing Intensive	3
	Multicultural or International	3
CYBR 490 	Senior Project	3
Major-Specific		
MTH 220  	Discrete Structures	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
STA 225 	Introductory Statistics (CT)	3
BSC 120 	Principles of Biology	4
CHM 211 	Principles of Chemistry I	3
CHM 217 	Principles of Chem Lab I	2
PHY 201 	College Physics I	3
PHY 202 	General Physics I Laboratory	1
ENG 354	Scientific & Tech Writing	3
CS 105 	Expl World with Computing (CT)	3
CS 110 	Computer Science I	3
CS 120 	Computer Science II	3
CS 210 	Data Structures and Algorithms	3
CS 215	Adv Data Struct and Algorithms	3

CS 305	Software Engineering	3
CS 320 	Internetworking	3
CS 330	Operating Systems	3
CS 402	Computer Architecture	3
CS 410	Database Engineering	3
CYBR 210 	Comp and Info Sec Principle	3
CYBR 240	Information Security Policies	3
CYBR 310	Introduction to Cryptography	3
CYBR 330	Cyber Security	3
CYBR 350	Cyber System Administration	3
CYBR 360	Cyber Infrastructure Security	3
CYBR 400	Compter Security Design	3
CYBR 435	Cyber Risk	3
CYBR 442	Cyber Operations	3
CYBR 475	Internship	3
CYBR 490 	Senior Project (C)	3
	Free Elective	3
	Free Elective	3
	Free Elective	2

Major Information

- Other science with lab courses may replace the courses listed above with the approval of the program chair.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "free elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.