

CYBERSECURITY B.S. - INFORMATION SYSTEMS & TECHNOLOGY

Bachelor of Science - Cybersecurity; Information Systems & Technology Concentration

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.edu/academics/general-education-requirements/>) of the catalog.

Summary

Code	Title	Hours
	Primary Lower Core	15-17
	Technical Lower Core	21
	Upper Core	15
	Cybersecurity Requirements	18
	Total Hours	69-71

Degree Specific Credits: 69-71

Required Cumulative GPA: 2.0

Notes:

- At least 54 credits must be earned in Business classes (ECNS, COB internship courses and College of Business faculty-led study abroad course may be counted in OR out of Business). A minimum GPA of 2.0 is required for these courses.
- At least 27 credits in business AND BMIS 476 must be taken at UM.
- All business credits transferred in after matriculating to UM must be pre-approved by the department chair in your major.

Primary Lower Core

Notes:

- Unless a higher requirement is specified, all primary lower core courses must be completed with a C- or better and a 2.0 GPA in the listed courses prior to admission into the upper-division Cybersecurity major.
- The College of Business requires that credit be earned for STAT 216 (preferred) or one of the other statistics courses listed below with a C- or better prior to being admitted into the upper-division Cybersecurity major.

Code	Title	Hours
Complete all of the following courses:		
BGEN 105S	Introduction to Business	3
COMX 111A	Introduction to Public Speaking	3
CSCI 215E	Social & Ethical Issues in CS	3
Complete one of the following courses:		
		3-4

M 115	Probability and Linear Mathematics	
M 121	College Algebra	
M 151	Precalculus	
M 162	Applied Calculus	
Complete one of the following courses:		3-4
FORS 201	Forest Biometrics	
PSYX 222	Psychological Statistics	
SOCI 202	Social Statistics	
STAT 216	Introduction to Statistics	
Total Hours		15-17

Minimum Required Grade: C-

Technical Lower Core

Note: Students are advised to complete the technical lower core in their freshman and sophomore years.

Code	Title	Hours
Complete all of the following courses:		
ACTG 201	Principles of Financial Accounting	3
BGEN 222	Business Models and Operations	3
BMIS 270	MIS Foundations for Business	3
ITS 150	CCNA 1: Exploration	3
ITS 212	Network OS - Server Administration	3
ITS 222	Enterprise Security	3
Complete one of the following courses:		3
ITS 152	CCNA 2: Exploration	
ITS 165	Introduction to Operating Systems and the Command Line	
ITS 214	Network OS - Infrastructure	
ITS 250	CCNA 3: Exploration	
ITS 279	Cloud Systems	
ITS 280	Computer Repair & Maintenance	
MART 220	Creative Coding II	
SOCI 221	Criminal Justice System	
Total Hours		21

Minimum Required Grade: C-

Upper Core

Note: All upper major core courses must be completed before the capstone can be taken. A student must be listed as a major in Cybersecurity to take these courses. This is defined as junior standing with all primary lower core courses completed, a 2.0 cumulative GPA, and formal admission to the major.

Code	Title	Hours
Complete all of the following courses:		
BGEN 341	People, Process and Technology I	3
BGEN 342	People, Process and Technology II	3
BGEN 361	Principles of Business Law	3
BMIS 326	Introduction to Data Analytics	3

BMIS 472	Advanced Network & Security Management	3
Total Hours		15

Minimum Required Grade: C-

Cybersecurity Requirements

Code	Title	Hours
Complete all of the following courses:		
ACTG 321	Accounting Information Systems I	3
BMIS 494	Seminar (Cyber-operation)	3
BMIS 365	Business App Development	3
BMIS 373	Business System Analysis & Design	3
BMIS 476	Integrated Project Management for IS	3
or BMIS 482	Big Data Project	
Complete one of the following courses:		3
BMIS 370	Managing Information and Data	
BMIS 372	Information Infrastructures	
BMIS 471	Fundamentals of Network & Security Management	
BMIS 479	Introduction to Consulting	
BMIS 498	Internship	
CSCI 340	Database Design	
MART 441	Web Technologies	
Total Hours		18

Minimum Required Grade: C-