

UW-Whitewater B.S. in Cybersecurity General Emphasis Requirements

General Education Requirements		43-49 credits
Unique Requirements		9 credits
COMPSCI 172/174	Introductory Programming	3 credits
COMPSI 215 / MATH 280	Discrete Structures/ Discrete Mathematics	3 credits
ENGLISH 370/371/372	Technical Writing	3 credits
Major Requirements		39 Credits
<i>Required Courses (33 credits):</i>		
CYBER 101	Introduction to Cybersecurity	3 credits
COMPSCI 222	Intermediate Programming with C++	3 credits
COMPSCI 271	Computer Organization and Assembly Programming	3 credits
COMPSCI 460	Computer Networking	3 credits
ITSCM 331 / COMPSCI 481	System Administration / Web Server and Unix Administration	3 credits
COMPSCI 353	Cybersecurity Law and Policy	3 credits
COMPSCI 354	Intrusion Detection and Incident Response	3 credits
COMPSCI 455	Cryptography and Network Security	3 credits
COMPSCI 456	Computer System Security	3 credits
ITSCM 452	Information Assurance and Security	3 credits
CYBER 459	Systems Security Engineering	3 credits
<i>Elective Courses (6 credits):</i>		
CYBER 358	Security Operations in the Cloud	3 credits
COMPSCI 223	Data Structures	3 credits
COMPSCI 332	Introduction to Artificial Intelligence	3 credits
COMPSCI 342	Digital Forensics	3 credits
COMPSCI 366	Database Management Systems	3 credits
COMPSCI 424	Operating Systems	3 credits
COMPSCI 433	Theory of Algorithms	3 credits
COMPSCI 441	Web Security	3 credits
COMPSCI 452	Malware Analysis	3 credits
COMPSCI 461	Mobile Computing Architecture	3 credits
ITSCM 332	Network Administration	3 credits
ITSCM 385	Agile Project Management	3 credits
ITSCM 444	IT Security Analytics	3 credits
Minor Requirements		24 credits
Elective Credits		0-5 credits
Total Credits		120 credits

UW-Whitewater B.S in Cybersecurity Cyber Operations Emphasis Requirements

General Education Requirements		43-49 credits
Unique Requirements		9 credits
COMPSCI 172/174	Introductory Programming	3 credits
COMPSCI 215 / MATH 280	Discrete Structures/ Discrete Mathematics	3 credits
ENGLISH 370/371/372	Technical Writing	3 credits
Major Requirements		54 Credits
<i>Required Courses (30 credits):</i>		
CYBER 101	Introduction to Cybersecurity	3 credits
COMPSCI 220/222	Intermediate Programming	3 credits
COMPSCI 271	Computer Organization and Assembly Programming	3 credits
ITSCM 331 / COMPSCI 481	System Administration / Web Server and Unix Administration	3 credits
ITSCM 332 / COMPSCI 460	Network Administration / Computer Networking	3 credits
COMPSCI 353	Cybersecurity Law and Policy	3 credits
COMPSCI 354	Intrusion Detection and Incident Response	3 credits
COMPSCI 455	Cryptography and Network Security	3 credits
ITSCM 452	Information Assurance and Security	3 credits
CYBER 459	Systems Security Engineering	3 credits
<i>Elective Courses (6 credits):</i>		
COMPSCI 456	Computer System Security	3 credits
CYBER 358	Security Operations in the Cloud	3 credits
COMPSCI 223	Data Structures	3 credits
COMPSCI 332	Introduction to Artificial Intelligence	3 credits
COMPSCI 342	Digital Forensics	3 credits
COMPSCI 366	Database Management Systems	3 credits
COMPSCI 424	Operating Systems	3 credits
COMPSCI 433	Theory of Algorithms	3 credits
COMPSCI 441	Web Security	3 credits
COMPSCI 452	Malware Analysis	3 credits
COMPSCI 461	Mobile Computing Architecture	3 credits
ITSCM 332	Network Administration	3 credits
ITSCM 385	Agile Project Management	3 credits
ITSCM 444	IT Security Analytics	3 credits
<i>Applied Technical Skills (18 credits):</i>		
Approved information technology courses transferred under an articulation agreement with a technical college.		
Elective Credits		8-14 credits
Total Credits		120 credits

UW-Whitewater B.S. in Cybersecurity Comprehensive Emphasis Requirements

General Education Requirements		41-49 credits
Unique requirements		17 credits
COMPSCI 172/174	Introductory Programming	3 credits
COMPSI 215 / MATH 280	Discrete Structures/ Discrete Mathematics	3 credits
MATH 250/253	Applied Calculus Survey for Business and Social Science / Calculus and Analytic Geometry I	5 credits
STAT 342	Applied Statistics	3 credits
ENGLISH 370/371/372	Technical Writing	3 credits
Major requirements		57 credits
<i>Required Courses (45 credits):</i>		
CYBER 101	Introduction to Cybersecurity	3 credits
COMPSCI 222	Intermediate Programming with C++	3 credits
COMPSCI 223	Data Structures	3 credits
COMPSCI 271	Computer Organization and Assembly Programming	3 credits
COMPSCI 460	Computer Networking	3 credits
ITSCM 331	System Administration	3 credits
ITSCM 332	Network Administration	3 credits
COMPSCI 342	Digital Forensics	3 credits
COMPSCI 353	Cybersecurity Law and Policy	3 credits
COMPSCI 354	Intrusion Detection and Incident Response	3 credits
COMPSCI 424	Operating Systems	3 credits
COMPSCI 455	Cryptography and Network Security	3 credits
COMPSCI 456	Computer System Security	3 credits
ITSCM 452	Information Assurance and Security	3 credits
CYBER 459	Systems Security Engineering	3 credits
<i>Elective Courses (12 credits):</i>		
CYBER 358	Security Operations in the Cloud	3 credits
COMPSCI 332	Introduction to Artificial Intelligence	3 credits
COMPSCI 366	Database Management Systems	3 credits
COMPSCI 381	Javascript and DHTML	3 credits
COMPSCI 382	Server-Side Scripting	3 credits
COMPSCI 433	Theory of Algorithms	3 credits
COMPSCI 441	Web Security	3 credits
COMPSCI 452	Malware Analysis	3 credits
COMPSCI 461	Mobile Computing Architecture	3 credits
COMPSCI 481	Web Server and Unix Administration	3 credits
ITSCM 314	Database Design and Administration	3 credits
ITSCM 385	Agile Project Management	3 credits
ITSCM 444	IT Security Analytics	3 credits
Elective Credits		0-5 credits
Total Credits		120 credits