BACHELOR OF SCIENCE IN APPLIED CYBERSECURITY AND INFORMATION TECHNOLOGY

Required Courses

Code	Title	Credit Hours
Information Technology Core Requirements		**(36)**
ITM 301	Introduction to Contemporary Operating Systems and Hardware I	3
ITM 303	Introduction to Contemporary Operating Systems and Hardware II	3
ITM 311	Introduction to Software Development	3
ITM 313	Introduction to Open Source Application Development	3
or ITM 312	Introduction to Systems Software Programming	
ITMD 321	Data Modeling and Applications	3
ITMD 361	Fundamentals of Web Development	3
ITMD 362	Human-Computer Interaction and Web Design	3
ITMD 411	Intermediate Software Development	3
ITMM 471	Project Management for Information Technology and Management	3
ITMO 340	Introduction to Data Networks and the Internet	3
ITMO 356	Introduction to Open Source Operating Systems	3
ITMT 330	Introduction to Information Systems and the IT Profession	3
Cybersecurity Core Requirements		**(27)**
ITMM 485	Legal and Ethical Issues in Information Technology	3
ITMS 418	Coding Security	3
ITMS 438	Cyber Forensics	3
ITMS 443	Vulnerability Analysis and Control	3
ITMS 448	Cyber Security Technologies	3
ITMS 458	Operating System Security	3
ITMS 478	Cyber Security Management	3
ITMS 483	Digital Evidence	3
ITMT 430	System Integration	3
Cybersecurity and Information Technology Electives		**(6)**
Select six credit hours from ITM, ITMD, ITMM, ITMO, ITMS, ITMT, or TECH courses		6
Mathematics Requirements		**(20)**
MATH 151	Calculus I	5
MATH 152	Calculus II	5
MATH 230	Introduction to Discrete Math	3
MATH 251	Multivariate and Vector Calculus	4
MATH 474	Probability and Statistics	3
Natural Science and Engineering Requirements		**(10)**
EG 225 and PHYS 200 are recommended		
See Illinois Tech Core Curriculum, section D		10
Humanities and Social Sciences Requirements		**(21)**
PSYC 301 is recommended		
See Illinois Tech Core Curriculum, sections B and C		21
Interprofessional Projects (IPRO)		**(6)**
See Illinois Tech Core Curriculum, section E		6
Free Electives		**(3)**
Select three credit hours		3
Total Credit Hours		**129**

Bachelor of Science in Applied Cybersecurity and Information Technology

			Year 1
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
ITM 301	3	ITM 303	3
ITM 311	3	ITM 313	3
MATH 151	5	MATH 152	5
Humanities 200-level Elective	3	Social Sciences Elective	3
		Natural Science or Engineering Elective	3
	14		**17**

			Year 2
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
ITMD 361	3	ITMD 362	3
ITMD 411	3	ITMO 356	3
ITMT 330	3	ITMO 340	3
MATH 251	4	ITMS 478	3
Natural Science or Engineering Elective	4	MATH 230	3
		Natural Science or Engineering Elective	3
	17		**18**

			Year 3
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
ITMD 321	3	ITMS 418	3
ITMM 471	3	ITMS 438	3
ITMS 443	3	ITMM 485	3
ITMS 448	3	MATH 474	3
Humanities Elective (300+)	3	IPRO Elective I	3
Social Sciences Elective (300+)	3		
	18		**15**

			Year 4
Semester 1	**Credit Hours**	**Semester 2**	**Credit Hours**
ITMS 483	3	ITMT 430	3
ITMS 458	3	Cybersecurity Elective	3
Cybersecurity Elective	3	IPRO Elective II	3
Humanities Elective (300+)	3	Social Sciences Elective (300+)	3
Free Elective	3	Humanities or Social Sciences Elective	3
	15		**15**

Total Credit Hours: 129