

# BACHELOR OF SCIENCE IN APPLIED CYBERSECURITY AND INFORMATION TECHNOLOGY

## Required Courses

Code	Title	Credit Hours
<b>Information Technology Core Requirements</b>		(33)
ITM 100	Intro to IT as a Profession	3
ITM 301	Intro OS and Hardware I	3
ITM 311	Intro to Software Development	3
ITM 313	Intro to Open Source App Dev	3
or ITM 312	Intro Systems Sftwr Prgmng	
ITMD 361	Fund of Web Development	3
ITMD 362	Human-Computer Interaction	3
ITMD 411	Intermediate Software Devlpmnt	3
ITMD 421		3
ITMM 471	Project Management for ITM	3
ITMO 440		3
ITMO 456		3
<b>Cybersecurity Core Requirements</b>		(27)
ITMM 485	Legal and Ethical Issues in IT	3
ITMS 418	Coding Security	3
ITMS 438	Cyber Forensics	3
ITMS 443	Vulnerability Analys and Ctrl	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
<b>Cybersecurity and Information Technology Electives</b>		(6)
Select six credit hours from ITM, ITMD, ITMM, ITMO, ITMS, ITMT, or TECH courses		6
<b>Mathematics Requirements</b>		(20)
MATH 151	Calculus I	5
MATH 152	Calculus II	5
MATH 230	Introduction to Discrete Math	3
MATH 251	Multivariate & Vector Calculus	4
MATH 474	Probability and Statistics	3
<b>Natural Science and Engineering Requirements</b>		(10)
EG 225 and PHYS 200 are recommended		
See Illinois Tech Core Curriculum, section D		10
<b>Humanities and Social Sciences Requirements</b>		(21)
PSYC 301 is recommended		
See Illinois Tech Core Curriculum, sections B and C		21
<b>Interprofessional Projects (IPRO)</b>		(6)
See Illinois Tech Core Curriculum, section E		6
<b>Free Electives</b>		(6)
Select six credit hours		6
<b>Total Credit Hours</b>		<b>129</b>

## Bachelor of Science in Applied Cybersecurity and Information Technology

		Year 1	
Semester 1	Credit Hours	Semester 2	Credit Hours
ITM 301	3	ITM 311	3
ITMD 421	3	ITMO 440	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
ITM 100	3	ITMD 362	3
ITM 313 or 312	3	ITMD 411	3
ITMD 361	3	ITMO 456	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
ITMM 471	3	ITMS 438	3
ITMS 418	3	ITMS 443	3
ITMS 448	3	ITMS 458	3
Humanities Elective (300+)	3	MATH 474	3
Social Sciences Elective (300+)	3	I PRO Elective I	3
Free Elective	3		
18		15	
		Year 4	
Semester 1	Credit Hours	Semester 2	Credit Hours
ITMM 485	3	ITMT 430	3
ITMS 483	3	Cybersecurity Elective	3
Cybersecurity Elective	3	I PRO 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