



## BACHELOR OF INNOVATION in COMPUTER SECURITY SAMPLE PROGRAM

The following document is intended for student use only. It represents the suggested order and semesters in which students should take courses to graduate within 4 years. Since each student is different this listing should only be considered a guide. Please refer to your Degree Audit Report for elective options. The BI Computer Security program requires a minimum of 128 credit hours to complete. Students must have a minimum 2.0 GPA in all CS course work taken, and a minimum 2.0 GPA in all cumulative course work.

Courses marked with an \* are often available in the summer. Courses marked with \*\* are ONLY offered in that semester. Please note that CS students may want to offload some of the heavier semesters making up the hours by taking courses during the summer semester and still graduate in 4 years.

### FRESHMAN YEAR

FALL SEMESTER (16 credit hours)	SPRING SEMESTER (15 credit hours)
*CS 1150 Principles of Computer Science – 3 *ENGL 1310 Rhetoric & Writing I – 3 ENTP 1000 Intro. to Entrepreneurship – 3 *MATH 1350 Calculus I – 4 ID 1010 BI Freshman Seminar approved by program <u>OR</u> Innovation Elective approved by faculty advisor – 3	*CS 1450 Data Structures & Algorithms – 3 *CS 2060 Programming with C – 3 INOV 1010 The Innovation Process – 3 *MATH 2150 Discrete Mathematics – 3 Cross Discipline Core Course – 3

### SOPHOMORE YEAR

FALL SEMESTER (16 credit hours)	SPRING SEMESTER (17 credit hours)
CS 2080 Programming with UNIX – 2 CS 2160 Computer Org. & Assembly Lang Prog. – 3 **CS 1300 Computational Linear Algebra – 3 **BLAW 2010 Business and Intellectual Property Law – 3 Basic Science (PES,CHEM, BIOL) with lab – 5	CS 3060 Object-Oriented Programming using C++ – 3 <u>OR</u> CS 3020 Adv Object Tech Using C#/.NET – 3 **CS 3910 System Admin. and Security – 3 INOV 2010 Innovation Team: Report & Analyze – 3 INOV 2100 Tech. Writing, Proposals, & Presentation – 3 Basic Science (PES,CHEM, BIOL) with Lab – 5

### JUNIOR YEAR

FALL SEMESTER (15 credit hours)	SPRING SEMESTER (18 credit hours)
PAD 3400 Public Admin. and Homeland Security – 3 INOV 3010 Innovation Team: Research & Execute – 3 Cross Discipline Core Course – 3 *Upper Division Open Elective (3000+) – 3 *Open Elective – 3	**CS 3300 Software Engineering – 3 **CS 4200 Computer Architecture I – 3 **CS 4220 Computer Networks – 3 **ECE 3610 Engineering Probability & Stats <u>OR</u> *QUAN 2010 Business Statistics – 3 Cross Discipline Core Course – 3 Cross Discipline Core Course – 3

### SENIOR YEAR

FALL SEMESTER (15 credit hours)	SPRING SEMESTER (16 credit hours)
**CS 4500 Operating Systems I – 3 **CS 4910 Fundamental of Computer/Network Security – 3 INOV 4010 Innovation Team: Design & Lead – 3 Cross Discipline Core Course – 3 *Open Elective – 3	**CS 4920 Applied Cryptography – 3 **CS 3050 Social & Ethical Implications of Computing – 1 PAD 4400 Understanding Terrorism – 3 **ENTP 4500 Entrepreneurship and Strategy – 3 Computer Security Elective Course – 3 Computer Security Elective Course – 3

## CROSS DISCIPLINE CORES – CHOOSE ONE

### BUSINESS

COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
ECON 1010 Intro to Microeconomics	3	
ACCT 2010 Intro to Financial Accounting	3	Sophomore or higher standing
MGMT 3300 Introduction to Management & Organization	3	
<b>Choose two from:</b>	<b>6</b>	
OPTM 3000 Fundamentals of Operations Management		Permission number needed
MKTG 3000 Principles of Marketing		Permission number needed
FNCE 3050 Basic Finance		Permission number needed
<b>TOTAL</b>	<b>15</b>	

### CREATIVE COMMUNICATION

COURSE NUMBER & TITLE	HRS	COURSE NUMBER & TITLE	HRS
COMM 3440 Leadership Communication	3		
Choose one MUS course	3		
<b>Choose one from:</b>	<b>3</b>	<b>Choose two from:</b>	<b>6</b>
VA 1010 Beginning Studio 2D		MGMT 3900 Improving Personal and Team Creativity	
VA 1020 Beginning Studio 3D		COMM 1020 Interpersonal Communication	
VA 1040 Beginning Drawing		COMM 2010 Oral Communication in the Workplace	
VA 2060 Two-Dimensional Topics		COMM 2250 Introduction to Film and Video	
VA 2070 Three-Dimensional Topics		COMM 3100 Directing for Film and Television	
VA 2100 Digital Imaging		COMM 3280 Intercultural Communication	
VA 2110 Introduction to Photography		COMM 4220 Creative Communication	
VA 2150 Digital Photography		ENGL 2050 Introduction to Creative Writing – Fiction	
<b>Total</b>	<b>15</b>		

### GLOBALIZATION

COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES	HRS
<b>Foreign Language</b>			<b>6</b>
Passing 2 semesters of the same foreign language, at a level appropriate to the student, fulfills this requirement. 4 years of a foreign language in HS fulfills this requirement. Demonstrating proficiency to the advisor fulfills the req. If the requirement is fulfilled in less than 6 credit hours, the remaining credit hours must be taken from the list below.			
<b>Choose three courses from:</b>			<b>9</b>
ANTH 1040 Intro to Cultural Anthropology		INTB 4800 International Management	
ANTH 3040 Women Around the World		MKTG 4900 International Marketing	
COMM 3280 Intercultural Communication		PHIL 3090 Philosophies of Asia	
ECON 3590 Globalization		PHIL 3100 Religions Around the World	
ECON 3710 Comparative Economic Systems		PSC 1010 Introduction to Global Politics	
FNCE 4400 International Financial Management		PSC 4210 International Politics	
GES 1980 World Regional Geography		PSC 4590 Globalization	
GES 1990 Intro to Human Geography		SOC 4380 Globalization and Development	
GES 3400 Geopolitics		WEST 3040 Women Around the World	
INTB 3600 International Business		WEST 3480 Global Women's Issues	
<b>Total</b>			<b>15</b>