

## Cybersecurity Major (56 credit hours)

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The Cybersecurity program is designed for students who seek to defend against cyberthreats in the realms of industry and public service. Cybersecurity majors seek to be the "good guys", similar to firefighters or policemen, defending individuals, customers, and the public against today's ever present cyberattacks. Courses acquaint students with information assurance, server and network environments, cryptography, cyber-related public policy, and cyberwarfare. Majors in Cybersecurity typically pursue careers in industry for a wide variety of companies, in a security operations center, or in local, state, or federal government service.

### Major Requirements:

#### Foundation Courses (27 credit hours):

- CPSC 2080, Introduction to Cybersecurity, 3 credit hours
- CPSC 2180, Scripting and Systems, 3 credit hours
- CPSC 2300, System Administration, 3 credit hours
- MATH 2120, Introductory Statistics with Applications, 4 credit hours<sup>1</sup>
- MATH 2200/CPSC 2250, Discrete Mathematical Structures, 4 credit hours
- POSC 2030, Introduction to National Security Studies, 3 credit hours
- POSC 2200, Public Policy, 3 credit hours
- POSC 2400, Political Science Research Methods, 3 credit hours<sup>2</sup>
- POSC 2420, Applied Statistics Lab, 1 credit hour

#### National Security Policy courses (6 hours):

- POSC/CRIM 3350, Homeland Security, 3 credit hours
- POSC 3370, Intelligence and Security Studies, 3 credit hours<sup>4</sup>

#### Ethics Course (3 hours):

- PHIL/RLGN 3250, Ethics and Morality for Professionals, 3 credit hours<sup>5</sup>

#### Professional Core (11 hours):

- CPSC 3380, Applied Cryptography and Security, 4 credit hours
- CPSC 3410, Computer Networks, 4 credit hours
- CPSC 4080, Network Security, 3 credit hours
- CPSC 4480, Cybersecurity Certification, 1 credit hour<sup>3</sup>

#### Electives (8-9 hours) chosen from:

- CPSC 2000 and above
- CRIM 2520, Introduction to Criminal Justice, 3 credit hours
- POSC 3310, Political Violence & Terrorism, 3 credit hours
- POSC 3250, Constitutional Law, 3 credit hours

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<sup>1</sup> This course fulfills the Quantitative Reasoning requirement in the Liberal Arts Program.

<sup>2</sup> This course fulfills the Writing Intensive requirement in the Liberal Arts Program.

<sup>3</sup> This course fulfills the Experiential Learning requirement in the Liberal Arts Program.

<sup>4</sup> This course fulfills the Speaking Intensive requirement in the Liberal Arts Program.

<sup>5</sup> This course fulfills the Christian Ways of Knowing requirement in the Liberal Arts Program.

**NOTE:** All students must complete 120 total credit hours to graduate from Anderson University.

Proposed 4 year course sequence:

- Freshman: CPSC 2080, POSC 2030; CPSC 2180, MATH 2120, POSC 2420
- Sophomore: CPSC 2300, POSC 2400; MATH 2200, POSC 2200
- Junior: CPSC 3380, CPSC 3410; CPSC 4080, POSC 3350/POSC 3370 (Alternate years)
- Senior: PHIL/RLGN 3250, CPSC 4480, Cybersecurity Elective;  
POSC 3350/POSC 3370 (Alternate years), Cybersecurity Elective, Cybersecurity Elective

Cybersecurity 4 Year Suggested Course Sequence

SEMESTER 1		SEMESTER 2	
CPSC 2080	3 Hours	CPSC 2180	3 Hours
POSC 2030	3 Hours	MATH 2120 (Quant. Reason.)	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	POSC 2420	1 Hour
LART 1050	1 Hour	ENGL 1120	3 Hours
COMM 1000	3 Hours	Scientific Ways of Knowing	4 Hours
Personal Wellness	2 Hours		

15 + 15

SEMESTER 3		SEMESTER 4	
CPSC 2300	3 Hours	MATH 2200/CSPC 2250	4 Hours
POSC 2400 (WI)	3 Hours	POSC 2200	3 Hours
Social/Behavioral Ways of Knowing	3 Hours	Aesthetic Ways of Knowing	3 Hours
BIBL 2000	3 Hours	Additional Class	3 Hours
Civic Ways of Knowing	3 Hours	Additional Class	3 Hours

15 + 16

SEMESTER 5		SEMESTER 6	
CPSC 3380	4 Hours	CPSC 4080	3 Hours
CPSC 3410	4 Hours	POSC 3350/POSC 3370 (SI) (Alt years)	3 Hours
Foreign Language	4 Hours	Global Ways of Knowing + WI	3 Hours
Civil Discourse & C.R.	2-4 Hours	Additional Class	3 Hours
		Additional Class	3 Hours

14 + 15

SEMESTER 7		SEMESTER 8	
PHIL/RLGN 3250 (Christian WoK)	3 Hours	POSC 3350/POSC 3370 (SI) (Alt years)	3 Hours
CPSC 4480 (Exp. Learn.)	1 Hour	Cybersecurity Elective	3 Hours
Cybersecurity Elective	3 Hours	Cybersecurity Elective	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours		

16 + 15

Questions? Please contact the [National Security Studies Program](#).

**NOTE:** All students must complete 120 total credit hours to graduate from Anderson University.

Proposed 3 year Course Sequence:

- Freshman: CPSC 2080, POSC 2030; CPSC 2180, MATH 2120, POSC 2420
- Sophomore: CPSC 2300, CPSC 3410, POSC 2400; MATH 2200, POSC 2200, POSC 3350/POSC 3370 (Alt years)
- Junior: CPSC 3380, PHIL/RLGN 3250, Cybersecurity Elective;  
CPSC 4080, CPSC 4480, POSC 3350/POSC 3370 (Alt years), Cybersecurity Elective,  
Cybersecurity Elective

Cybersecurity Major 3 Year Suggested Course Sequence

SEMESTER 1		SEMESTER 2	
CPSC 2080	3 Hours	CPSC 2180	3 Hours
POSC 2030	3 Hours	MATH 2120 (Quant. Reason.)	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	POSC 2420	1 Hour
LART 1050	1 Hour	ENGL 1120	3 Hours
COMM 1000	3 Hours	Scientific Ways of Knowing	4 Hours
Additional Class	3 Hours	Additional Class	3 Hours

16 + 18

SUMMER 1	
Additional Classes	9 Hours

9

SEMESTER 3		SEMESTER 4	
CPSC 2300	3 Hours	MATH 2200/CPSC 2250	4 Hours
POSC 2400 (WI)	3 Hours	POSC 2200	3 Hours
CPSC 3410	4 Hours	POSC 3350/POSC 3370 (SI) (Alt years)	3 Hours
Social/Behavioral Ways of Knowing	3 Hours	Aesthetic Ways of Knowing	3 Hours
BIBL 2000	3 Hours	Global Ways of Knowing + WI	3 Hours
Civil Discourse & C.R.	2-4 Hours	Personal Wellness	2 Hours

18+ 18

SUMMER 2	
Additional Classes	9 Hours

9

SEMESTER 5		SEMESTER 6	
PHIL/RLGN 3250 (Christian WoK)	3 Hours	CPSC 4080	3 Hours
CPSC 3380	4 Hours	CPSC 4480 (Exp. Learn.)	1 Hour
Cybersecurity Elective	3 Hours	POSC 3350/POSC 3370 (SI) (Alt years)	3 Hours
Foreign Language	4 Hours	Cybersecurity Elective	3 Hours
Civic Ways of Knowing	3 Hours	Cybersecurity Elective	3 Hours
		Additional Class	3 Hours

17 + 16

Questions? Please contact the [National Security Studies Program](#).