

Cybersecurity Major (56 credit hours)

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 (30 credit hours):**

- CPSC 2020, Fundamentals of Computational Thinking and Programming, 4 credit hours<sup>1</sup>
- CPSC 2080, Introduction to Cybersecurity, 3 credit hours
- CPSC 2180, Scripting and Systems, 2 credit hours
- CPSC 2300, System Administration, 3 credit hours
- MATH 2120, Introductory Statistics with Applications, 4 credit hours
- MATH 2200/CPSC 2250, Discrete Mathematical Structures, 4 credit hours
- POSC 2020, Introduction to World Politics, 3 credit hours
- POSC 2200, Public Policy, 3 credit hours
- POSC 2400, Social Science Research Methods, 3 credit hours<sup>2</sup>
- POSC 2420, Applied Statistics Lab, 1 credit hour

**National Security Policy courses (6 credit hours):**

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

**Ethics Course (3 credit hours):**

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

**Professional Core (12 credit 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 (5 credit 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

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

<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.

Proposed 4 year Course Sequence:

Freshman: CPSC 2020, 2300, POSC 2020; CPSC 2080, CPSC 2180, MATH 2200

Sophomore: CPSC 3380, POSC 2400; MATH 2120, POSC 2200, POSC 2420, POSC 3350

Junior: CPSC 3410, PHIL/RLGN 3250; CPSC 4080, POSC 3370

Senior: Cyber Elective; Cyber Elective

Cybersecurity Major: 4 Year Suggested Course Sequence

SEMESTER 1	16	SEMESTER 2	16
CPSC 2020 (Quant. Reasoning)	4 Hours	CPSC 2080	3 Hours
CPSC 2300	3 Hours	CPSC 2180	2 Hours
POSC 2020 (Civil Discourse + C.R.)	3 Hours	MATH 2200/CPSC 2250	4 Hours
ENGL 1110	3 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	Scientific Ways of Knowing	4 Hours
Personal Wellness	2 Hours		

SEMESTER 3	16	SEMESTER 4	14
CPSC 3380	4 Hours	POSC 2200	3 Hours
POSC 2400 (WI)	3 Hours	POSC 3350	3 Hours
COMM 1000	3 Hours	MATH 2120	4 Hours
BIBL 2000	3 Hours	POSC 2420	1 Hour
Civic Ways of Knowing	3 Hours	Social/Behavioral Ways of Knowing	3 Hours

SEMESTER 5	15	SEMESTER 6	15
CPSC 3410	4 Hours	CPSC 4080	3 Hours
PHIL/RLGN 3250 (Christian Wok)	3 Hours	POSC 3370 (SI)	3 Hours
CPSC 4480	1 Hour	Global/Intercultural Ways of Knowing	3 Hours
Language	4 Hours	Additional Class	3 Hours
Aesthetic Ways of Knowing	3 Hours	Additional Class (WI)	3 Hours

SEMESTER 7	15	SEMESTER 8	15
Cyber Elective	3 Hours	Cyber Elective	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours

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

Proposed 3 year Course Sequence:

Freshman: CPSC 2020, 2300, POSC 2020; CPSC 2080, CPSC 2180, MATH 2200

Sophomore: CPSC 3380, POSC 2400; POSC 2200, POSC 2420, POSC 3350, MATH 2120

Junior: CPSC 3410, PHIL/RLGN 3250, Cyber Elective, CPSC 4480; CPSC 4080, POSC 3370, Cyber Elective

Cybersecurity Major: 3 Year Suggested Course Sequence

SEMESTER 1	16	SEMESTER 2	16
CPSC 2020 (Quant. Reasoning)	4 Hours	CPSC 2080	3 Hours
CPSC 2300	3 Hours	CPSC 2180	2 Hours
POSC 2020 (Civil Discourse + C.R.)	3 Hours	MATH 2200/CPSC 2250	4 Hours
ENGL 1110	3 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	Scientific Ways of Knowing	4 Hours
Personal Wellness	2 Hours		

SUMMER 1	9
Additional Classes	9 Hours

SEMESTER 3	18	SEMESTER 4	17
CPSC 3380	4 Hours	POSC 2200	3 Hours
POSC 2400 (WI)	3 Hours	POSC 3350	3 Hours
COMM 1000	3 Hours	MATH 2120	4 Hours
BIBL 2000	3 Hours	POSC 2420	1 Hour
Civic Ways of Knowing	3 Hours	Social/Behavioral Ways of Knowing	3 Hours
Additional Class	2 Hours	Additional Class	3 Hours

SUMMER 2	9
Additional Classes	9 Hours

SEMESTER 5	18	SEMESTER 6	18
CPSC 3410	4 Hours	CPSC 4080	3 Hours
PHIL/RLGN 3250 (Christian Wok)	3 Hours	POSC 3370 (SI)	3 Hours
Cyber Elective	3 Hours	Cyber Elective	3 Hours
CPSC 4480	1 Hour	Global/Intercultural Ways of Knowing	3 Hours
Language	4 Hours	Additional Class	3 Hours
Aesthetic Ways of Knowing	3 Hours	Additional Class (WI)	3 Hours

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