

## Information Security Major (55 credit hours)

2018-2019

### Major Requirements:

#### • Foundation Courses (29 credit hours) from:

- POSC 2100, American National Government, 3 credit hours<sup>1</sup>
- POSC 2200, Public Policy, 3 credit hours
- POSC 2400, Political Science Research Methods, 3 credit hours<sup>2</sup>
- CPSC 1400, Computer Science I, 4 credit hours<sup>3</sup>
- CPSC 1500, Computer Science II, 4 credit hours
- CPSC 2100, Database Programming, 4 credit hours
- CPSC 2500, Data Structures and Algorithms, 4 credit hours
- MATH 2200/CPSC 2250, Discrete Mathematical Structures, 4 credit hours

#### • National Security Policy courses (9 hours):

- POSC 3310, Political Violence & Terrorism<sup>4</sup>, 3 credit hrs OR POSC 3300, International Politics, 3 credit hours<sup>4</sup>
- POSC/CRIM 3350, Homeland Security, 3 credit hours
- POSC 3370, Intelligence and Security Studies, 3 credit hours<sup>5</sup>

#### • Ethics courses (3 hours):

- PHIL/RLGN 3250, Ethics and Morality for Professionals, 3 credit hours<sup>6</sup>

#### • Professional Core (7 hours):

- CPSC 3410, Computer Networks, 3 credit hours
- CPSC/ENGR 3310, Cybersecurity, 3 credit hours
- CPSC/ENGR 3320, Cybersecurity Laboratory, 1 credit hour

#### • Computer Science electives chosen from (6 hours):

- CPSC 3500, Design and Analysis of Algorithms, 4 credit hours
- CPSC 3520, Artificial Intelligence, 4 credit hours
- CPSC 4100, Advanced Database Systems, 4 credit hours
- CPSC/ENGR 4310, Software Security, 3 credit hours
- CPSC 4420, Operating Systems, 3 credit hours
- CPSC 4430, Software Engineering, 3 credit hours

#### • Senior Capstone (1 hour):

- POSC 4930, Senior Seminar, 1 credit hour

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<sup>1</sup> This course fulfills the Civic of Knowing 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 Quantitative Ways of Knowing requirement in the Liberal Arts Program.

<sup>4</sup> This course fulfills the Global Ways of Knowing requirement in the Liberal Arts Program, and also the Writing Intensive requirement.

<sup>5</sup> This course fulfills the Speaking Intensive requirement in the Liberal Arts Program.

<sup>6</sup> This course fulfills the Christian Ways of Knowing requirement in the Liberal Arts Program.

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

Students with an interest in graduate level coursework in the cybersecurity field are strongly encouraged to complete MATH 2120.

Proposed course sequence:

Freshman: POSC 2100, CPSC 1400; POSC 2200, CPSC 1500

Sophomore: POSC 2400, CPSC 2100, CPSC 2500; MATH 2200/CPSC 2250, PHIL/REL 3250, Nat Sec elective

Junior: CPSC 3310/3320, Nat Sec elective; CPSC 3410, Nat Sec elective

Senior: POSC 4930, CS elective; CS elective

Information Security Major Suggested Course Sequence

2018-2019

SEMESTER 1		SEMESTER 2	
POSC 2100	3 Hours	POSC 2200	3 Hours
CPSC 1400	4 Hours	CPSC 1500	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	LART 1100	2 Hours
COMM 1000	3 Hours	BIOL 2070 (Sci. Ways of Know.)	4 Hours

SEMESTER 3		SEMESTER 4	
POSC 2400	3 Hours	MATH 2200/CPSC 2250	4 Hours
CPSC 2100	4 Hours	National Security elective	3 Hours
CPSC 2500	4 Hours	Personal Wellness	2 Hours
ECON 2010 (Social Ways of Know.)	3 Hours	COMM 2550 (Aesth. Ways of Know.)	3 Hours
Foreign Language	4 Hours	Elective	3 Hours

SEMESTER 5		SEMESTER 6	
CPSC 3310 and CPSC 3320	3+1 Hours	CPSC 3410 (Spring 2018-19)	3 Hours
National Security elective	3 Hours	National Security elective	3 Hours
PHIL/RLGN 3250	3 Hours	Elective	3 Hours
BIBL 2000	3 Hours	Elective	3 Hours
Elective	3 Hours	Elective	3 Hours

SEMESTER 7		SEMESTER 8	
POSC 4930	1 Hour	Computer Science elective	3 Hours
Computer Science elective	3 Hours	Free Elective	3 Hours
Free Elective	3 Hours	Free Elective	3 Hours
Free Elective	3 Hours	Free Elective	3 Hours
Free Elective	3 Hours	Free Elective	3 Hours

The Information Security program is designed for students who seek to understand the interaction between security policy and information systems. Courses acquaint students with information assurance, information systems, cybersecurity, and cyberwarfare. Majors in Information Security typically pursue careers in government service, information systems, and computer science.

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