

M.S. in Computer Science

Daytona Beach Program Requirements

Core Requirements	9
Area of Concentration	9
Option	12
Total Credits	30

Core Requirements

CPSC 529	Computer Security	3
SFTW 530	Software Requirements Engineering	3
SYSE 505	System Safety and Certification	3
Total Credits		9

Area of Concentration

Computer Science

CPSC 555	Artificial Intelligence	3
CPSC 600	Advanced Algorithms	3
DSCI 615	Data Modeling	3
Total Credits		9

Cybersecurity Engineering

CPSC 527	System Exploitation and Penetration Testing	3
CPSC 532	Software Security Assessment	3
CPSC 538	Applied Cryptography	3
Total Credits		9

Option

Option I: Capstone

CPSC 690	Graduate Research Project	3
Electives (500-600 level)		9
Electives are any 500-600 level course in CESC, CPSC, SFTW, SYSE, or with approval from Program Coordinator courses from DSCI or HFCT.		
Total Credits		12

Option II: Thesis

CPSC 700	Graduate Thesis	6
Electives (500-600 level)		6
Electives are any 500-600 level course in CESC, CPSC, SFTW, SYSE, or with approval from Program Coordinator courses from DSCI or HFCT.		
Total Credits		12

Suggested Plans of Study

Computer Science - Capstone Option

Year One

Requirements	Credits
CPSC 555 - Artificial Intelligence	3
SFTW 530 - Software Requirements Engineering	3
CPSC 529 - Computer Security	3
Semester Hours	9

Requirements	Credits
SYSE 505 - System Safety and Certification	3
DSCI 615 - Data Modeling	3
CPSC 600 - Advanced Algorithms	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
Specified Elective*	3
Specified Elective*	3
Semester Hours	6

Requirements	Credits
Specified Elective*	3
CPSC 690 - Graduate Research Project	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 12

* Electives: Any course in CESC, CPSC, SFTW, SYSE, or with approval from Program Coordinator courses from DSCI or HFCT.

Computer Science - Thesis Option

Year One

Requirements	Credits
CPSC 555 - Artificial Intelligence	3
SFTW 530 - Software Requirements Engineering	3
CPSC 529 - Computer Security	3
Semester Hours	9

Requirements	Credits
SYSE 505 - System Safety and Certification	3
DSCI 615 - Data Modeling	3
CPSC 600 - Advanced Algorithms	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
CPSC 700 - Graduate Thesis	3
Specified Elective*	3
Semester Hours	6

Requirements	Credits
CPSC 700 - Graduate Thesis	3
Specified Elective*	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 12

* Electives: Any course in CESC, CPSC, SFTW, SYSE, or with approval from Program Coordinator courses from DSCI or HFCT.

Cybersecurity Engineering - Capstone Option

Year One

Requirements	Credits
CPSC 538 - Applied Cryptography	3
SFTW 530 - Software Requirements Engineering	3
CPSC 529 - Computer Security	3
Semester Hours	9

Requirements	Credits
SYSE 505 - System Safety and Certification	3
CPSC 527 - System Exploitation and Penetration Testing	3
CPSC 532 - Software Security Assessment	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
Specified Elective *	3
Specified Elective *	3
Semester Hours	6

Requirements	Credits
Specified Elective *	3
CPSC 690 - Graduate Research Project	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 12

* Electives: Any course in CESC, CPSC, SFTW, SYSE, or with approval from Program Coordinator courses from DSCI or HFCT.

Cybersecurity Engineering - Thesis Option

Year One

Requirements	Credits
CPSC 538 - Applied Cryptography	3
SFTW 530 - Software Requirements Engineering	3
CPSC 529 - Computer Security	3
Semester Hours	9

Requirements	Credits
SYSE 505 - System Safety and Certification	3
CPSC 527 - System Exploitation and Penetration Testing	3
CPSC 532 - Software Security Assessment	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
CPSC 700 - Graduate Thesis	3
Specified Elective *	3
Semester Hours	6

Requirements	Credits
CPSC 700 - Graduate Thesis	3
Specified Elective *	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 12

* Electives: Any course in CESC, CPSC, SFTW, SYSE, or with approval from Program Coordinator courses from DSCI or HFCT.