

Cybersecurity and Robotics & Autonomous Systems

FIRST YEAR-FALL	HR	Notes	FIRST YEAR-SPRING	HR	Notes
ENGL 1101	3		ENGL 1102	3	
MATH 1551	2		MATH 1552	4	
MATH 1554	4		Social Science Elective	3	
CS 1301	3		PHYS 2211	4	
CHEM 1310	4		CS 1331	3	
ECE 1100	1				
TOTAL SEMESTER HOURS	17		TOTAL SEMESTER HOURS	17	

SECOND YEAR-FALL	HR	Notes	SECOND YEAR-SPRING	HR	Notes
MATH 2550	2		ECE 2040	3	
PHYS 2212	4		History/Government Elective	3	6
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
ECE 2026	3		ECE 2031	2	
APPH 1040 OR 1050	2				
TOTAL SEMESTER HOURS	17		TOTAL SEMESTER HOURS	16	

THIRD YEAR-FALL	HR	Notes	THIRD YEAR-SPRING	HR	Notes
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3550	3		CS3251	3	
CS 2050 OR CS 2051	3		ECE 4550	4	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
Elective Hours	1	1	Elective Hours	2	1
TOTAL SEMESTER HOURS	17		TOTAL SEMESTER HOURS	16	

FOURTH YEAR-FALL	HR	Notes	FOURTH YEAR-SPRING	HR	Notes
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Rob & Auto Topics	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Cybersecurity Topics	4	1	Elective Hours	3	
ECE 4115	4		Pick 1 of Cybersecurity Topics	3	
Social Science Elective	3		Elective Hours	3	1
TOTAL SEMESTER HOURS	15		TOTAL SEMESTER HOURS	14	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
Total Hours for Degree	129	129

Cyber + ROB			
	Lec	Lab	Hours
Institute Core Hours+Prob Stat:	x	x	60
Common Core	x	x	27
Total Thread Hours:	x	x	30
Elective Hours (includes Senior Design Sequence)	x	x	12
Total Degree Hours			129

CmpE Common Core			
ECE 1100 - ECE Discovery Studio	1	0	1
CS 1331 Introduction to Object-Oriented Programming	3	0	3
CS 1332 Data Structures and Algorithms	3	0	3
CS 2050 or CS 2051 Introduction to Discrete Math for CS	3	0	3
ECE 2020 – Fundamentals of Digital System Design	3	0	3
ECE 2040 - Circuit Analysis	3	0	3
ECE 2031 – Digital Design Laboratory	1	3	2
ECE 2035 - Programming HW/SW Sys	3	3	4
ECE 3005 - Professional Communications	1	0	1
ECE 3058 – Architecture, Concurrency and Energy in Computation	3	3	4
Total	24	9	27

Cybersecurity			
CS 3251 - Computer Networking 1	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
Pick 2 of Cybersecurity Topics	x	x	7
Robotics & Autonomous Systems			
ECE2026 - Intro Signal Processing	2	3	3
ECE 3550 - Feedback Control Systems	3	0	3
ECE 4550 - Control System Design	3	3	4
Pick 1 of Robotics & Autonomous Systems Topics	3	0	3
ECE 3000/4000 Elective (From any EE Thread)	3	0	3
Total (See Notes 3 and 4)	x	x	30

Total Degree Hours:	x	x	129
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- (1) Elective hours depend on thread picks and Senior Design Option
- (2) See degree options for senior design
- (3) Thread hours may depend on thread picks
- (4) For shared thread courses, select an additional ECE/CS 3000/4000 elective or pick
- (5) EE Thread electives must come from an EE thread
- (6) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000