

Cybersecurity and Systems & Architecture							
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					
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>17</b>	
SECOND YEAR-FALL		HR	Notes	SECOND YEAR-SPRING		HR	Notes
MATH 2550		2		ECE 2031		2	
PHYS 2212		4		History/Government Elective		3	5
CS 1332		3		MATH 2552		4	
ECE 2020		3		ECE 2035		4	
CS 2050 OR CS 2051		3		CS 2340		3	
APPH 1040 OR 1050		2					
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>16</b>	
THIRD YEAR-FALL		HR	Notes	THIRD YEAR-SPRING		HR	Notes
Humanities Elective		3		Economics/Social Science Elective		3	
ECE 2040		3		CS 3210		3	
Social Science Elective		3		CS 3251		3	
Prob & Stat option		3		Elective Hours		3	1
ECE 3058		4		Humanities Elective		3	
Elective Hours		1	1	ECE 3005		1	
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>16</b>	
FOURTH YEAR-FALL		HR	Notes	FOURTH YEAR-SPRING		HR	Notes
Senior Design Sequence		1	2	Senior Design Sequence		2	2
CS 3510 or CS 3511		3		Pick 1 of Adv Sys & Architecture		3	
CS 3220		3		Pick 1 of Systems Software Tools		3	
ECE 4115		4		Pick 1 of Cybersecurity Topics		3	
Pick 1 of Cybersecurity Topics		4		Elective Hours		3	1
<b>TOTAL SEMESTER HOURS</b>		<b>15</b>		<b>TOTAL SEMESTER HOURS</b>		<b>14</b>	
Completed Hours:							
Remaining Hours:							
Surplus Non Usable Hours							
Total Hours for Degree		<b>129</b>	129				

Cyber + Sys&Arch			
	Lec	Lab	Hours
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	32
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	10
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>
Cybersecurity			
CS 3251 - Computer Networking 1	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>
Systems & Architecture			
CS 2340 - Objects and Design	3	0	3
CS 3210 - Design of Operating Systems	3	0	3
CS 3220 - Comp Structures: HW/SW Codesign of a Proc	3	0	3
CS 3510 or CS 3511 - Design and analysis of algorithms	3	0	3
<b>Pick 1 of Advanced Systems &amp; Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Systems Software Tools</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>32</b>
<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>

(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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

**Cybersecurity and Devices**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2031	2	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
CS 2050 OR CS 2051	3		CS 2340	3	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2040	3		CS 3251	3	
Social Science Elective	3		Elective Hours	3	1
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			ECE/CS 3000/4000 Elective	3	4
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
CS 3510 or CS 3511	3		Pick 1 of Building Devices	4	
Elective hours	3	1	Pick 1 of Devices in the Real World	3	
ECE 4115	4		Pick 1 of Cybersecurity Topics	3	
Pick 1 of Cybersecurity Topics	4		Elective Hours	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>15</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

### Cyber + Devices

	Lec	Lab	Hours
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	30
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	12
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

### Cybersecurity

CS 3251 Computer Networking 1 (*)	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>

### Devices

CS 2340 - Objects and Design	3	0	3
CS 3251 - Computer Networking (*)	3	0	3
CS 3510 or CS 3511 - Design and analysis of algorithms	3	0	3
<b>Pick 1 of Building Devices</b>	<b>3</b>	<b>3</b>	<b>4</b>
<b>Pick 1 of Devices in the Real World</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>30</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000
- (\*) CS3251 is duplicated in the required list of courses (See Note 4)

**Cybersecurity and Information Internetworks**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2031	2	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
CS 2050 OR CS 2051	3		CS 2340	3	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2040	3		CS 3251	3	
Social Science Elective	3		Elective Hours	3	1
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			Elective Hours	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
CS 3510 or CS 3511	3		Pick 1 from Advanced Information Mgt.	3	
Pick 1 from Intro to Information Mgt	3		ECE/CS 3000/4000 Elective	3	4
ECE 4115	4		Pick 1 of Cybersecurity Topics	3	
Pick 1 of Cybersecurity Topics	4		Elective Hours	4	1
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>15</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

**Cyber + Infmt**

	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	29
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	13
<b>Total Degree Hours</b>			<b>129</b>

**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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

**Cybersecurity**

CS 3251 Computer Networking 1 (*)	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>

**Information Internetworks**

CS 2340 Objects and Design	3	0	3
CS 3510 or CS 3511 Design and Analysis of Algorithms	3	0	3
<b>Pick 2 from Intro to Information Management (*)</b>	<b>6</b>	<b>0</b>	<b>6</b>
<b>Pick 1 from Advanced Information Management</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>29</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000
- (\*) CS3251 is duplicated in the required list of courses (See Note 4)

**Cybersecurity and Distributed System & Software Design**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2040	3	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
Humanities Elective	3		ECE 2031	2	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
Elective Hours	3	1	CS 3251	3	
CS 2050 OR CS 2051	3		Elective Hours	3	1
Prob & Stat option	3		Pick 1 of Advanced Software	3	
ECE 3058	4		ECE 3005	1	
Elective Hours	1	1	Elective Hours	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Edge, Cloud, and Mobile Apps	3		Elective Hours	3	1
Pick 1 of Cybersecurity Topics	4		Pick 1 of Edge, Cloud, and Mobile Apps	3	
ECE 4115	4		Pick 1 of Cybersecurity Topics	3	
Social Science Elective	3		ECE/CS 3000/4000 Elective	3	4
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

**Cyber + DSSD**

	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	26
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	16
<b>Total Degree Hours</b>			<b>129</b>

**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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

**Cybersecurity**

CS 3251 Computer Networking 1 (*)	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>

**Distributed System & Software Design**

CS 3251 - Computer Networking (*)	3	0	3
<b>Pick 1 of Advanced Software</b>	3	0	3
<b>Pick 2 of Edge, Cloud, and Mobile Apps</b>	<b>6</b>	<b>x</b>	<b>6</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>26</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000
- (\*) CS3251 is duplicated in the required list of courses (See Note 4)



**Cybersecurity and Computing Hardware & Emerging Architectures**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2040	3	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
Humanities Elective	3		ECE 2031	2	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3150	4		CS 3251	3	
CS 2050 OR CS 2051	3		Elective Hours	3	1
Prob & Stat option	3		ECE 3030	3	
ECE 3058	4		ECE 3005	1	
			Elective Hours	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Embedded Systems	3		Elective Hours	3	1
Pick 1 of Cybersecurity Topics	4		Pick 1 of Integration, Devices, Fabrication	3	
ECE 4115	4		Pick 1 of Cybersecurity Topics	3	
Social Science Elective	3		Pick 1 of Computer Architecture	3	
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

**Cyber + CHEA**

	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	30
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	12
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

**Cybersecurity**

CS 3251 Computer Networking 1	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>

**Computing Hardware & Emerging Architectures**

ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>30</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

Distributed System & Software Design & Architecture							
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					
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>17</b>	
SECOND YEAR-FALL		HR	Notes	SECOND YEAR-SPRING		HR	Notes
MATH 2550		2		ECE 2031		2	
PHYS 2212		4		History/Government Elective		3	5
CS 1332		3		MATH 2552		4	
ECE 2020		3		ECE 2035		4	
CS 2050 OR CS 2051		3		CS 2340		3	
APPH 1040 OR 1050		2					
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>16</b>	
THIRD YEAR-FALL		HR	Notes	THIRD YEAR-SPRING		HR	Notes
Humanities Elective		3		Economics/Social Science Elective		3	
ECE 2040		3		CS 3210		3	
Social Science Elective		3		CS 3251		3	
Prob & Stat option		3		Pick 1 of Advanced Software		3	1
ECE 3058		4		Humanities Elective		3	
Elective Hours		1	1	ECE 3005		1	
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>16</b>	
FOURTH YEAR-FALL		HR	Notes	FOURTH YEAR-SPRING		HR	Notes
Senior Design Sequence		1	2	Senior Design Sequence		2	2
CS 3510 or CS 3511		3		Pick 1 of Adv Sys & Architecture		3	
CS 3220		3		Pick 1 of Systems Software Tools		3	
Pick 1 of Edge, Cloud, and Mobile Apps		3		Pick 1 of Edge, Cloud, and Mobile Apps		3	
Elective Hours		3	1	Elective Hours		3	1
Elective Hours		2					
<b>TOTAL SEMESTER HOURS</b>		<b>15</b>		<b>TOTAL SEMESTER HOURS</b>		<b>14</b>	
Completed Hours:							
Remaining Hours:							
Surplus Non Usable Hours							
<b>Total Hours for Degree</b>		<b>129</b>	129				

**DSSD + Sys&Arch**

	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	30
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	12
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

**Distributed System & Software Design**

CS 3251 - Computer Networking	3	0	3
<b>Pick 1 of Advanced Software (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Edge, Cloud, and Mobile Apps</b>	<b>6</b>	<b>x</b>	<b>6</b>

**Systems & Architecture**

CS 2340 - Objects and Design	3	0	3
CS 3210 - Design of Operating Systems	3	0	3
CS 3220 - Comp Structures: HW/SW Codesign of a Proc	3	0	3
CS 3510 or CS 3511 - Design and analysis of algorithms	3	0	3
<b>Pick 1 of Advanced Systems &amp; Architecture (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Systems Software Tools</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>30</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

(\*) CS4220 is a shared pick (see Note 4)

**Distributed System & Software Design and Devices**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2031	2	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
CS 2050 OR CS 2051	3		CS 2340	3	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2040	3		CS 3251	3	
Social Science Elective	3		ECE/CS 3000/4000 Elective	3	4
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			Pick 1 of Advanced Software	3	
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
CS 3510 or CS 3511	3		Pick 1 of Building Devices	4	
Elective hours	3	1	Pick 1 of Devices in the Real World	3	
Pick 1 of Edge, Cloud, and Mobile Apps	3		Pick 1 of Edge, Cloud, and Mobile Apps	3	
Elective Hours	3	1	Elective Hours	3	1
Elective Hours	2	1			
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>15</b>	
Completed Hours:					
Remaining Hours:					
Surplus Non Usable Hours					
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>			

<b>DSSD + Devices</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	28
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	14
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Distributed System &amp; Software Design</b>			
CS 3251 - Computer Networking (*)	3	0	3
<b>Pick 1 of Advanced Software</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Edge, Cloud, and Mobile Apps (**)</b>	<b>6</b>	<b>x</b>	<b>6</b>
<b>Devices</b>			
CS 2340 - Objects and Design	3	0	3
CS 3251 - Computer Networking (*)	3	0	3
CS 3510 or CS 3511 - Design and analysis of algorithms	3	0	3
<b>Pick 1 of Building Devices (**)</b>	<b>3</b>	<b>3</b>	<b>4</b>
<b>Pick 1 of Devices in the Real World</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>28</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

(\*) CS3251 is duplicated in the required list of courses (See Note 4)

(\*\*) ECE4180 is a shared pick (see Note 4)

**Distributed System & Software Design and Information Internetworks**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2031	2	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
CS 2050 OR CS 2051	3		CS 2340	3	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2040	3		CS 3251	3	
Social Science Elective	3		Elective Hours	3	1
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			Pick 1 of Advanced Software	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
CS 3510 or CS 3511	3		Pick 1 from Advanced Information Mgt.	3	
Pick 1 from Intro to Information Mgt	3		ECE/CS 3000/4000 Elective	3	4
Pick 1 of Edge, Cloud, and Mobile Apps	3		Pick 1 of Edge, Cloud, and Mobile Apps	3	
Elective Hours	3	1	Elective Hours	3	1
Elective Hours	3	1			
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

<b>DSSD + Inftnt</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	27
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	15
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Distributed System &amp; Software Design</b>			
CS 3251 - Computer Networking (*)	3	0	3
<b>Pick 1 of Advanced Software</b>	3	0	3
<b>Pick 2 of Edge, Cloud, and Mobile Apps</b>	6	x	6
<b>Information Internetworks</b>			
CS 2340 Objects and Design	3	0	3
CS 3510 or CS 3511 Design and Analysis of Algorithms	3	0	3
<b>Pick 2 from Intro to Information Management (*)</b>	6	0	6
<b>Pick 1 from Advanced Information Management</b>	3	0	3
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>27</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000



**Distributed System & Software Design and Computing Hardware & Emerging Architectures**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2040	3	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
Humanities Elective	3		ECE 2031	2	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3150	4		CS 3251	3	
CS 2050 OR CS 2051	3		Elective Hours	2	1
Prob & Stat option	3		ECE 3030	3	
ECE 3058	4		ECE 3005	1	
			Pick 1 of Advanced Software	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>15</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Embedded Systems	3		Elective Hours	3	1
Pick 1 of Edge, Cloud, and Mobile Apps	3		Pick 1 of Integration, Devices, Fabrication	3	
Elective Hours	3	1	Pick 1 of Edge, Cloud, and Mobile Apps	3	
Social Science Elective	3		Pick 1 of Computer Architecture	3	
Elective Hours	3	1			
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

<b>DSSD+CHEA</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	28
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	14
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Distributed System &amp; Software Design</b>			
CS 3251 - Computer Networking	3	0	3
<b>Pick 1 of Advanced Software (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Edge, Cloud, and Mobile Apps (*)</b>	<b>6</b>	<b>x</b>	<b>6</b>
<b>Computing Hardware &amp; Emerging Architectures</b>			
ECE 3150 - VLSI & Adv Digital Design	3	0	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>28</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)  
(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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000  
(\*) CS4220 and ECE4180 are shared picks (see Note 4)

Computing Hardware & Emerging Architectures and Systems & Architecture							
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	
CHEM1310		4		CS 1331		3	
ECE 1100		1					
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>17</b>	
SECOND YEAR-FALL		HR	Notes	SECOND YEAR-SPRING		HR	Notes
MATH 2550		2		ECE 2031		2	
PHYS 2212		4		History/Government Elective		3	5
CS 1332		3		MATH 2552		4	
ECE 2020		3		ECE 2035		4	
CS 2050 OR CS 2051		3		CS 2340		3	
APPH 1040 OR 1050		2					
<b>TOTAL SEMESTER HOURS</b>		<b>17</b>		<b>TOTAL SEMESTER HOURS</b>		<b>16</b>	
THIRD YEAR-FALL		HR	Notes	THIRD YEAR-SPRING		HR	Notes
Humanities Elective		3		Economics/Social Science Elective		3	
ECE 2040		3		CS 3210		3	
Social Science Elective		3		ECE 3030		3	
Prob & Stat option		3		ECE 3150		4	
ECE 3058		4		Humanities Elective		3	
				ECE 3005		1	
<b>TOTAL SEMESTER HOURS</b>		<b>16</b>		<b>TOTAL SEMESTER HOURS</b>		<b>17</b>	
FOURTH YEAR-FALL		HR	Notes	FOURTH YEAR-SPRING		HR	Notes
Senior Design Sequence		1	2	Senior Design Sequence		2	2
CS 3510 or CS 3511		3		Pick 1 of Adv Sys & Architecture		3	
CS 3220		3		Pick 1 of Systems Software Tools		3	
Pick 1 of Integration, Dev, and Fab		3		Pick 1 of Computer Architecture		3	
Pick 1 of Embedded Systems		3	1	Elective Hours		3	1
Elective Hours		2	1				
<b>TOTAL SEMESTER HOURS</b>		<b>15</b>		<b>TOTAL SEMESTER HOURS</b>		<b>14</b>	
Completed Hours:							
Remaining Hours:							
Surplus Non Usable Hours							
<b>Total Hours for Degree</b>		<b>129</b>	129				

**CHEA + Sys&Arch**

	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	34
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	8
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

**Computing Hardware & Emerging Architectures**

ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>x</b>	<b>3</b>
<b>Pick 1 of Computer Architecture (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>

**Systems & Architecture**

CS 2340 - Objects and Design	3	0	3
CS 3210 - Design of Operating Systems	3	0	3
CS 3220 - Comp Structures: HW/SW Codesign of a Proc	3	0	3
CS 3510 or CS 3511 - Design and analysis of algorithms	3	0	3
<b>Pick 1 of Advanced Systems &amp; Architecture (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Systems Software Tools</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>34</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000
- (\*) CS4220 and ECE4100 are shared picks (see Note 4)

**Computing Hardware & Emerging Architectures and Devices**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2031	2	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
CS 2050 OR CS 2051	3		CS 2340	3	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2040	3		ECE 3030	3	
Elective Hours	3	1	ECE 3150	4	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			CS 3251	3	
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
CS 3510 or CS 3511	3		Pick 1 of Building Devices	4	
Elective Hours	1		Pick 1 of Devices in the Real World	3	
Pick 1 of Integration, Dev, & Fab	3		Pick 1 of Computer Architecture	3	
Pick 1 of Embedded Systems	3	1	Elective Hours	3	1
Social Science Elective	3				
<b>TOTAL SEMESTER HOURS</b>	<b>14</b>		<b>TOTAL SEMESTER HOURS</b>	<b>15</b>	
Completed Hours:					
Remaining Hours:					
Surplus Non Usable Hours					
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>			

**CHEA + Devices**

	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	32
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	10
<b>Total Degree Hours</b>			<b>129</b>

**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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

**Computing Hardware & Emerging Architectures**

ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>x</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Devices</b>			
CS 2340 - Objects and Design	3	0	3
CS 3251 - Computer Networking (*)	3	0	3
CS 3510 or CS 3511 - Design and analysis of algorithms	3	0	3
<b>Pick 1 of Building Devices (*)</b>	<b>3</b>	<b>3</b>	<b>4</b>
<b>Pick 1 of Devices in the Real World</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>32</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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(1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)

(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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

(\*) ECE4180 is a shared pick (see Note 4)

**Cybersecurity and Signal & Information Processing**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3084	3		CS 3251	3	
CS 2050 OR CS 2051	3		ECE 4270	3	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
Elective Hours	1	1	Elective Hours	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of SIP 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
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

<b>Cyber + SIP</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	29
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	13
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Cybersecurity</b>			
CS 3251 - Computer Networking 1	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>
<b>Signal &amp; Information Processing</b>			
ECE2026 - Intro Signal Processing	2	3	3
ECE 3084 Signals and Systems	3	0	3
ECE 4270 - Fundamentals of DSP	3	0	3
<b>Pick 1 of Signal and Information Processing Topics</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>29</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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



**Cybersecurity and Telecommunications**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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	
Humanities Elective	3		ECE 2031	2	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2026	3		CS 3251	3	
CS 2050 OR CS 2051	3		ECE 4601 OR ECE 4606	3	
Prob & Stat option	3		ECE/CS 3000/4000 elective	3	4
ECE 3058	4		ECE 3005	1	
Elective Hours	1	1	Elective Hours	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Telecommunication 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
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

<b>Cyber + TELE</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	29
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	13
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Cybersecurity</b>			
CS 3251 - Computer Networking 1 (*)	3	0	3
ECE 4115 - Introducton to Computer Security	3	3	4
<b>Pick 2 of Cybersecurity Topics</b>	<b>x</b>	<b>x</b>	<b>7</b>
<b>Telecommunications</b>			
ECE 2026 - Intro Signal Processing	2	3	3
CS 3251 - Computer Newtworking 1 (*)	3	0	3
ECE 4601 – Comm Sys OR ECE 4606 – Wireless Comm	3	0	3
<b>Pick 1 of Telecommuncations Topics</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>29</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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
- (\*) CS3251 is a shared course (see note 4)

**Cybersecurity and Robotics & Autonomous Systems**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

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

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

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

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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

**Computing Hardware & Emerging Architectures and Information Internetworks**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
MATH 2550	2		ECE 2031	2	
PHYS 2212	4		History/Government Elective	3	5
CS 1332	3		MATH 2552	4	
ECE 2020	3		ECE 2035	4	
CS 2050 OR CS 2051	3		CS 2340	3	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2040	3		ECE 3030	3	
Social Science Elective	3		ECE 3150	4	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			Pick 1 from Intro to Information Mgt	3	
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
CS 3510 or CS 3511	3		Pick 1 from Advanced Information Mgt.	3	
Pick 1 from Intro to Information Mgt	3		Pick 1 of Integration, Devices, & Fab	3	
Pick 1 of Embedded Systems	3		Pick 1 of Computer Architecture	3	
Elective Hours	3	1	Elective Hours	3	1
Elective Hours	2	1			
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

<b>CHEA + Infint</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	31
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	11
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Computing Hardware &amp; Emerging Architectures</b>			
ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>x</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Information Internetworks</b>			
CS 2340 Objects and Design	3	0	3
CS 3510 or CS 3511 Design and Analysis of Algorithms	3	0	3
<b>Pick 2 from Intro to Information Management</b>	<b>6</b>	<b>0</b>	<b>6</b>
<b>Pick 1 from Advanced Information Management</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>31</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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- (1) Elective hours depend on thread picks and Senior Design Option (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

**Distributed System & Software Design and Signal & Information Processing**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3084	3		CS3251	3	
CS 2050 OR CS 2051	3		ECE 4270	3	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
Elective Hours	1	1	Pick 1 of Advanced Software	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of SIP Topics	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Edge, Cloud, and Mobile Apps	3	1	Elective Hours	3	1
Elective Hours	3		Pick 1 of Edge, Cloud, and Mobile Apps	3	
Social Science Elective	3		Elective Hours	3	1
Elective Hours	2	1			
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	
Completed Hours:					
Remaining Hours:					
Surplus Non Usable Hours					
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>			

DSSD + SIP			
	Lec	Lab	Hours
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	27
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	15
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

Distributed System & Software Design			
CS 3251 - Computer Networking	3	0	3
<b>Pick 1 of Advanced Software (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Edge, Cloud, and Mobile Apps (*)</b>	<b>6</b>	<b>x</b>	<b>6</b>
Signal & Information Processing			
ECE2026 - Intro Signal Processing	2	3	3
ECE 3084 Signals and Systems	3	0	3
ECE 4270 - Fundamentals of DSP	3	0	3
<b>Pick 1 of Signal and Information Processing Topics (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>27</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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
- (\*) ECE4122, ECE4180 are shared in thread picks (see Note 4)



**Distributed System & Software Design and Telecommunications**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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	
Humanities Elective	3		ECE 2031	2	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2026	3		CS3251	3	
CS 2050 OR CS 2051	3		ECE 4601 OR ECE 4606	3	
Prob & Stat option	3		ECE/CS 3000/4000 elective	3	4
ECE 3058	4		ECE 3005	1	
Elective Hours	1	1	Pick 1 of Advanced Software	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Telecommunications Topics	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Edge, Cloud, and Mobile Apps	3		Elective Hours	3	1
Elective Hours	3	1	Pick 1 of Edge, Cloud, and Mobile Apps	3	
Social Science Elective	3		Elective Hours	3	1
Elective Hours	2	1			
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	
Completed Hours:					
Remaining Hours:					
Surplus Non Usable Hours					
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>			

<b>DSSD + TELE</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	27
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	15
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Distributed System &amp; Software Design</b>			
CS 3251 - Computer Networking (*)	3	0	3
<b>Pick 1 of Advanced Software</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Edge, Cloud, and Mobile Apps</b>	<b>6</b>	<b>x</b>	<b>6</b>
<b>Telecommunications</b>			
ECE2026 - Intro Signal Processing	2	3	3
CS 3251 - Computer Networking 1 (*)	3	0	3
ECE 4601 – Comm Sys OR ECE 4606 – Wireless Comm	3	0	3
<b>Pick 1 of Telecommunications Topics</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>27</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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
- (\*) CS3251 is a shared course (see note 4)

**Distributed System & Software Design and Robotics & Autonomous Systems**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE3550	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	Pick 1 of Advanced Software	3	1
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Robotics & Auto Systems	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Edge, Cloud, and Mobile Apps	3	1	Elective Hours	3	1
Elective Hours	3		Pick 1 of Edge, Cloud, and Mobile Apps	3	
Social Science Elective	3		Elective Hours	3	1
Elective Hours	1	1			
<b>TOTAL SEMESTER HOURS</b>	<b>14</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>

DSSD + ROB			
	Lec	Lab	Hours
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	28
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	14
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

Distributed System & Software Design			
CS 3251 - Computer Networking	3	0	3
<b>Pick 1 of Advanced Software</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 2 of Edge, Cloud, and Mobile Apps</b>	<b>6</b>	<b>x</b>	<b>6</b>
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
<b>Pick 1 of Robotics &amp; Autonomous Systems Topics</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>28</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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

**Computing Hardware & Emerging Architectures and Signal & Information Processing**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3084	3		ECE 3150	4	
CS 2050 OR CS 2051	3		ECE 4270	3	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3005	1	
			ECE 3030	3	
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of SIP Topics	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Embedded Systems	3	1	Pick 1 of Integration, Devices, & Fab	3	
Elective Hours	3		Pick 1 of Computer Architecture	3	
Social Science Elective	3		Elective Hours	3	1
Elective Hours	2	1			
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	
Completed Hours:					
Remaining Hours:					
Surplus Non Usable Hours					
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>			

CHEA + SIP			
	Lec	Lab	Hours
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	31
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	11
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

Computing Hardware & Emerging Architectures			
ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>x</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Signal &amp; Information Processing</b>			
ECE2026 - Intro Signal Processing	2	3	3
ECE 3084 Signals and Systems	3	0	3
ECE 4270 - Fundamentals of DSP	3	0	3
<b>Pick 1 of Signal and Information Processing Topics (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>31</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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
- (\*) ECE4180 is a shared pick (see Note 4)

**Computing Hardware & Emerging Architectures and Telecommunications**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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	
Humanities Elective	3		ECE 2031	2	
APPH 1040 OR 1050	2				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 2026	3		ECE 3600 OR CS 3251	3	
CS 2050 OR CS 2051	3		ECE 3030	3	
Prob & Stat option	3		ECE 3150	4	
ECE 3058	4		ECE 3005	1	
			Elective Hours	3	
<b>TOTAL SEMESTER HOURS</b>	<b>16</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Telecommunications Topics	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Embedded Systems	3		Pick 1 of Integration, Devices, & Fab	3	
ECE 4601 or ECE 4606	3	1	Pick 1 of Computer Architecture	3	
Social Science Elective	3		Elective Hours	3	1
Elective Hours	2	1			
<b>TOTAL SEMESTER HOURS</b>	<b>15</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	
Completed Hours:					
Remaining Hours:					
Surplus Non Usable Hours					
<b>Total Hours for Degree</b>	<b>129</b>	<b>129</b>			

<b>CHEA + TELE</b>			
	<b>Lec</b>	<b>Lab</b>	<b>Hours</b>
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	31
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	11
<b>Total Degree Hours</b>			<b>129</b>

<b>CmpE Common Core</b>			
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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

<b>Computing Hardware &amp; Emerging Architectures</b>			
ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>x</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Telecommunications</b>			
ECE2026 - Intro Signal Processing	2	3	3
ECE 3600 - Comp Comm OR CS 3251 - Comp Net	3	0	3
ECE 4601 – Comm Sys OR ECE 4606 – Wireless Comm	3	0	3
<b>Pick 1 of Telecommunications Topics</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>31</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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



**Computing Hardware & Emerging Architectures and Robotics & Autonomous Systems**

<b>FIRST YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FIRST YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>SECOND YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>SECOND YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
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				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	

<b>THIRD YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>THIRD YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Humanities Elective	3		Economics/Social Science Elective	3	
ECE 3550	3		ECE 3150	4	
CS 2050 OR CS 2051	3		ECE 4550	4	
Prob & Stat option	3		Humanities Elective	3	
ECE 3058	4		ECE 3030	3	
ECE 3005	1				
<b>TOTAL SEMESTER HOURS</b>	<b>17</b>		<b>TOTAL SEMESTER HOURS</b>	<b>17</b>	

<b>FOURTH YEAR-FALL</b>	<b>HR</b>	<b>Notes</b>	<b>FOURTH YEAR-SPRING</b>	<b>HR</b>	<b>Notes</b>
Senior Design Sequence	1	2	Senior Design Sequence	2	2
Pick 1 of Robotics & Auto Systems	3		ECE 3000/4000 Elective (EE Thread)	3	5
Pick 1 of Embedded Systems	3	1	Pick 1 of Integration, Devices, & Fab	3	
Elective Hours	3		Pick 1 of Computer Architecture	3	
Social Science Elective	3		Elective Hours	3	1
Elective Hours	1	1			
<b>TOTAL SEMESTER HOURS</b>	<b>14</b>		<b>TOTAL SEMESTER HOURS</b>	<b>14</b>	

Completed Hours:		
Remaining Hours:		
Surplus Non Usable Hours		
<b>Total Hours for Degree</b>	<b>129</b>	129

CHEA + ROB			
	Lec	Lab	Hours
<b>Institute Core Hours+Prob Stat:</b>	x	x	60
<b>Common Core</b>	x	x	27
<b>Total Thread Hours:</b>	x	x	32
<b>Elective Hours (includes Senior Design Sequence)</b>	x	x	10
<b>Total Degree Hours</b>			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
<b>Total</b>	<b>24</b>	<b>9</b>	<b>27</b>

Computing Hardware & Emerging Architectures			
ECE 3150 - VLSI & Adv Digital Design	3	3	4
ECE 3030 – Physical Found. of Computer Engineering	3	0	3
<b>Pick 1 of Embedded Systems (*)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Pick 1 of Integration, Devices &amp; Fabrication</b>	<b>3</b>	<b>x</b>	<b>3</b>
<b>Pick 1 of Computer Architecture</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Robotics &amp; Autonomous Systems</b>			
ECE2026 - Intro Signal Processing	2	3	3
ECE 3550 - Feedback Control Systems	3	0	3
ECE 4550 - Control System Design	3	3	4
<b>Pick 1 of Robotics &amp; Autonomous Systems Topics</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>ECE 3000/4000 Elective (From any EE Thread)</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Total (See Notes 3 and 4)</b>	<b>x</b>	<b>x</b>	<b>32</b>

<b>Total Degree Hours:</b>	<b>x</b>	<b>x</b>	<b>129</b>
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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