

Department of Computer Science and Engineering  
Dwight Look College of Engineering  
Texas A&M University

**Computer Engineering – Computer Science Track (CECN)**  
Catalog 139, 2016-17

**FRESHMAN YEAR**

<b>First Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>	<b>Second Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>
ENGL 104 Comp. and Rhetoric	(3-0)	3	CHEM 107 Gen. Chem. for Eng. Students	(3-0)	3
ENGR 111 Foundations in Engineering I	(1-3)	2	CHEM 117 Gen. Chem. for Eng. Stu. Lab	(0-3)	1
MATH 151 Engineering Mathematics I	(3-2)	4	ENGR 112 Foundations in Engineering II	(1-3)	2
PHYS 218 Mechanics	(3-3)	4	MATH 152 Engineering Mathematics II	(3-2)	4
University Core Curriculum elective <sup>1</sup>		3	PHYS 208 Electricity and Optics	(3-3)	4
		<u>16</u>	University Core Curriculum elective <sup>1</sup>		<u>3</u>
					<u>17</u>

**SOPHOMORE YEAR**

<b>First Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>	<b>Second Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>
CSCE 121 Intro. Prog. Design and Concepts	(3-2)	4	CSCE 221 Data Struct. and Algo.	(3-2)	4
CSCE 222 Discrete Struct. for Computing	(3-0)	3	ECEN 214 Electrical Circuit Theory	(3-3)	4
ECEN 248 Digital Sys. Design	(3-3)	4	MATH 308 Differential Equations	(3-0)	3
MATH 251 Engineering Mathematics III	(3-0)	3	University Core Curriculum elective <sup>1</sup>	(3-0)	3
Communication elective <sup>4</sup>	(3-0)	3	STAT 211 Principles of Statistics I	(3-0)	3
		<u>17</u>			<u>17</u>

**JUNIOR YEAR**

<b>First Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>	<b>Second Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>
CSCE 313 Intro. to Computer Systems	(3-2)	4	CSCE 315 Programming Studio	(2-2)	3
CSCE 350 Comp. Arch and Design	(3-3)	4	CSCE 462 Microcomputer Sys	(2-2)	3
CSCE 481 Seminar	(0-2)	1	ECEN 325 Electronics	(3-4)	4
ECEN 314 Signals and Systems	(3-0)	3	ECEN 454 Digital Int. Circuit Des	(2-2)	3
MATH 311 Topics in Applied Math I	(3-0)	3	University Core Curriculum elective <sup>1</sup>	(3-0)	3
		<u>15</u>			<u>16</u>

**SENIOR YEAR**

<b>First Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>	<b>Second Semester</b>	<b>(Th-Pr)</b>	<b>Cr</b>
ENGR 482 Ethics and Engineering	(2-2)	3	CSCE 483 Computer Sys. Design	(1-6)	3
ENGR Elective <sup>3</sup>		3	Area elective <sup>2</sup>		3
Area elective <sup>2</sup>		3	Area elective <sup>2</sup>		3
Area elective <sup>2</sup>		3	University Core Curriculum elective <sup>1</sup>		3
Area elective <sup>2</sup>		<u>3</u>	University Core Curriculum elective <sup>1</sup>		<u>3</u>
		<u>15</u>			<u>15</u>

**NOTES:** Grade Requirements: A grade of C or better is required for each of the following courses: CSCE 121, CSCE 221, CSCE 222, CSCE 313, CSCE 315, CSCE 350, CSCE 462, CSCE 481, CSCE 483; ENGR 111, ENGR 112; ECEN 214, ECEN 248, ECEN 314, ECEN 325, ECEN 454; MATH 151, MATH 152, MATH 251, MATH 308, MATH 311; CHEM 107/CHEM 117, PHYS 208, PHYS 218; ENGL 104.

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from Government and Political Science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and the history requirements if they are also on the approved list of international and cultural diversity courses.
2. 15 hours of area electives chosen in consultation with academic advisor.
3. Three hours of coursework to be approved by student's advisor.
4. Select from ENGL 210 or COMM 205 or 243.