

**Department of Electrical and Computer Engineering**  
**Bachelor of Science in Computer Engineering**  
**Major Code: CPEN**

**Curriculum Guide**

<b>Course</b>	<b>CR</b>	<b>Course</b>	<b>CR</b>
<b>Freshman Year: First Semester</b>		<b>Freshman Year: Second Semester</b>	
ENGL 100	3	ENGL 101	3
ECEN 101	3	PHYS 241	3
CHEM 106	3	PHYS 251	1
CHEM 116	1	MATH 132	4
MATH 131	4	COMP 163	3
GEEN 111	1	GEEN 100	2
<b>Semester Total Hours</b>	<b>15</b>	<b>Semester Total Hours</b>	<b>16</b>
<b>Sophomore Year: First Semester</b>		<b>Sophomore Year: Second Semester</b>	
ECEN 227	3	MATH 231	4
COMP 167	3	ECEN 327	3
PHYS 242	3	ECEN 328	1
PHYS 252	1	COMP 280	3
MATH 431	3	ECEN 300	3
ECEN 200	3	ECEN 306	1
ECEN 206	1	<b>Semester Total Hours</b>	<b>15</b>
<b>Semester Total Hours</b>	<b>17</b>		
<b>Junior Year: First Semester</b>		<b>Junior Year: Second Semester</b>	
ECEN 423	3	Knowledge of African-American Culture and History	3
ECEN 429	1	ECEN 320	3
ECEN 427	3	ECEN 326	1
ECEN 433	1	ECEN 356	3
Social/ Behavioral Science Elective <sup>d</sup>	3	ECEN 375	3
COMP 285	3	ECEN 400	3
<b>Semester Total Hours</b>	<b>14</b>	<b>Semester Total Hours</b>	<b>16</b>
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
ECEN 478 <sup>a</sup>	3	ECEN 479 <sup>a</sup>	3
Technical Elective <sup>b</sup>	3	Technical Elective <sup>b</sup>	3
Technical Elective <sup>b or c</sup>	3	Technical Elective <sup>b or c</sup>	3
ECEN 421	3	COMP 350	3
SPCH 250	3	Global Awareness	3
<b>Semester Total Hours</b>	<b>15</b>	<b>Semester Total Hours</b>	<b>15</b>

**Total Credit Hours: 123**

<sup>a</sup>Capstone Design Courses

<sup>b</sup>Must choose from these courses: ECEN 424, ECEN 441, ECEN 447, ECEN 457, ECEN 459, or ECEN 485 (approved case-by-case)

<sup>c</sup>Must choose from these courses: COMP 322, COMP 360, COMP 4xx, or ECEN 4xx

<sup>d</sup>At least (3) credit must come from African-American studies, and (3) credit from Global Studies.

## MAJOR PROGRAM REQUIREMENTS

*Students must earn a C or better in the following courses:*

ECEN 101	ECEN 400
ECEN 200	ECEN 421
ECEN 206	ECEN 423
ECEN 227	ECEN 427
ECEN 300	ECEN 429
ECEN 306	ECEN 433
ECEN 320	ECEN 478
ECEN 326	ECEN 479
ECEN 327	COMP 163
ECEN 328	COMP 167
ECEN 356	COMP 280
ECEN 375	All Technical Electives