

Electrical Engineering Sample Schedule 2019-2020  
 Applies to students entering the CoE during or after Fall 2019

	Terms								
	Credit Hours	1	2	3	4	5	6	7	8
<b>Subjects Required by all programs (55 hrs.)</b>									
<sup>1</sup> Mathematics 115, 116, 215, 216	12	4	4	4	4	-	-	-	-
ENGR 100	4	4	-	-	-	-	-	-	-
ENGR 101	4	-	4	-	-	-	-	-	-
CHEM125/126/130 or CHEM 210/211	5	5	-	-	-	-	-	-	-
PHYSICS 140/141; PHYSICS 240/ 241	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	-	-	4	4	-	-
<b>Program Subjects (30 hrs.)</b>									
EECS 200, Electrical Engineering Systems Design I	2	-	-	-	2	-	-	-	-
EECS 215, Introduction to Circuits	4	-	-	4	-	-	-	-	-
EECS 216, Signals and Systems	4	-	-	-	4	-	-	-	-
<sup>2</sup> EECS 230, Electromagnetics I	4	-	-	-	4	-	-	-	-
EECS 280, Programming and Intro. Data Structures	4	-	-	4	-	-	-	-	-
EECS 300, Electrical Engineering Systems Design II	3	-	-	-	-	-	3	-	-
<sup>3</sup> EECS 301, Probabilistic Methods in Engineering	4	-	-	-	-	4	-	-	-
<sup>4</sup> TCHNCLCM 300	1	-	-	-	-	1	-	-	-
<sup>5</sup> TCHNCLCM 496 and EECS 496	4	-	-	-	-	-	-	-	4
<b>Technical Electives (including PES) (32 hrs.)</b>									
<sup>7</sup> Flexible Technical Electives	9	-	-	-	-	3	-	3	3
<sup>8</sup> Upper Level EE Technical Electives	19	-	-	-	-	4	8	7	-
<sup>9</sup> Major Design Experience	4	-	-	-	-	-	-	-	4
<b>General Electives (11 hrs.)</b>									
	11	-	-	-	3	-	-	4	4
<b>Total</b>	<b>128</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>14</b>	<b>15</b>

<sup>1</sup> EE students are advised to take MATH 216 before MATH 215 as EECS 216 is to be preceded or accompanied by MATH 216.

<sup>2</sup> EE students are advised to take EECS 230 no later than the fifth semester.

<sup>3</sup> EE students are advised to take EECS 301 no later than the sixth semester. EE students may select only EEC S301 to fulfill this requirement. At most 4 credits of undergraduate probability may be applied towards the BSE-EE degree requirements. MATH 425 will not suffice as a pre-requisite for any class that requires EECS 301.

<sup>4</sup> Technical Communication: TCHNCLCM 300 must be taken before EECS 496.

<sup>5</sup> It is advised to take TCHNCLCM 496 and EECS 496 concurrently with the Major Design (MDE) course.

<sup>6</sup> Physical Electronics and Semiconductors Requirement (PES): Taking a selected EECS course will fulfill the physical electronics and semiconductors requirement. This course may be counted toward Upper Level EE Electives or Flexible Technical Electives.

<sup>7</sup> Flexible Technical Electives (FTE): The flexible technical elective requirement is fulfilled by selected courses in EECS, other engineering departments, biology, chemistry, math or physics. See the FTE section of this document for more information.

<sup>8</sup> Upper Level EE Technical Electives: At least 19 credits from the approved list. Courses must be chosen from at least two categories, and 7 of these credits must be at the 400-level or higher. Categories: (i) Biomedical; (ii) Circuits & Solid State; (iii) Communication, Signals & Systems; (iv) Computers; (v) Electromagnetics & Optics; (vi) Power.

<sup>9</sup> Major Design Experience: Pre-approved courses include EECS 411, 413, 425, 427, 43, 438, 452, 470, 473; other courses that are MDEs in other engineering programs may be acceptable with prior approval of the Chief Program Advisor. EE students pursuing a pre-approved non-EE MDE are required to complete 23 credits of Upper Level EE Electives. It is advised that students enroll concurrently in EECS 496, TCHNCLCM 496 and the MDE course.