

## Electrical Engineering Sample Schedule

	Total Credit Hours	Term:							
		1	2	3	4	5	6	7	8
<b>Subjects Required by All Programs (55 hours)<sup>3</sup></b>									
Mathematics 115, 116, and 215	12	4	4	4	-	-	-	-	-
Mathematics 216	4	-	-	-	4	-	-	-	-
Engineering 100, Introduction to Engineering	4	4	-	-	-	-	-	-	-
Engineering 101, Introduction to Computers	4	-	4	-	-	-	-	-	-
Chemistry 125/126 and 130 or Chemistry 210 and 211 <sup>1</sup>	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241 <sup>2</sup>	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	4	4	-	-	-	-
<b>Program Subjects (29 hours)</b>									
EECS 215, Introduction to Circuits	4	-	-	4	-	-	-	-	-
EECS 216, Introduction to Signals and Systems	4	-	-	-	4	-	-	-	-
EECS 230, Electromagnetics I	4	-	-	-	-	4	-	-	-
EECS 280, Programming and Elementary Data Structures	4	-	-	-	4	-	-	-	-
EECS 320, Introduction to Semiconductor Device Theory	4	-	-	-	-	4	-	-	-
EECS 301, Probabilistic Methods in Engineering <sup>4</sup>	4	-	-	-	-	-	4	-	-
TCHNCLCM 300 <sup>5</sup>	1	-	-	-	1	-	-	-	-
TCHNCLCM 496 and EECS 496 <sup>5</sup>	4	-	-	-	-	-	-	-	4
<b>Technical Electives (33 hours)</b>									
Flexible Technical Electives <sup>6</sup>	10	-	-	-	-	3	-	4	3
Upper-Level EE Technical Electives <sup>7</sup>	19	-	-	-	-	4	8	7	-
Major Design Experience <sup>8</sup>	4	-	-	-	-	-	-	-	4
<b>General Electives (11 hours)</b>									
<b>Total</b>	<b>128</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>14</b>

Revised: April-17

Candidates for the Bachelor of Science in Engineering in Electrical Engineering - B.S.E. in E.E. - must complete the program listed above. This sample schedule is an example of one leading to graduation in eight terms.

Notes:

C- Rule: Among science, engineering and mathematics courses, a grade of C- or below is considered unsatisfactory.

Students are limited to attempting each of the three 200-level courses (EECS 203, EECS 280, EECS 281) at most twice. An attempt includes, but is not limited to, a notation of any letter grade (A-F), withdraw (W), pass/fail (P/F), transfer (T), or incomplete (I) posted on the U-M transcript.

<sup>1</sup>If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another institution for Chemistry 130/125/126 you will have met the Chemistry Core Requirement for the College of Engineering.

<sup>2</sup>If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another institution for Physics 140/141 and 240/241 you will have met the Physics Core Requirement for the College of Engineering.

<sup>3</sup>EE students are advised to take MATH 216 before MATH 215 since EECS 216 is to be preceded or accompanied by MATH 216.

<sup>4</sup>EE students may select only EECS 301 to fulfill this requirement. No more than 4 credits of undergraduate probability may be applied toward EE program requirements. (Additional credits will appear as General Electives.)

<sup>5</sup>Technical Communications: TCHNCLCM 300 can be taken independently of any EECS course, but it is a prerequisite for TCHNCLCM 496. It is advisable to take TCHNCLCM 496 with a Major Design Experience (MDE) course.

<sup>6</sup>Flexible Technical Electives: The flexible technical elective requirement may be fulfilled by taking selected course in EECS, other engineering departments, biology, chemistry, economics, math, or physics. See the ECE Undergraduate Advising Office for the current list. All other courses must be

<sup>7</sup>Upper-Level EE Technical Electives: Minimum 19 credits. Courses must be chosen from at least two categories; at least 7 credits must be at the 400-level or higher. See the ECE Undergraduate Advising Office for the current list. Credit hours in excess of 19 can be applied toward FTE.

<sup>8</sup>Major Design Experience: Pre-approved courses are EECS 411, 413, 425, 427, 430, 438, 452, 470, 473; other courses that are MDEs in other engineering programs may be acceptable with prior approval of the EE Chief Program Advisor. EE students pursuing a pre-approved non-EE MDE are required to

<sup>9</sup>A maximum of 4 credits of EECS 499 may be applied to Technical Elective requirements and only in the area of Flexible Technical Electives. Anything beyond 4 credits will be applied toward General Electives.