

## Master of Science in Engineering

**Concentration:** Electrical Engineering

Version Date: July 17, 2007

**Contact:** Professor Mickey Cox

**Degree Codes:** ES MSE ENGR

**SCH Requirements:** Thesis option: 30 SCH; Practicum option: 36 SCH; Coursework-only option: 36 SCH

**Thesis Option:** Research & Thesis SCH toward degree: 6

**Practicum Option:** Practicum SCH toward degree: 3

**Coursework-only Option:** As described below.

Course Category	Number	Course Name	SCH
<b>Core Courses</b>	<i>Take <b>ENGR 501</b> and another course from this list</i>		6
	ENGR 501	Engineering Research Methods	3
	ENGR 541	Mathematical Methods for Engineering	3
	ENGR 592	Engineering Computational Methods	3
<b>Concentration Courses</b>	<i>Electrical Engineering concentration: Must take <u>at least three courses total</u> selected from at least <b>two</b> of the four groups below:</i>		9
	<b>Group A</b>	Controls (ELEN 572 or ELEN 557)	3
	<b>Group B</b>	Communications (ELEN 561 or ELEN 565)	3
	<b>Group C</b>	Microelectronics (ELEN 535, ELEN 537, or ELEN 538)	3
	<b>Group D</b>	Power Systems (ELEN 581, ELEN 582, or ELEN 557)	3

*Beyond this point, follow one of the three options below. A Plan of Study showing the option selected is due at the end of the first quarter of enrollment. Approval of the graduate advisor will be required to switch options or advisors at a later date.*

<b>COURSEWORK-ONLY OPTION</b>		
<b>Electives</b>	<i>5 courses approved by the Advisory Committee*</i>	15
<b>MATH/STAT</b>	One MATH and one STAT course	6
<b>TOTAL</b>		<b>36</b>

<b>THESIS OPTION</b>				<b>PRACTICUM OPTION</b>		
Course Category	Number	Course Name	SCH	Number	Course Name	SCH
<b>Other courses</b>	<i>3 courses approved by the Advisory Committee*</i>		9	<i>6 courses approved by the Advisory Committee*</i>		18
<b>Thesis or Practicum</b>	ELEN 551	Research & Thesis in EE	6	ELEN 555	Practicum in EE	3
<b>TOTAL</b>			<b>30</b>	<b>TOTAL</b>		<b>36</b>

\* The maximum number of variable credit Independent Study courses that can be applied towards the degree is 6 SCH.