ELECTRICAL ENGINEERING (M.S.)

Admission Requirements

Admission to these programs is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission). All applicants whose B.S. degree is not from an ABET-accredited college or university are required to submit additional pertinent information, including results of the general test of the Graduate Record Examination (GRE), publications, and/or inventions.

Students with B.S. degrees from selected science and engineering undergraduate programs not specifically related to this discipline may be admitted into the master's program after completing a sequence of undergraduate courses designed to prepare them for the graduate curriculum.

In the areas of electrical engineering and computer engineering the Master of Science degree is offered by this department under the following options:

**Plan A:** Thirty-two credits including an eight credit thesis.

**Plan C:** Thirty-two credits of course work.

For either plan, students must complete one of the following sets of core requirements related to a specialization: biomedical systems, communications and circuits, control systems, solid state devices, smart sensors, micro- and nano-technology, power systems, optical engineering.

All course work must be completed in accordance with the regulations of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations) and the College of Engineering (http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations). For detailed requirements in the various core areas, students should consult with their department advisors.

**Interdisciplinary Physics-ECE AGRADE Program (Accelerated Graduate Enrollment)**

Outstanding seniors in Physics (both Applied Physics option and Fundamental Physics option), who have completed at least 90 credits and have an overall GPA of at least 3.5, and major physics classes GPA at least 3.6, can apply to enter the cross-college AGRADE program between the Physics undergraduate program (College of Liberals Arts and Sciences) and Electrical Engineering (EE) Master's programs (College of Engineering). The AGRADE program allows students to apply up to 12 credits of selected graduate courses, taken as an undergraduate, towards a Master's degree in Electrical Engineering. The Physics courses that can be counted towards MS-EE degree include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 5340 &amp; PHY 5341</td>
<td>Optics and Optics Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHY 5620 &amp; PHY 5621</td>
<td>Electronics and Electrical Measurements and Electronics and Electrical Measurements Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHY 5100</td>
<td>Methods of Theoretical Physics I</td>
<td>3</td>
</tr>
</tbody>
</table>

This enables students to complete an undergraduate degree in Physics and a graduate degree in Electrical Engineering in just 5 years of full-time study. For more details, please contact the undergraduate Physics advisor in the Department of Physics and Astronomy, or the graduate advisor in the Department of Electrical and Computer Engineering.