Electrical Engineering M.S.E.E. (Thesis)

Degree Requirements: 30 Credit Hours

Admission Requirements

Regular

For regular admission to the Master of Science in Electrical Engineering (MSEE) degree program, the applicant must have:

1. Completed requirements for the Bachelor’s degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet the College of Graduate Studies English Proficiency requirements.
5. The Master of Science in Electrical Engineering program requires: a) a bachelor’s degree in electrical engineering, computer engineering, or related field; or b) permission of the Graduate Program Director.

Provisional

A student may be granted provisional admission based upon the recommendation of the Master of Science in Electrical Engineering Graduate Coordinator or department chair.

Non-Degree

Non-degree students are accepted on an individual basis as space is available.

Degree Requirements: 30 Credit Hours

(Thesis) ¹

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EENG 7330</td>
<td>Advanced Electromagnetics</td>
</tr>
<tr>
<td>EENG 7331</td>
<td>Advanced Digital Signal Processing</td>
</tr>
<tr>
<td>EENG 7332</td>
<td>Digital Control Systems</td>
</tr>
<tr>
<td>EENG 7333</td>
<td>Advanced Power Systems (Advanced Power Systems)</td>
</tr>
<tr>
<td>EENG 7530</td>
<td>Research in Electrical Engineering</td>
</tr>
</tbody>
</table>

Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EENG 7999</td>
<td>Thesis</td>
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</tbody>
</table>

Other Thesis Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Comprehensive Exam</td>
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</tbody>
</table>

Total Credit Hours

30

Thesis

Each candidate for the Master of Science in Electrical Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. Thesis credits must be completed over no less than two semesters. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an “editorial reader.” Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Electrical Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The thesis must be electronically submitted to the ETD site for format check by the ETD format check submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.


Accelerated Bachelor’s to Master’s (ABM) Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelor's degree program, and at least 30 unique credit hours are required for a Masters degree program. The MSEE-ABM program combines 130 hours from the BSEE program and 30 hours from the MSEE program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by 10 hours. The Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, MSEE-ABM students may share a maximum of 9 credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular

For regular admission to the Accelerated Bachelor's to Master's of Science in Electrical Engineering (ABM-MSEE) degree program, the applicant must:

1. Be a current Georgia Southern undergraduate student majoring in Electrical Engineering (EE).
2. Have completed at least 25 credit hours of undergraduate coursework in EE discipline including MATH 1441, MATH 2242, PHYS 2211K, PHYS 2212K, ENGR 1731, ENGR 1732, and ENGR 2332.
3. Have a 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the
program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

**ABM Degree Requirements: 30 Credit Hours (Non-Thesis)**

1. A student in the ABM program will be allowed to use up to 9 credits MFGGE 5000G level courses offered within the Electrical Engineering program in meeting the requirements of both a bachelor’s degree and a master’s degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of “B” or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BSEE and M.S.E.E. degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Electrical Engineering degree must be taken at or above the 6000 level.

<table>
<thead>
<tr>
<th>Credit Hours</th>
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</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>EENG 5540G Communication Systems w/Lab</td>
</tr>
<tr>
<td></td>
<td>EENG 7330 Advanced Electromagnetics</td>
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</tr>
<tr>
<td>6</td>
<td>EENG 7999 Thesis</td>
</tr>
</tbody>
</table>

**Other Non-Thesis Requirements**

- Comprehensive Exam

Total Credit Hours 30

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1. A minimum of 50% of courses for the Master of Science in Electrical Engineering degree must be taken at or above the 6000 level.
2. While EENG 5540G is 4 credit hours, only 3 credit hours will count toward fulfilling the graduate elective requirement. The remaining credit hour will be applied toward the undergraduate requirements.

**Advisement**

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