Texas A&M University

<table>
<thead>
<tr>
<th>Program:</th>
<th>Computer Engineering</th>
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<tbody>
<tr>
<td>Degree:</td>
<td>MS</td>
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<tr>
<td>Department:</td>
<td>Electrical and Computer Engineering</td>
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<tr>
<td>Contact Name:</td>
<td>Katie Bryan</td>
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<tr>
<td>Contact Phone:</td>
<td>845-7467</td>
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### Outcome
Master degree-program requirements, including theories, concepts, principles, and practice, and develop a coherent understanding of the subject matter through synthesis across courses and experiences.

#### Marketable Skills
- an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

### Outcome
Apply subject matter knowledge in a range of contexts to solve problems and make decisions.

#### Marketable Skills
- an ability to consistently identify what information is important for the solution of a given problem
- an ability to properly evaluate and interpret observed results

### Outcome
Use a variety of sources and evaluate multiple points of view to analyze and integrate information and to conduct critical, reasoned arguments.

#### Marketable Skills
- an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

### Outcome
Communicate effectively.

#### Marketable Skills
- an ability to communicate effectively, both orally and in writing, with a range of audiences
- Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.

### Outcome
Use appropriate technologies to communicate, collaborate, conduct research, and solve problems.

#### Marketable Skills
- an ability to use relevant technologies to perform research tasks, collaborate, and problem solve

### Outcome
Develop clear research plans and conduct valid, data-supported, theoretically
consistent, and institutionally appropriate research.

<table>
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<tr>
<th>Marketable Skills</th>
<th>Choose ethical courses of action in research and practice.</th>
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<tbody>
<tr>
<td>• an ability to develop meaningful investigation plans</td>
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<tr>
<td>• an ability to conduct data-supported and theoretically consistent research</td>
<td>• an ability to demonstrate professional and ethical responsibility in every aspect of research project</td>
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<td>• an ability to demonstrate professional responsibility, including timeliness in attending meetings, performing tasks in a timely manner, and treating others with professional respect</td>
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