

The M.S. degree learning outcomes are:

1. Demonstrate a strong understanding of mathematical, scientific, and engineering principles in the field
2. Demonstrate an ability to formulate, analyze, and **independently** solve advanced engineering problems
3. Apply the **relevant** scientific and technological advancements, techniques, and engineering tools to address these problems
4. Recognize and apply principles of ethical and professional conduct

Current version in guide (incorrect)

1. Demonstrate a strong understanding of mathematical, scientific, and engineering principles in the field.
 2. Demonstrate an ability to formulate, analyze, and solve advanced engineering problems.
 3. Demonstrate creative, independent problem solving skills.
 4. Apply the latest scientific and technological advancements, advanced techniques, and modern engineering tools to these problems.
 5. Recognize and apply principles of ethical and professional conduct.
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The Ph.D. degree learning outcomes are:

1. **Demonstrate an extraordinary, deep understanding of mathematical, scientific, and engineering principles in the field**
2. Demonstrate an ability to **formulate, analyze, and independently solve advanced engineering problems**
3. **Apply the relevant scientific and technological advancements, techniques, and engineering tools to address these problems**
4. **Recognize and apply principles** of ethical and professional conduct
5. Demonstrate an ability to synthesize knowledge from a subset of the biological, physical, and/or social sciences to help frame problems critical to the future of their discipline
6. **Demonstrate an ability to** conduct original research and communicate it to their peers

Current version in guide (incorrect)

1. Demonstrate an ability to synthesize knowledge from a subset of the biological, physical, and social sciences to help frame problems critical to the future of their discipline.
2. Conduct original research.
3. Demonstrate an ability to create new knowledge and communicate it to their peers.
4. Fosters ethical and professional conduct.