BIOENGINEERING, MS

for the degree of Master of Science in Bioengineering

Thesis Option

1. Ability to apply quantitative skills and engineering principles to propose novel and practical solutions to medical/human health problems
2. Understanding of professional and ethical responsibilities
3. Ability to communicate scientific problems and solutions, as well as their impact, effectively to a diverse audience and stakeholders, both orally and in writing
4. Demonstrate moderate technical mastery in chosen research area, shown by the ability to identify an important scientific problem, formulate a hypothesis, and design experiments to conduct research and data analysis to test the hypothesis. The student should also be able to formulate alternatives.
5. Develop effective leadership skills in order to foster the ability to conduct collaborative research and work with a diverse team

Non-Thesis Option

1. Ability to apply quantitative skills and engineering principles to propose novel and practical solutions to medical/human health problems
2. Understanding of professional and ethical responsibilities
3. Ability to communicate scientific problems and solutions, as well as their impact, effectively to a diverse audience and stakeholders, both orally and in writing
4. Demonstrate moderate conceptual mastery in chosen research area, with the capability of expanding it into a future research project in preparation for an industry career or PhD degree
5. Develop effective leadership skills in order to foster the ability to conduct collaborative research and work with a diverse team