Learning Outcomes for the degree of Doctor of Philosophy in Theoretical & Applied Mechanics

Illinois MechSE TAM graduates will have:

1. A thorough understanding of the fundamentals of the engineering disciplines, namely, solid mechanics, fluid mechanics, and applied mathematics (core requirements). [MS/PhD]
2. A broad understanding of the various foundations of the engineering disciplines, including computational mechanics, mechanics of materials, biomechanics, dynamics, and nanomechanics (in the PhD program, breadth requirements). [MS/PhD]
3. Ability to identify relevant research subjects, outline strategies of inquiry, and demonstrate potential to bring the relevant research to completion. [MS/PhD]
4. Ability to communicate research results to scientific audience in conferences. [MS/PhD]
5. Ability to document research outcomes comprehensively for publication. [MS/PhD]