

STUDENT LEARNING OUTCOMES

Professional Science Masters

Industrial Mathematics

Student Outcomes and Competencies – Student Learning Goals

Student outcomes will be assessed in four areas, each of which contributes to the philosophical objective of the Professional Science Master's (PSM) program in Industrial Mathematics:

1. Students will integrate and synthesize mathematical and statistical concepts central to the study of Industrial Mathematics. They will know how to properly use each individual technical mathematical and statistical tool in their metaphoric toolbox.
2. Students will possess a broad range of methodological skills that are relevant to business applications of the mathematical or statistical application in Industrial Mathematics. They will know how to choose the suitable mathematical or statistical procedure to match the need in industry. They will learn to provide a fitting solution by integrating feasibility factors, such as the cost to the business and time to complete the technical analysis of their chosen method. They will learn how to choose the appropriate tool from their toolbox.
3. Students will express themselves clearly, effectively, and professionally, both orally and in writing.
4. Students will function and interface effectively in real world business and industrial settings where mathematical and statistical skills are required.