Learning Outcomes (for all Master of Engineering Fields)

Listed below are five Learning Outcomes that are common objectives of all Master of Engineering degree programs offered by graduate fields at Cornell University.

Every field should strive to have at least one mechanism for measuring the extent to which each Learning Outcome is achieved by its MEng students. These mechanisms, called “Assessment Tools,” will vary from field to field, as will the frequency with which they are exercised.

Every field should also strive to develop a process for using Assessment Tool feedback to improve the MEng program and the extent to which the Learning Outcomes are achieved.

1. Mastery and Application of Core Disciplinary Knowledge
   
   Potential Assessment Tools:
   • Milestone Course Deliverables (Reports, Presentations, Software, etc.)
   • Project Advisor Evaluations
   • Project Sponsor Evaluations

2. Problem Formulation and Organization and Planning of the Solution Process
   
   Potential Assessment Tools:
   • Milestone Course Deliverables (Reports, Presentations, Software, etc.)
   • Project Advisor Evaluations
   • Project Sponsor Evaluations
   • Student Peer Evaluations
   • Student Exit Surveys/Interviews

3. Collaborative Problem Solving and Issue Resolution
   
   Potential Assessment Tools:
   • Project Advisor Evaluations
   • Project Sponsor Evaluations
   • Student Peer Evaluations
   • Student Exit Surveys/Interviews

4. Communication of Knowledge, Ideas, and Decision Justification
   
   Potential Assessment Tools:
   • Milestone Course Deliverables (Reports, Presentations, Software, etc.)
   • Project Advisor Evaluations
   • Project Sponsor Evaluations

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• Student Peer Evaluations
• Student Exit Surveys/Interviews
• Job Placement Statistics
• Recruiter Feedback
• Alumni Feedback and/or Involvement

5. Self-Directed Learning and Professional Development

Potential Assessment Tools:
• Project Advisor Evaluations
• Student Peer Evaluations
• Student Exit Surveys/Interviews
• Job Placement Statistics
• Recruiter Feedback
• Alumni Feedback and/or Involvement