

**College of Applied Sciences**  
**Program Goals and Student Learning Outcomes**  
**As of 07/21/2006**

**Department: Kimmel School of Construction Management and Engineering Technology**  
**Program: M.S. Technology**

**Program Goals:**

1. Develop graduates who are able to design, develop, evaluate, implement and manage systems that integrate people, materials, information, equipment and processes.
2. Develop graduates who are able to immediately contribute to industrial service and/or government organizations.
3. Develop graduates who are prepared for the technical workforce.
4. Develop graduates who value professional development through lifelong learning.
5. Develop graduates who have applied knowledge in statistics, design of experiments, quality and management of technical projects.

**Student Learning Outcomes:**

1. Apply math, science and engineering principles to identify, formulate, analyze, and solve technical problems using appropriate techniques, skills and tools necessary for applied engineering and technical practice.
2. Design and conduct experiments, as well as analyze and interpret data to solve technical problems.
3. Function on multi-disciplinary teams to develop team problem solving, project/time management and communication skills.
4. Working knowledge of professional and ethical responsibility.
5. Communicate effectively through written, oral and graphical means.
6. Knowledge of contemporary issues and the impact of technical solutions in a global and societal context.
7. Recognize the need for, and be able to engage in, life-long learning through continuing education and training and professional development activities.
8. Design, develop, implement, improved and manage integrated systems processes that includes people, materials, information and equipment to meet desired needs.
9. Integrate systems using appropriate analytical and experimental practices.
10. Produce graduates who have direct applied knowledge in statistics, design of experiments, quality and technical project management.
11. Demonstrate gained knowledge through an applied directed project.