Program Information

College:	Southern Poly. College of Eng. & Eng. Technology
Department:	Systems and Industrial Engineering
Program:	Systems Engineering, MSSENG

Program Student Learning Outcomes

Upon completion of this degree from KSU, students will be able to:

- Develop, deploy and manage systems; including developing the mission, identifying the system and subsystem level requirements, and verifying that requirements are met.
- Use simulation, optimization and decision-making techniques to evaluate and select alternative system architectures.
- Understand and apply the basic phases of system development and how those phases interface with the project management process and the system life-cycle.
- Identify, assess, manage, and mitigate system and process risks.
- Support the development of the functional, operational, physical, and interface architectures of systems with modeling tools and methods.
- Develop user-centered designs that integrate the requirements for humans in systems and interfaces.
- Manage the technical, administrative, budget and scheduling aspects of a project in conjunction with the human aspect of system development.
- Communicate effectively, both in writing and speaking.
- Recognize the need for and engage in lifelong learning.
- Describe the impact of Systems Engineering solutions in a global, societal, and ethical context.