INDUSTRIAL & MANAGEMENT SYSTEMS ENGINEERING (ISMG)

**ISMG 8066 DECISION AND RISK ANALYSIS (3 credits)**
**Prerequisite(s)/Corequisite(s):** ISMG 2060; STAT 3800 or STAT 8805 or ISMG 3210

**ISMG 8126 OCCUPATIONAL SAFETY - A SYSTEMS ANALYSIS (3 credits)**
**Prerequisite(s)/Corequisite(s):** ISMG 3210

**ISMG 8286 STOCHASTIC OPERATIONS RESEARCH MODELS (3 credits)**
Techniques for understanding and predicting stochastic system behavior. Probability, Markov chains, queueing analysis, dynamic programming, and reliability.
**Prerequisite(s)/Corequisite(s):** ISMG 3210

**ISMG 8600 PACKAGING ENGINEERING (3 credits)**
Investigation of packaging processes, materials, equipment and design. Container design, material handling, storage, packing and environmental regulations, and material selection.
**Prerequisite(s)/Corequisite(s):** ISME206 and ISME321 and ENGM373 (UNL)

**ISMG 8760 COMPUTERS IN MANUFACTURING (3 credits)**
Interfacing issues; data acquisition; A/D-D/A conversions; sensors and sensor-based computing; control systems and adaptive control; and real time control of mechanical devices.
**Prerequisite(s)/Corequisite(s):** ELEC2310

**ISMG 8770 ROBOTICS (3 credits)**
Basic robotics technology; application in manufacturing, manipulators and mechanical design; programming languages; intelligence and control.
**Prerequisite(s)/Corequisite(s):** IMSE375

**ISMG 8986 LABORATORY INVESTIGATION (1-6 credits)**
Investigation and written report of research into a specific problem in any area of industrial or management systems engineering.