Industrial Engineering (INEG)

Faculty
Richard Cassidy, Professor
Justin Robert Chimka, Associate Professor
John R. English, Professor, Irma F. and Raymond F. Giffels Endowed Chair in Engineering
Earnest W. Fant, Associate Professor
Russell D. Meller, Professor, James M. Hefley and Marie G. Hefley Professor of Logistics and Entrepreneurship
Ashlea R. Milburn, Assistant Professor
Heather Nachtmann, Professor
Kim LaScola Needy, Professor, 21st Century Professorship in Engineering
Edward A. Pohl, Professor
Chase E. Rainwater, Assistant Professor
Sarah E. Root, Assistant Professor
Manuel D. Rossetti, Professor, John L. Imhoff Endowed Chair
Kelly M. Sullivan, Assistant Professor
John A. White Jr., Distinguished Professor, Chancellor Emeritus
Shengfan Zhang, Assistant Professor

Kim Needy
Department Head
4207 Bell Engineering Center
479-575-6029
http://www.ineg.uark.edu/

Degrees Conferred:
M.S.I.E. (INEG)
M.S.O.M. (OPMG) (See Operations Management)
M.S.E. in Engineering (ENGR) (See Engineering)
Ph.D. in Engineering (ENGR) (See Engineering)

Areas of Research Activity: A critical component of all graduate-level work is scholarly activity through the completion of substantive research. These activities take place through the completion of doctoral dissertations, master’s theses, and master’s research projects. The department encourages the completion of master’s theses, particularly for those students holding assistantship appointments.

Research areas of concentration at both the master’s and doctoral levels include the following: artificial intelligence/expert systems, computer assisted processes, computer integrated manufacturing, financial engineering, engineering administration, facilities analysis/design, human factors/ergonomics, manufacturing automation/robotics, material handling, operations research, productivity measurement/analysis, production control/scheduling, quality control/reliability, and health care/transportation logistics.

Primary Areas of Faculty Research: Automation and robotics; economic decision analysis; electronics manufacturing; engineering and quality management; ergonomics, human factors and safety; health care; manufacturing and transportation logistics; material handling and warehousing systems; operations research; quality, reliability, maintainability; and scheduling.

Application to the Graduate Program: Follow the procedures outlined by the Graduate School. To receive full consideration for assistantships and other financial aid, applications must be received before February 1.

Prerequisites to the M.S.I.E. Degree Program:
1. There are no prerequisites for students with an undergraduate degree from an ABET-accredited industrial engineering program.
2. For students with a degree other than an ABET-accredited industrial engineering degree, a number of prerequisite courses are required. These are presented in a departmental manual for graduate students that should be obtained by all students entering programs at the graduate level. The graduate handbook is available online at the Industrial Engineering Web site listed above.

Requirements for the Master of Science in Industrial Engineering Degree: In addition to the requirements of the Graduate School, the following departmental requirements must be satisfied by candidates for the M.S.I.E. degree:
1. Candidates who present a thesis are required to complete a minimum of 24 graduate credit hours plus six hours of INEG 600V Master’s Thesis.
2. Candidates who present a project are required to complete a minimum of 27 graduate credit hours plus three hours of INEG 513V Master’s Research Project and Report.
3. Candidates who do not present either a thesis or project are required to complete 30 semester hours of course work.
4. Candidates must successfully complete a master’s oral examination that is conducted by the candidate’s committee.
5. Courses Taken for Graduate Credit: A limited number of 4000-level courses may be taken for graduate credit as specified by the department’s Handbook for Advanced Degrees.
6. Attendance at INEG graduate seminar is required of all graduate students in Industrial Engineering.