"I could, and still do, apply the things I learned in class on a daily basis at my job as an engineer."

-John Zelena B.S. '04 M.S. '08

Wilkes University

FOR MORE INFORMATION, CONTACT:

Kristin Donati

Graduate Admissions

(800) WILKES-U Ext. 3338

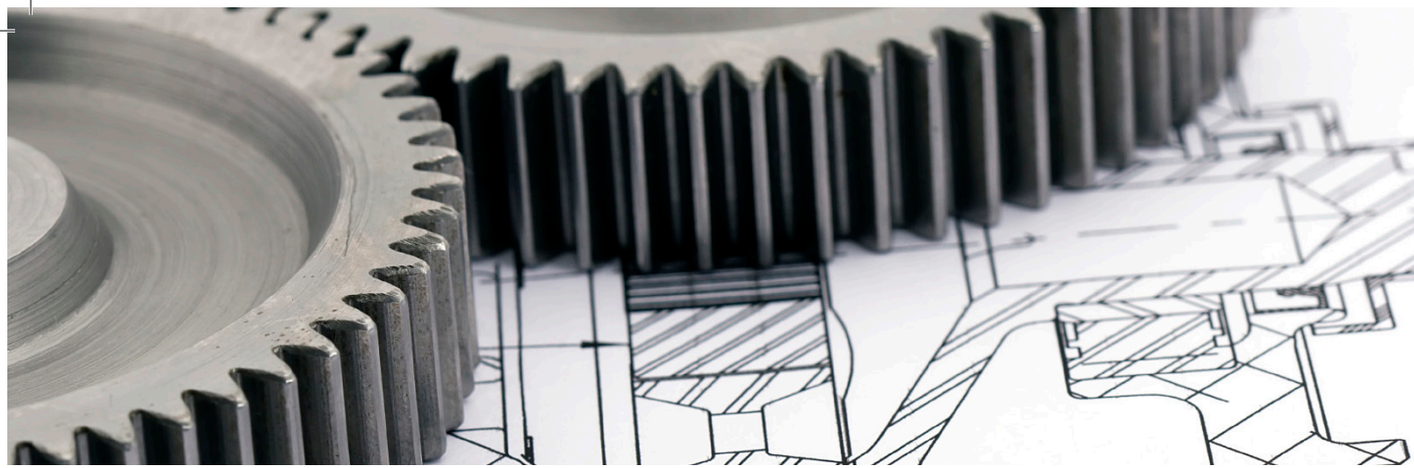
(570) 408-3338

kristin.donati@wilkes.edu

www.wilkes.edu/GraduateStudies

Master of Science Degree

Mechanical Engineering



Hands-on Engineering Experience

Engineers looking to advance their careers can earn their master's degree in Mechanical Engineering from Wilkes University.

The mechanical engineering master's program teaches students advanced theory and provides hands-on technical experience in the areas of robotics and automation, mechatronics, energy, mechanical, thermal and fluid systems; and materials, manufacturing and product development.

Students can choose an area of focus that enhances knowledge in their current field or allows them to explore a new specialty.

THE MECHANICAL ENGINEERING PROGRAM OFFERS:

- Immediate hands-on experience;
- Interactive classes and state-of-the-art labs;
- Project-based courses;
- A limited number of teaching assistantships for qualified full-time students.

WILKES OFFERS STATE-OF-THE-ART LABS IN:

- mechatronics
- robotics and automation
- additive manufacturing
- fluid mechanics
- heat transfer
- mechanical design
- vibrations
- nanotechnology, micro-electromechanical systems and thin films

PROGRAM OUTLINE

The mechanical engineering master's program requires 30 credits of graduate-level course work. The program includes 15 credits of mandatory core courses and 9 to 12 credits of electives. Graduate students are strongly advised to select a 6-credit thesis option to complete their graduate course work. However, they may choose a 3-credit project option.

ADMISSION REQUIREMENTS

APPLICANTS MUST SUBMIT:

- An online application at *www.wilkes.edu/applyonline*
- Two letters of reference
- Official undergraduate transcripts

International students must also submit a statement of financial guarantee, a WES evaluation of their transcript, a Test of English as a Foreign Language (TOEFL) and/or International English Language Testing System (IELTS) score, and a copy of the photo page of their passport, in addition to the previously listed requirements.

REQUIRED COURSES AND ELECTIVE OPTIONS

ALL COURSES ARE 3 CREDITS UNLESS OTHERWISE NOTED.

REQUIRED COURSES (15 credits)

- **ME 401** - Applied Engineering Analysis
- **ME 411** - Product Development
- **ME 427** - Transport Phenomena
- **ME 436** - Solid Mechanics
- **ME 442** - Materials Science

ELECTIVE COURSES (15 credits)

- **ME 451** - Mechatronics
- **ME 452** - Nanotechnology
- **ME 414** - Inverse Problems in Mechanics
- **ME 417** - Robotics
- **ME 432** - Vibration of Dynamic Systems
- **ME 480** - Advanced CADD
- **ME 498** - Advanced Topics in Mechanical Engineering such as PLC, Interactive Robotics, Gas Turbines, and Nanomaterials
- **ME 599** - Thesis/Project *(6 or 3 credits)*