College of Science and Engineering

Dean: Dr. William B. Hudson

Mission
It is the mission of the College of Science and Engineering to provide challenging academic programs that promote understanding of principles in basic and applied sciences and mathematics, foster intellectual curiosity and critical thinking, develop skill in research, information technology, and engineering design, and facilitate student professional growth and development. The College cultivates faculty-student mentoring to promote application of advanced science and engineering concepts to help solve "real-world" problems and to encourage students to participate in leadership roles in their communities and in Northeastern Pennsylvania and to sustain individual initiative and lifelong learning.

Vision
Academic programs of the College of Science and Engineering will build on historic strengths of a traditional Wilkes education, revitalized through a new core and participatory strategic planning. Programs of the College emphasize experiential "hands-on" learning, teamwork in laboratories and class projects, state-of-the-art technology, individualized teacher-student mentoring, and a capstone senior research or design project, including cooperative education opportunities in the regional business community. These practical experiences, integrated with our diverse and innovative curricula, enhance our emphasis on core values of academic excellence and student-centered learning. The College seeks to foster agility and technical innovation in response to a rapidly changing marketplace and global economy, competition for quality students in higher education, changing population demographics (traditional students vs. adult learners), and increased requirements of employers for science and engineering graduates. The College will play an integral role in the overall success of the University’s strategic goals and will expand its service section to the Mid-Atlantic region.

Programs
Our best students and their professional career achievements illustrate the power of a cooperative and supportive learning environment that cuts across individual courses, programs, departments, and curricula. Individual faculty, departments, and programs of the College have demonstrated academic excellence and success in partnering with industry, working with local community groups and local government, conducting research, serving on national panels and professional organizations, providing student internships, and fostering student-centered research and cooperative education. The College hosts a number of state-of-the-art laboratory facilities, often equipped through faculty grants and research projects that involve undergraduate students. A strong connection to our region enhances cultural, academic, and industrial opportunities for our students. National professional boards have accredited engineering programs within the College and various student chapters of professional organizations are active on campus. Our programs offer diverse opportunities for technical careers in education, industry, and government. The College includes the following academic departments and divisions:

- Air and Space Studies
- Biology & Health Sciences
- Chemistry & Biochemistry
- Electrical Engineering & Physics
- Environmental Engineering and Earth Sciences
- Mathematics & Computer Science
- Mechanical Engineering and Engineering Management

Bachelor's and major programs of study offered in the College are as follows:

- Applied and Engineering Sciences
- Biochemistry
- Biology
- Chemistry
- Computer Information Systems
- Computer Science
- Earth and Environmental Sciences
- Electrical Engineering
- Engineering Management
- Environmental Engineering
- Geology
- Mathematics
- Mechanical Engineering
- Medical Technology
- Physics
College of Science and Engineering

Accreditation

- The Bachelor of Science in Mechanical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET. (www.abet.org)
- The Bachelor of Science in Electrical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET. (www.abet.org)
- The Bachelor of Science in Environmental Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET. (www.abet.org)