VISION
To be a premier engineering college known for improving quality of life through education, innovation and entrepreneurship.

OVERVIEW
Located in the heart of the Motor City, our engineering curriculum leads the nation in game-changing fields like electric-drive vehicle technology and alternative energy. And, a history rich in engineering marvels — like the mechanical heart pump that made possible the world’s first successful open heart surgery — is just one reason why Wayne State’s biomedical engineering program is one of the most respected programs in the country, known for pioneering impact biomechanics.

Our 130 faculty experts engineer the physical world at all levels — from nanoscale biomedical innovations to colossal manufacturing plants. On campus and in the community at large, we work toward improving the quality of life every day.

DEPARTMENTS
The College of Engineering offers bachelor’s, master’s and doctoral degrees in each of its departments.
- Biomedical Engineering
- Chemical Engineering and Materials Science
- Civil and Environmental Engineering
- Computer Science
- Electrical and Computer Engineering
- Engineering Technology
- Industrial and Systems Engineering
- Mechanical Engineering

MULTI-DISCIPLINARY DEGREE PROGRAMS
- Alternative Energy Technology
- EDGE Engineering Entrepreneurship Certificate
- Electric-Drive Vehicle Engineering
- Executive Ph.D. in Global Engineering
- Sustainable Engineering
- Lean Six Sigma
- Injury Biomechanics
- Bioinformatics and Computational Biology

RESEARCH AREAS OF EXCELLENCE
- Health care engineering
- Energy solutions
- Materials and manufacturing
- Big data and business analytics
- Automobile safety
- Engine optimization
- Transportation

HIGH-IMPACT PRACTICES OF STUDENT SUCCESS
- Hands-on experience: Our students apply lessons learned in the classroom to team-based simulations, learning how to succeed in a safe, productive environment.
- Global perspective: WSU engineers prepare to navigate their way in diverse cultures around the globe through research and study abroad opportunities.
- Undergraduate research: Our students tackle challenges through multidisciplinary and translational research, learning principles and theories in the classroom and applying that knowledge in the laboratory.
- Co-ops and internships: Students can gain real-world experience with well-known global corporations, some of which are located right down the street.
- Community engagement: WSU engineers play a pivotal role in revitalizing and sustaining their communities through research and innovation.
COLLEGE OF ENGINEERING OVERVIEW

COLLEGE FACTS AND FIGURES

- Established in 1933
- A leader in the practical integration of education and research
- A key player in Michigan’s transition from a manufacturing economy to a strong, effective and diversified high tech global marketplace
- One of only 24 U.S. PACE institutions
- First in the nation to launch an Alternative Energy Technology master’s degree and certificate (2006)
- Home to the nation’s first Electric-drive Vehicle Engineering Program
- A founding member – and the only represented university in Michigan – of the Department of Defense Systems Engineering Research Center (SERC)
- Ranked in the top 30 percent of engineering schools and colleges nationwide in research expenditures (NSF)
- A pioneering institution in biomedical engineering – ranked in the top 20 percent in research expenditures of those engineering schools and colleges with this area of study (NSF)
- One of only 16 universities in North America – and the only institution in Michigan – competing in EcoCAR3
- A promoter of entrepreneurship among students, faculty and alumni, offering resources and connections to a vast number of business incubators

2015 DEGREES AWARDED

- The College of Engineering awarded a total of 244 bachelor’s degrees, 8 graduate certificates, 359 master’s degrees and 46 doctoral degrees in 2015.

OUTREACH PROGRAMS

- Detroit Area Pre-College Engineering Program (DAPCEP)
- C2 Pipeline
- EOS
- Michigan Council of Women in Technology (MCWT) Camp Infinity
- WSU Camp Engineering
- Gaining Options-Girls Investigate Real Life (GO-GIRL)
- Junior Science and Humanities Symposium
- WSU Ford Warrior STEAM Saturday Challenge

ALUMNI STATISTICS

- Nearly 25,000 living alumni
- Alumni in 48 countries around the world
- Alumni in all 50 states and Washington, D.C.
- Approximately 16,000 alumni living, working and playing in Michigan

FALL 2016 ADMISSIONS STATISTICS

LEVEL
- Total enrollment: 3,798 students
- Undergraduate: 2,208 students (58 percent)
- Graduate: 1,590 students (41 percent)

FULL-/PART-TIME
- Full-time: 2,813 students (74 percent)
- Part-time: 985 students (26 percent)

HEADCOUNT BY RESIDENCY AND LEVEL
- In-state undergraduate: 2,077 students
- In-state graduate: 418 students
- Out-of-state undergraduate: 131 students
- Out-of-state graduate: 1,172 students

HEADCOUNT BY CLASS LEVEL
- Freshman: 483
- Sophomore: 369
- Junior: 449
- Senior: 907
- Master’s: 1,292
- Doctorate: 298

HEADCOUNT BY GENDER
- Male: 3,057 (80 percent)
- Female: 741 (20 percent)

HEADCOUNT BY ETHNICITY
- Non-resident alien: 1,291
- Race and ethnicity unknown: 96
- Hispanic: 115
- Asian: 372
- African American: 283
- White: 1,562
- Two or more races: 79