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 111 full-time, tenure-track 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.
- Department of Biomedical Engineering
- Department of Chemical Engineering and Materials Science
- Department of Civil and Environmental Engineering
- Department of Computer Science
- Department of Electrical and Computer Engineering
- Department of Industrial and Systems Engineering
- Department of Mechanical Engineering
- Engineering Technology Division

MULTI-DISCIPLINARY DEGREE PROGRAMS
- Alternative Energy Technology Program
- EDGE Engineering Entrepreneurship Certificate Program
- Electric-Drive Vehicle Engineering Program
- Executive PhD 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

FIVE PILLARS TO A WSU COLLEGE OF ENGINEERING EDUCATION
- Experiential learning through internships and co-ops: Our students start working in the field before they graduate with a large number of internship opportunities.
- Practical experience: Our students break classroom boundaries by building concrete canoes, steel bridges, hybrid vehicles and more.
- Scholarships: The college awards up to 100 engineering scholarships annually. The university offers many more.
- Study abroad: Our students graduate with the global perspective employers love.
- Undergraduate research: Our students join expert faculty in research from their very first year.
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 15 universities in North America – and the only institution in Michigan – competing in EcoCAR2
▼ A promoter of entrepreneurship among students, faculty and alumni, offering resources and connections to a vast number of business incubators
▼ Home to the Wayne State ROTC

2012-13 DEGREES AWARDED
▼ The College of Engineering awarded a total of 177 bachelor’s degrees, 19 graduate certificates, 249 master’s degrees and 50 doctoral degrees in December 2012, May 2013 and August 2013 combined.

OUTREACH PROGRAMS
▼ Detroit Area Pre-College Engineering Program (DAPCEP)
▼ Michigan-Louis Stokes Alliance for Minority Participation (MI-LSAMP) Program
▼ Engineering Bridge Program
▼ Focus: HOPE
▼ Summer youth camp programs
▼ Gaining Options-Girls Investigate Real Life (GO-GIRL)
▼ Construction to benefit Gleaners Community Food Bank of Southeastern Michigan
▼ Yes Expol (engaging Michigan youth in STEM)

ALUMNI STATISTICS
▼ 23,433 living alumni
▼ 973 international alumni (based on preferred mailing address)
▼ Alumni in 48 countries around the world
▼ Alumni in all 50 states and Washington, D.C.
▼ 16,370 alumni living, working and playing in Michigan

FALL 2013 ADMISSIONS STATISTICS

LEVEL
Total enrollment ▼ 2,653 students
Undergraduate ▼ 1,634 students (62 percent)
Graduate ▼ 1,019 students (38 percent)

FULL-/PART-TIME
Full-time ▼ 1,788 students (67 percent)
Part-time ▼ 865 students (33 percent)

HEADCOUNT BY RESIDENCY AND LEVEL
In-state undergraduate ▼ 1,531 students
In-state graduate ▼ 389 students
Out-of-state undergraduate ▼ 103 students
Out-of-state graduate ▼ 630 students

HEADCOUNT BY CLASS LEVEL
▼ Freshman: 324
▼ Sophomore: 278
▼ Junior: 392
▼ Senior: 630
▼ Undergraduate Non-Degree: 10
▼ Master’s: 698
▼ Doctorate: 314
▼ Graduate Non-Degree: 7

HEADCOUNT BY GENDER
▼ Male: 1,946 (81 percent)
▼ Female: 509 (19 percent)

HEADCOUNT BY ETHNICITY
▼ Non-resident alien: 664
▼ Race and ethnicity unknown: 157
▼ Hispanics of any race: 66
▼ American Indian/Alaska Native: 4
▼ Asian: 263
▼ Black or African American: 286
▼ Native Hawaiian or other Pacific Islander: 3
▼ White: 1,173
▼ Two or more races: 37