

Engineering Department Facts

Industrial Engineering:

1. Easily get a business minor: if you enroll in the correct electives it only takes one more class to get your business minor.
2. Easily get a statistics minor as well
3. Can specialize in: ergonomics, manufacturing (quality), operations research, scheduling logistics.
4. Very high job placement rate: over 90%.
5. Integrated BS/MS degree:
 - a. Only takes about one extra year (number of credit hours?).
 - b. Graduate classes are integrated into undergraduate classes.
6. There is a permanent family atmosphere and CANDY BOWL IN DORRIS'S OFFICE!
7. Dean English, Assistant Dean Satzler, and Mrs. Satzler are IE's.

Civil Engineering:

1. Definition: the design and upkeep of the world's infrastructure.
2. Design actual projects around Manhattan:
 - a. Redesign entry to Aggieville.
 - b. Design Riley County Police Department.
 - c. Design shopping center on 3rd street.
3. One of few facilities in the nation to test full-size concrete and steel beams at a university level.
4. Competition groups:
 - a. Concrete canoe.
 - b. Steel bridge.
 - c. One of the best ASCE groups with high enrollment as voted on by other ASCE groups.

Chemical Engineering:

1. President Kirk Schultz earned a degree in chemical engineering.
2. Chem-E car:
 - a. Often qualifies for nationals.
 - b. Won "Most Creative Design" in 2011.
3. AIChE has won top chapter 15 out of the past 16 years.
4. Has a distillation column: could say 1 out of 24 universities if we were certain on that statistic?
5. Over 1 million dollar grant from Mary Rezac to renovate the Chem-E graduate labs.

Biological Systems Engineering:

1. Three design teams: robotics, fountain wars, and quarter-scale tractor team. All three won their international competitions in 2011.
2. More BSE students go to medical school than any other engineering major. 95% of our BSE applicants are accepted into medical school.

3. Three options: biological, environmental, and machinery systems.
4. Smallest department in the College of Engineering.
5. Integrated BS/MS program.

Mechanical Engineering:

1. About 90% Fundamentals of Engineering pass rate.
2. Two department student labs.
3. Nuclear Engineering option.
4. On-campus nuclear reactor.
5. Design teams include: formula car, mini baja, aero-design team, and unmanned aerial vehicle team.
6. Many professors received grants for research:
 - a. Dr. Bech received grants from NASA
 - b. Dr. McGregor received a grant from the DoD for the clean room in the SMART labs.
7. The largest department in the College of Engineering.
8. Wind tunnel and carbon fiber lab.
9. Professional organizations: Society of Automotive Engineers, American Society of Mechanical Engineers, American Nuclear Society.

Electrical and Computer Engineering:

1. The robotics team traveled to San Diego and took 6th in the national competition.
2. We currently have two NASA projects in the department.
3. Noel Schultz, KSU's first lady, is an ECE professor and the current president of the Institute of Electrical and Electronics Engineers power society.
4. We have student employment opportunities with the Electronics Design Lab and the Semiconductor, Materials, and Radiological Technologies Lab.
5. Eta Kappa Nue, the ECE honor society, has received outstanding chapter of the year for the past two years.
6. ECE includes a biological option.

Architectural Engineering:

1. The difference between an Architecture degree and an Architectural Engineering degree is: architectural engineers make buildings function by designing the inner workings and structure and architects design the aesthetics of buildings.
2. Organizations to get involved with:
 - a. Architectural Engineering Institute – organizes all events in the department such as seminars, picnics, trivia nights.
 - b. Illuminating Engineering Society and the American Society of Heating, Refrigeration, and Air Conditioning – provides opportunities to learn more about lighting, acoustics, heating ventilation and cooling, and can introduce you to professionals in the field
3. Options: structural, mep(?), fire protection, lighting, and construction science.

4. Professional atmosphere to prepare students for the workplace. The department is recognized by employers for professionalism.
5. Four seminars per semester where professionals present about their workplaces and projects.
6. Integrated BS/MS program.