Why Engineering @ CBU?

An engineering degree from CBU will provide:

- Preparation for employment in a high demand job market
- Opportunities to earn one of the highest starting salaries for a 4 year degree
- A connection to a 50+ year legacy in engineering education

CBU offers exceptional return on investment:

- Ranked Number 1 in the “Best Lifetime Return on Investment” for colleges in Tennessee by AffordableCollegesOnline.org for 2013
- 91% of our full-time students receive financial assistance

Located in the heart of Midtown Memphis:

- Less than 2 miles from Overton Park, a 342-acre public park in Midtown Memphis
- Walking distance to the Cooper-Young and Overton Square Arts & Entertainment Districts

Bottom line: CBU graduates succeed. More than 90 percent of our recent class was employed or attending graduate school within six months of graduation. In fact, more than 80 percent already had jobs or placement in graduate schools when they crossed the stage at graduation.
WHAT IS MECHANICAL ENGINEERING?
Mechanical engineering is the broadest engineering discipline with applications in nearly every industry that involves product development, process control, and energy generation/consumption. Using the principles of mechanics and thermal energy, mechanical engineers apply their knowledge of design, manufacturing, and operational processes to improve the world around us. Their approach to research often begins with the same questions – “How does this work? Why?” and “How can I make it better?”

CAREERS IN MECHANICAL ENGINEERING
As a mechanical engineer, you have many subspecialty areas to choose from:

- **Aerospace & Defense** involves the development of commercial and military aircraft and spacecraft.
- **Automotive** concerns the development and improvement of transportation systems.
- **Bioengineering** includes the development and improvement of medical and surgical devices and procedures.
- **Manufacturing & Processing** involves the production of physical goods.
- **Fluids Engineering** focuses on pumps, turbines, compressors, pipelines, dam spillways, as well as lubrication, waves, etc.
- **Energy Systems** involves forms of energy and energy conversion including heat, radiation, kinetic, electrical, chemical, nuclear, and gravitation.
- **Other engineering areas**

MECHANICAL ENGINEERING AT CBU
We offer an ABET accredited Bachelor of Science degree in Mechanical Engineering. The foundation for this degree lies within two traditional concentrations:

- **Energy Systems** – focuses on energy conversion and fluid/thermal systems
- **Mechanical Systems** – addresses the dynamics and mechanics of a system/component

Our design-oriented and laboratory intensive program emphasizes hands-on experience and teamwork. Classroom instruction supported by the understanding of basic mechanical engineering principles, the development of problem solving skills, and extensive laboratory experience provides a solid foundation in traditional and emerging areas of mechanical engineering.

PROGRAM HIGHLIGHTS
- **Technical electives** help you customize your education. Courses in Aerodynamics, Thermal Environmental Engineering, Intermediate Manufacturing, and Selection of Materials are available.

“...My time at CBU was, is, and will remain remarkable in my life. CBU equipped and empowered me with so many gifts that helped me handle myself in the real world. The greatest gift was nurturing – having someone spend time helping me; encouraging me to keep up the good, hard work. CBU has a unique learning culture whereby Brothers, professors, teachers, and faculty always have time to listen to students, share their stories, and are willing to help. I received love and education from CBU.”

Joseph Atem (ME’08, MEM’11)

“...The CBU mechanical engineering program allowed me to really find where my talents lie and an industry and job I love! Through the classes, faculty, and internships I was able to develop skills that allow me to succeed personally and professionally. The ‘real world’ focus and hands-on projects still provide examples and ideas that I use in my job today.”

Sam Noland (ME’12)