



CHEMICAL ENGINEERING AT CBU

A Chemical Engineering degree from CBU will provide you with the tools and practical problem-solving skills you need to meet the challenges of a career. Courses in thermodynamics, material and energy balances, fluid mechanics, heat transfer, separations, and other topics come together your senior year in an individual comprehensive design project. Often these projects are done in conjunction with an industrial internship or sponsor, enabling you to apply your academic training in real world settings.



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.



Department of CHEMICAL & BIOCHEMICAL Engineering

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CHEMICAL & BIOCHEMICAL ENGINEERING at



WHAT IS CHEMICAL ENGINEERING?

All around you are products made using chemical reactions. Gasoline and fuels, semiconductors and computer chips, fibers (nylon, polyester, Kevlar), consumer products (cosmetics, soaps, food), fertilizer, paper, and pharmaceuticals are just a few. As a chemical engineer, you will analyze and design the manufacturing processes in all these industries and often manage the plants and companies as well. Biochemical engineering supplements the traditional ChE skills with additional study of biology, microbiology, and biochemistry. This enables the extension of chemical engineering principles to applications in biotechnology. As a biochemical engineer, you will develop and design the processes used to grow living cells to produce antibiotics, insulin and other drugs.

A chemical engineer's specialized knowledge of reactions and separations apply to more than just manufacturing.

Because our
environment
and bodies
rely on



"The classes are small, encouraging people to work together and get to know each other better. This allows experience in a group work environment (which is important for engineers). Also, very few students graduate from the chemical engineering program without getting an internship. This allows students to get engineering experience outside of the classroom and gain a better understanding of engineering before they enter the workforce."

William Zachary (BSCHE '13)

chemical processes, you'll acquire a unique understanding of how they work as well.

CAREERS IN CHEMICAL & BIOCHEMICAL ENGINEERING

Nationwide, chemical engineering graduates earn among the highest average starting salaries for a four-year degree. CBU chemical engineering graduates have excelled in their careers, contributing to the program's excellent regional reputation. Recent CBU chemical engineering graduates have pursued careers with companies across the nation, including DuPont, ExxonMobil, L'Oréal Maybelline, GlaxoSmithKline, Pennakem, Valero Refining, and Wright Medical Technology.



"Even though the challenge was not easy, the small classes and the availability of the instructors after class allowed me to obtain that one-on-one attention to assist me in understanding the concepts...the concepts that I now use on a daily basis for problem solving and decision making. I attribute the majority of my success to what I learned and the experiences I had while at CBU. "

Ann M. Anderson (BSCHE '06)