

## *Duke Biomedical Engineering Handbook*

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### **Duke Biomedical Engineering Handbook**

This handbook provides an overview of the undergraduate program in Biomedical Engineering (BME) at Duke University. It covers the program mission, educational objectives, major requirements, second major options, course requirements for students planning to apply to medical school, and research opportunities.

### **BME Undergraduate Program Handbook - [bme.duke.edu](https://bme.duke.edu)**

Curriculum. Duke Biomedical Engineering (BME) students learn the classical engineering disciplines, as well as mathematics, physics, chemistry, and biology. They also gain broad exposure to Duke University's excellent offerings in social sciences and humanities. In addition to engineering courses, our curriculum includes:

### **Curriculum & Advising | Duke Biomedical Engineering**

Biomedical engineering applies fundamental science and math principles to improve human health beyond the limits of traditional medicine. Learn the engineering design process used by biomedical engineers and investigate how they create new diagnosis and treatment methods in tissue engineering, genetic engineering, drug delivery, and biomedical instrumentation.

### **Biomedical Engineering | Duke TIP**

Areas of specialization include: biochemical engineering, bioanalytic chemistry, biofluid mechanics, biomedical materials, biomedical modeling, biosensors, biotechnology, cell and tissue engineering, computational systems biology and synthetic biology, DNA-based therapeutics, data acquisition and processing, drug delivery, electrophysiology, ultrasound imaging and

### **Biomedical Engineering | Duke Graduate School**

Duke Biomedical Engineering. 576 likes · 6 were here. Duke's Department of Biomedical Engineering is one of the top 10 BME programs in the U.S.

### **Duke Biomedical Engineering - Home | Facebook**

well as planning a second major in Pratt with Biomedical Engineering (BME). The undergraduate major in Mechanical Engineering at Duke University is one of the best programs in the United States, and a very popular major in the Pratt School of Engineering.

### **Undergraduate Program Handbook - [mems.duke.edu](https://mems.duke.edu)**

Centered on collaboration with Duke Medicine clinicians, Duke BME's re-imagined design course challenges students to design solutions to real patients' problems A Path for Post-Grad Success An industry-focused BME Design Fellowship prepares students for jobs after graduation

### **Duke Biomedical Engineering | Advancing technology to ...**

Duke University is continuously recognized as one of the country's highest-ranked academic institutions. It's the youngest of the nation's top academic medical programs with one of the country's largest clinical and biomedical research enterprises that works to translate advances in medical knowledge into improved patient care.

### **Duke Staff Handbook**

Sample 4+1: BSE/Master's Program (for a combined BSE/Master's Degree in Five Years) With careful planning, motivated undergraduates matriculating with Advanced Placement credits and with summer courses as necessary may use program flexibility to take up to two graduate courses in the spring of their senior year to structure an accelerated program leading to a BSE degree in Electrical and ...

### **BSE Degree Planning | Duke Electrical and Computer Engineering**

Bachelor of Science in Engineering (BSE) Our undergraduate engineering degrees are accredited by the Engineering Accreditation Commission of ABET. Majors. Biomedical Engineering. Biomedical Engineering (BME) applies engineering science to problems in biology and medicine — including the

design of medical instruments, artificial organs and ...

### **Bachelor of Science in Engineering (BSE) | Duke Pratt ...**

But for Duke's Anita Layton, PhD, the Robert R. and Katherine B. Penn Professor of Mathematics and a professor of biomedical engineering, that just adds to the fun of it. Growing up, with her father as the head of mathematics at her school, she was always told she was going to be a mathematician just like him.

### **Biomedical Engineering Archives | Duke Research Blog**

Undergraduate Program Handbook 2014-2015 Academic Year ... well as planning a second major in Pratt with Biomedical Engineering (BME). The undergraduate major in Mechanical Engineering at Duke University is one of the best programs in the United States, and a very popular major in the Pratt School of Engineering. ...

### **Undergraduate Program Handbook**

Information on Getting a Biomedical Engineering Degree at Duke. Interested in attending Duke to study Biomedical Engineering? Review the number of students who graduated during the 2016 - 2017 academic year, the ethnic diversity of those graduates, the average starting and mid-career salaries graduates earned, and find out how Duke University ranks among other schools offering a major in ...

### **Info on Biomedical Engineering at Duke University: Grad ...**

ECE Undergraduate Program Handbook . 2014-2015 Academic Year . ... Duke's Department of Electrical and Computer engineering offers an ABET accredited ... computer engineers can complete a second major or a minor in many fields such as biomedical engineering, computer science, physics, mathematics, economics, and public policy studies. ...

### **ECE Undergraduate Program Handbook**

The Bachelor of Science in Engineering (BSE) degree with the mechanical engineering major requires the completion of 34 courses: 19 general requirements, and; 15 departmental requirements; The freshman year course sequence represents the Pratt Common First Year—enabling all students to fully explore their options before choosing a major.

### **BSE Degree Planning | Duke Mechanical Engineering and ...**

The Graduate School 2127 Campus Drive Box 90065 Durham, NC 27708 USA

### **Biomedical Engineering: PhD Time to Degree Statistics ...**

Requirements. The civil engineering (CE) Bachelor of Science in Engineering (BSE) degree requires the completion of 34 courses, comprising: 19 general requirements and; 15 departmental requirements that include the completion of one study track.; In the CEE Undergraduate Handbook you will find degree check sheets and typical course sequences that outline the degree requirements in a semester ...

### **CE Degree Planning (BSE) | Duke Civil and Environmental ...**

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### **Departments & Centers | Duke Pratt School of Engineering**

Duke's Pratt School of Engineering is a vibrant teaching and research institution dedicated to training the next generation of leaders and exploring the frontiers of engineering to develop solutions to the world's greatest challenges. A Duke engineering education is built on a foundation of partnership and shared commitment between students and faculty.

### **Duke Pratt School of Engineering**

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