**OVERVIEW**

The Bioengineering Ph.D. is an interdisciplinary graduate degree that leverages the close proximity on campus of the College of Engineering and Mathematical Sciences and the College of Medicine. The program has a particular focus on complex systems. Students take courses in both the STEM disciplines and the biomedical sciences, including a core of required courses and a selection of electives as suits their research interests. Co-mentoring between faculty in engineering and the biomedical sciences is encouraged.

**DEGREES**

- Bioengineering Ph.D. (http://catalogue.uvm.edu/graduate/bioengineering/bioengineeringphd/)

**FACULTY**

- Bates, Jason H. T.; Professor, Department of Medicine-Pulmonary; DSC, Canterbury University; PHD, University of Otago
- Bentil, Daniel E.; Associate Professor, Department of Mathematics and Statistics; DPHIL, University of Oxford
- Berger, Christopher Lewis; Professor, Department of Molecular Physiology and Biophysics; PHD, University of Minnesota Twin Cities
- Beynnon, Bruce David; Professor, Department of Orthopaedics and Rehabilitation; PHD, University of Vermont
- Cipolla, Marilyn Jo; Professor, Department of Neurological Sciences; PHD, University of Vermont
- Doiron, Amber; Assistant Professor, Department of Electrical and Biomedical Engineering; PHD, University of Texas at Austin
- Dubief, Yves C.; Associate Professor Department of Mechanical Engineering; PHD, Institut National Polytechnique de Grenoble
- Eppstein, Margaret Jean; Professor Emerita, Department of Computer Science; PHD, University of Vermont
- Fiorentino, Niccolo M.; Assistant Professor, Department of Mechanical Engineering; PHD, University of Virginia
- Huston, Dryver R.; Professor, Department of Mechanical Engineering; PHD, Princeton University
- Krag, Martin Hans; Professor, Department of Orthopaedics and Rehabilitation; MD, Yale University
- Marshall, Jeffrey Scott; Professor, Department of Mechanical Engineering; PHD, University of California Berkeley
- McGinnis, Ryan S.; Assistant Professor, Department of Electrical and Biomedical Engineering; DPHIL, University of Michigan
- Oldinski, Rachael Ann; Associate Professor, Department of Mechanical Engineering; PHD, Colorado State University
- Ossareh, Hamid-Reza; Assistant Professor, Department of Electrical and Biomedical Engineering, PHD; University of Michigan Ann Arbor
- Rizzo, Donna Marie; Professor, Department of Civil and Environmental Engineering; PHD, University of Vermont
- Spector, Peter Salem; Professor, Department of Medicine-Cardiology; MD, Albert Einstein College of Medicine
- Warshaw, David; Professor, Department of Molecular Physiology and Biophysics; PHD, University of Vermont
- Wu, Junru; Professor, Department of Physics; PHD, University of California Los Angeles
- Yu, Jun; Professor, Department of Mathematics and Statistics; PHD, University of Washington Seattle

**Courses**

- BIOE 391. Master’s Thesis Research. 1-18 Credits.
- BIOE 395. Special Topics. 1-18 Credits.
- BIOE 396. Advanced Special Topics. 1-18 Credits.
- BIOE 491. Doctoral Dissertation Research. 1-18 Credits.
- BIOE 492. Independent Study. 1-18 Credits.
- BIOE 496. Advanced Special Topics. 1-18 Credits.

A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.