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.
  See Schedule of Courses for specific titles.
- BIOE 396. Advanced Special Topics. 1-18 Credits.
  See Schedule of Courses for specific titles.
- BIOE 491. Doctoral Dissertation Research. 1-18 Credits.
- BIOE 492. Independent Study. 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.
- BIOE 496. Advanced Special Topics. 1-18 Credits.
  See Schedule of Courses for specific titles.