BIOENGINEERING

OVERVIEW

The Bioengineering Ph.D. is an interdisciplinary graduate degree that leverages the close proximity on campus of the School of Engineering and the College of Medicine. The program is administered by the School of Engineering with strong involvement of the College of Medicine, and 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.

FACULTY

Bates, Jason H. T.; Professor, Department of Medicine-Pulmonary; DSC, Canterbury University; PHD MEDICINE, Otago University, Dunedin, New Zealand

Bentil, Daniel E.; Associate Professor, Department of Mathematics & 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

Dubief, Yves C.; Associate Professor, Department of Mechanical Engineering; PHD, Institut National Polytechnique de Grenoble

Eppstein, Margaret Jean; Professor, Department of Computer Science; PHD, University of Vermont

Fiorentino, Niccolo M.; Assistant Professor, Department of Mechanical Engineering; PHD, University of Virginia

Hitt, Darren Lee; Professor, Department of Mechanical Engineering; PHD, Johns Hopkins University

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; PHD, University of Michigan

Oldinski, Rachael Ann; Assistant Professor, Department of Mechanical Engineering; PHD, Colorado State University

Ossareh, Hamid; Assistant Professor, Department of Electrical and Biomedical Engineering, PHD; University of Michigan, Ann Arbor, MI

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 and Chair, Department of Molecular Physiology and Biophysics; PHD, University of Vermont

Wu, Jun-Ru; 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 392. 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 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.