

**Minor in Biomedical Science and Technology**

As various fields of medicine and health care increasingly depend upon advances in technology, graduates who possess combined expertise in engineering principles and knowledge of biological sciences at all levels will be in high demand. The minors in Biomedical Engineering and Biomedical Science and Technology enhance opportunities for Clarkson's students to meet this need. This minor is connected closely with the minor in Biomedical Engineering. Students from both minors participate in shared core courses along with a multidisciplinary capstone design course. ***Students can take only one (not both) of the two minors.***

Please note that Cell and Molecular Biology (BY160 or a suitable substitute) is a prerequisite for some of the courses in the minor as listed below.

**Biology Fundamentals**

BY360 Human Physiology  
BY362 Human Physiology Laboratory

**Engineering Fundamentals (3 credits)**

BR200 Introduction to Biomedical and Rehabilitation Engineering, Science and Technology

**Intersecting BEST courses, Required (3 credits)**

(team taught, interdisciplinary)

BR450 BEST Capstone Design I (3 credits) or equivalent engineering design course with a BEST approval project

**Specialty Tracks (Tentative):**

**Choose one (2 course-6 credits) track.**

Track I Genetic Engineering

BY214 Genetics

And choose one of

BY412 Molecular Biology Laboratory (4 credits)

BY/CM314 Bioinformatics

Track II Kinesiology

PT360: Kinesiology I - Concepts of Human Movement

PT460: Kinesiology II - Functional Anatomy (PT 360)

Track III Neuroscience

BY/CM460 Neurobiology (BY160 or BY360 or consent)

PY458 Cognitive Neuroscience (PY151 or junior/senior standing)

**Breadth Elective:**

**Choose 1 (3 credits) from approved list of upper division courses.**

***Total: 19 credits (plus 3 credits cell biology)***

**Students can take only one (not both) of the two minors:  
Biomedical Engineering and Biomedical Science and Technology**

For questions, please contact:

Polly Tiernan

[ptiernan@clarkson.edu](mailto:ptiernan@clarkson.edu)

Dr. Stephanie Schuckers

[sschucke@clarkson.edu](mailto:sschucke@clarkson.edu)

Dr. Charlie Robinson

[robinson@clarkson.edu](mailto:robinson@clarkson.edu)

The latest approved list of courses is available at the Center for Rehabilitation Engineering and Science (CREST) office.