BME 6110 explores the interface of stem cell biology, bioengineering, and biotechnology. This course is for M.Eng. and Ph.D. students in the biological and/or engineering sciences.

This course covers:
- Embryonic and adult stem cell biology fundamentals
- Cell and molecular biotechnology concepts, design and analysis
- Engineering biomimetic and bioreactor environments to guide stem cell derivation, differentiation, and organogenesis
- Design of genetic and biomolecular therapies to regulate stem cell function

Suggested pre-requisites:
- Molecular/cell biology, Matlab or similar language