

Spring Course Announcement

MAE 6291: Biomaterials and Regenerative Medicine (3 credits)

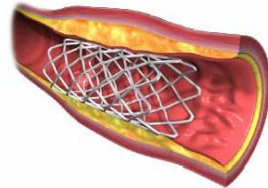
Instructor: Dr. Lijie Grace Zhang

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Time & Days: 6:10 - 8:40 PM, Monday

Location: Tompkins 204



Course description:

As one of the most important fields in biomedical engineering, biomaterials play a critical role in human health. This course will provide both undergraduate and graduate students a comprehensive knowledge of principles, technologies and medical applications of biomaterials. The course requires no specific background knowledge from biology.

The main topics of this course include:

- *Different classes of biomaterials;*
- *Stem cells and biomaterials;*
- *Nanotechnology for biomaterials;*
- *Biomaterials for tissue engineering;*
- *Drug delivery, biosensor and cancer therapies.*

For students who would like to pursue an advanced degree, this course can offer you the basic knowledge structure of biomaterials and expose you with the frontier of biomedical engineering research. For students who would like to work in medical device and health care industry in the future, this course can benefit your career as well.