

BIOMATERIALS CERTIFICATE

The Biomaterials certificate emphasizes biomedical materials and provides a foundation in the areas of biocompatibility, the biological performance of materials, and material design, and selection for medical applications.

About this Program

- **College:** Herbert Wertheim College of Engineering (<http://catalog.ufl.edu/UGRD/colleges-schools/UGENG/>)
- **Credits:** 10 | Completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Department Information

The Department of Materials Science and Engineering strives to serve the scientific and engineering community of the state and nation by providing quality education in the field, conducting basic and applied research to enhance science in the field, and supplying short courses, technology transfer, industrial consulting, and distance learning to promote engineering in the field.

Website (<https://mse.ufl.edu/>)

CONTACT

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Map (<http://campusmap.ufl.edu/#/index/0184>)

Curriculum

- [/UGRD/colleges-schools/UGENG/NRA_BS/](#)
- Advanced Engineering Ceramics Certificate
- Biomaterials Certificate
- Combination Degrees
- Materials Science and Engineering
- Materials Science and Engineering Minor
- Metallurgical Engineering Certificate
- Nuclear and Radiological Engineering Minor
- Nuclear Engineering
- Nuclear Radiation and Reactor Analysis Certificate
- Nuclear Thermal Systems Analysis Certificate
- Polymer Science and Engineering Certificate
- Semiconductor Materials Certificate

Prerequisite Courses

Code	Title	Credits
CHM 2045 or CHM 2095	General Chemistry 1 Chemistry for Engineers 1	3
CHM 2046 or CHM 2096	General Chemistry 2 Chemistry for Engineers 2	3
EMA 3010	Materials	3
Select one:		3
EMA 3011	Fundamental Principles of Materials	
CHM 2200	Fundamentals of Organic Chemistry	
CHM 2210	Organic Chemistry 1	
EMA 3066	Introduction to Organic Materials	3

Required Courses

Code	Title	Credits
EMA 4061	Biomaterials: Structure and Properties	3
EMA 4062	Biopolymers: Manufacture, Stability and Biocompatibility	3

EMA 4161 & 4161L	Physical Properties of Polymers and Polymers Laboratory	4
Total Credits		10
