

POLYMER SCIENCE AND ENGINEERING CERTIFICATE

The Polymer Science and Engineering (PSE) certificate provides a foundation in polymer synthesis, processing, and characterization, and how this relates to polymer structure and properties. This facilitates the proper selection of polymers for various applications such as plastics, composites, biomaterials, organic electronics, and rheology modifiers.

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
- Student Learning Outcomes (SLOs) (<https://public.tableau.com/app/profile/uf.oipr4918/viz/UFStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes>)

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

Email (mkt@warrington.ufl.edu) | 352.846.3300 (tel) | 352.392.7219 (fax)

P.O. Box 116400
549 Gale Lemerand Drive
RHINES HALL
GAINESVILLE FL 32611-6400
Map (<http://campusmap.ufl.edu/#/index/0184>)

Curriculum

- 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
- Polymer Science and Engineering Certificate
- Semiconductor Materials Certificate

Prerequisites

Code	Title	Credits
CHM 2045 or CHM 2095	General Chemistry 1 Chemistry for Engineers 1	3
EMA 3010 or BME 3101	Materials Biomedical Materials	3
EMA 3066	Introduction to Organic Materials	3

Required Courses

Code	Title	Credits
EMA 4061 or EMA 4062	Biomaterials: Structure and Properties Biopolymers: Manufacture, Stability and Biocompatibility	3
EMA 4161	Physical Properties of Polymers	3
EMA 4666	Polymer Processing	3
EMA 4161L	Polymers Laboratory	1
Total Credits		10

