

SEMICONDUCTOR MATERIALS CERTIFICATE

The Semiconductor Materials certificate provides a foundation in the fundamental physics, processing, and technological applications of various semiconductor materials.

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

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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	Materials	3
EMA 3413	Electronic Properties of Materials	3
EEL 3003 or EEL 3111C	Elements of Electrical Engineering Circuits 1	3-4

Required Courses

Code	Title	Credits
EEL 3008	Physics of Electrical Engineering	3
EMA 4614	Production of Electronic Materials	3
EMA 4615	Compound Semiconductor Materials	3
EMA 4414L	Electronic Materials Laboratory	1
Total Credits		10

