

Nano Materials Science and Engineering, Academic Certificate

The undergraduate Nano Materials Science and Engineering Academic Certificate is a 12-hour program open to all majors and professionals. This certificate will provide students the necessary skills to apply Nano Materials Science effectively in a variety of areas. Multiple departments participate in the Nano Materials Science and Engineering academic certificate. See catalog section UNDERGRADUATE ACADEMIC CERTIFICATE PROGRAMS OFFERED for participating departments.

In order to qualify for the certificate, students need to take *four courses, two required and two chosen from among electives*. *Prerequisites* for various courses have to be met. Contact the specific department course instructor for information and advising concerning prerequisites.

Code	Title	Semester Credit Hours
Required Courses		
CHEM 4313	Chemistry and Nanoscience	3
MEEN 3344	Materials Science	3
Elective Courses		
Select at least 6 hours of the following:		6
EEEN 3331	Circuits and Electmag Devices	
EEEN 3324	Electromagnetics	
MEEN 3352	Kinematics of Machines	
MEEN 4382	Polymer Science & Engineering	
CHEM 4381	Selected Topics in Chemistry	
MEEN 4335	Special Problems ¹	
or EEEN 4335	Special Problems	
CHEM 4181	Chemical Seminar	
CHEM 3385	Undergraduate Research (WI) ¹	
or CHEM 4385	Senior Research (WI)	
AEEN 4336	Selected Topics ¹	
or MEEN 4336	Selected Topics	
Any Topics/Special Programs courses with the College of Engineering ²		
Total Semester Credit Hours		12

¹ Courses with variable credit hours (1-3) and focus on research aspects of material science.