

Certificate in Nano Engineering

The graduate certificate in nano engineering is a university-issued graduate certificate. Nano engineering is the practice of engineering on the nanoscale, emphasizing the engineering aspects of the design, building and use of machines and structures on the nanoscale, dealing with nanomaterials and how they interact to make useful materials, structures and devices. It is designed for engineering and technology professionals and graduate students enrolled in related fields who are wishing to gain training in this focused topic. Students completing this certificate will have a strong understanding of the fundamentals of nano engineering as well as in-depth knowledge in critical and upcoming areas such as nanotechnology in computers and consumer electronic devices, drugs, automobiles, laser nano-built products, other nano-related manufacturing and new emerging nanotechnologies.

Admission

Students seeking this certificate must be admitted to the Graduate School in one of the degree programs offered by the department or in nondegree status. All graduate school policies relative to admissions apply.

Program Requirements

Students pursuing a graduate certificate must file a plan of study for the certificate program with the graduate coordinator before half of the required credit hours are completed. Students may apply certificate coursework toward a degree program.

The certificate requires the completion of 12 credit hours from a selected list of courses. A cumulative grade point average of at least 3.000 must be maintained for all courses comprising the certificate program and no grades below C. In addition to these requirements, students must meet the Graduate School's requirements (<http://catalog.wichita.edu/graduate/academic-information/types-programs-courses/certificates-graduate-programs/>) in order to earn this certificate.

Course	Title	Hours
Required Course		
ME 670	Introduction to Nanotechnology	3
Electives		
Select three of the following courses		9
ME 762	Polymeric Composite Materials	
ME 844	Advanced Biomaterials	
ME 862	Synthesis and Applications of Nanomaterials	
ME 865	Corrosion Science Engineering	
ME 870 & 870L	Advanced Laser Applications in Manufacturing and Advanced Laser Applications in Manufacturing Lab	
Total Credit Hours		12

Program Completion

Students completing the certificate program will receive an appropriately worded certificate from the Graduate School, and notation will be made on the student's transcript when the certificate has been awarded.