

MICROSCOPY AND MICROANALYSIS CERTIFICATE

Program Description

The certificate in Microscopy and Microanalysis will prepare students enrolled in science and engineering majors for careers studying biologic and/or inorganic materials at the microscopic level. Graduates of the program will be proficient in microscopic analysis of specimen's structure as well as the characterization of their microscopic composition.

Program Learning Outcomes

- Utilize light and electron microscopy to image the microstructure of biological and inorganic materials
- Utilize microanalysis techniques to characterize the composition of biological and inorganic materials
- Independently design and conduct microscopy and microanalysis experiments

Requirements

Code	Title	Hours
MICR 205	Light Microscopy Techniques	1
MICR 315	Elect Microscopy/Microanalysis	2
CHEM 115	General Chemistry I	5
MATH 111	College Algebra	3
Select one of the Following Courses:		1-4
BIOL 204	General Microbiology	
BIOL 421	Adv Cell & Molecular Biology	
BIOL 422	Parasitology	
BIOL 433	Histology and Histopathology	
CHEM 445	Forensic Sci I: Bio/Trace Evid	
EGME 276	Strength of Materials Lab	
GEOL 223	Earth Materials	
Total Hours		12-15

A minimum of 12 credits must be earned for graduation with a cumulative gpa of 2.00 or higher.