MICROSCOPY (MICR)

MICR 205 Light Microscopy Techniques 1 Credit Hour (0,3)
A practical introduction to light microscopy techniques and digital image analysis. Students will utilize a variety of microscopes (stereo, compound, inverted, etc.) and contrast techniques (brightfield, darkfield, polarized light, phase contrast, DIC. and fluorescence) to characterize biological and inorganic materials. Successful completion of this course will qualify students for independent use of light microscopy facilities at LSSU. A minimum of one year of university coursework in a science or engineering discipline is recommended.
Prerequisite(s): MATH111 and sophomore standing, or permission of instructor

MICR 315 Elect Microscopy/Microanalysis 2 Credit Hours (1,3)
A theoretical and practical introduction to electron microscopy and microanalysis techniques including SEM-EDS, TEM/STEM, IR and Raman Microscopy, uXRF, and related methods for biological and materials characterization. Successful completion of this course will qualify students for independent use of SEM-EDS and LDIR facilities at LSSU.
Prerequisite(s): CHEM115 and junior standing or permission of instructor