MOLECULAR AND CELLULAR BIOTECHNOLOGY (M.S.)


Description

A new Master of Science in Molecular and Cellular Biotechnology has been approved for Academic Catalog year 2020/2021.

The Department of Molecular, Cellular, and Biomedical Sciences (MCBS) in the College of Life Sciences and Agriculture (COLSA) offers the professional M.S. in Molecular and Cellular Biotechnology (MCBT). This non-thesis degree program addresses the growing workforce and educational needs of the bioscience industries (including biotechnology, pharmaceutical, biomanufacturing, and medical device companies). The M.S. in MCBT provides continuing and accessible graduate-level education for individuals from broad socioeconomic backgrounds currently in the workforce, as well as for UNH undergraduate students seeking to enroll in an accelerated Master’s program, and to gain enhanced knowledge and specialized skills prior to entering the workforce.

Distinctive Features of the Program

The program is founded on the existing academic rigor of the thesis-based graduate programs offered in MCBS and on the substantial innovative experiential learning opportunities enabled by existing biotechnology-relevant Centers: the University Instrumentation Center (UIC), the Center of Integrated Biomedical and Bioengineering Research (CIBBR), the NH Center for Multiscale Modeling and Manufacturing of Biomaterials (NH BioMade), and the Biomanufacturing Innovation Center (BIC). These resources will enable offering instrumentation training workshops in the following areas: genetic engineering of cells; recombinant protein production and purification; biological mass spectroscopy; nuclear magnetic resonance (NMR) spectroscopy; cell imaging and phenotyping; visualization of macromolecules.

More information and program requirements will be available in the 20/21 Academic Catalog published in August.