CLFS - CHEMICAL AND LIFE SCIENCES

CLFS608 Seminar in Current Topics in Chemical and Life Science (1-3 Credits)
Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.
Prerequisite: Two years of teaching experience; and CLFS510.
Restriction: Must be in Master of Chemical & Life Sciences (Master’s) program; and permission of CMNS-Chemical & Life Sciences department.
Repeatable to: 6 credits if content differs.
Formerly: LFSC609.

CLFS609 Special Topics (1-3 Credits)
Individual instruction course. Contact Program Director or instructor before registering.
Prerequisite: Two years of teaching experience; and CLFS510.
Restriction: Must be in Master of Chemical & Life Sciences (Master’s) program; and permission of CMNS-Chemical & Life Sciences department.
Repeatable to: 6 credits if content differs.
Formerly: LFSC609.

CLFS610 Natural Products Chemistry (3 Credits)
Foundations of natural products chemistry; how nature goes about making (biosynthesizing) these compounds and elements of enzymology and genomics relevant to production of these compounds; relevance of natural products chemistry as a driving force for drug discovery and innovation in biotechnology.
Restriction: Permission of CMNS-Chemical & Life Sciences department.
Credit Only Granted for: LFSC609D or LFSC610.
Formerly: LFSC609D.

CLFS619 Special Topics in Chemistry (1-3 Credits)
Topics of current interest and special importance.
Repeatable to: 9 credits if content differs.
Formerly: LFSC619.

CLFS620 Modern Molecular Genetics (3 Credits)
An overview of genetics including the genetic basis/components in prevalent diseases, genetically engineered organisms and foods, the importance of knowing the complete DNA sequence of organisms.

CLFS630 Principles of Transmission Genetics: A Historical and Modern Perspective (3 Credits)
Examines the origins of modern genetics, model genetic systems, and the role of chromosomes in vertical transmission of genetic information from parent to offspring. Classical gene mapping, population genetics and the various applications of modern genetics will also be studied.

CLFS640 Human Physiology (3 Credits)
Examination of the major organ system of the human body and of the neural and hormonal mechanisms responsible for their regulation and control.
Prerequisite: Two years of teaching experience; and CLFS510.
Restriction: Must be in Master of Chemical & Life Sciences (Master’s) program; and permission of CMNS-Chemical & Life Sciences department.

CLFS655 The Chemistry and Applications of Electrochemical Cells (3 Credits)
Chemistry of electrochemical cells including the thermodynamic basis for the production of electrical energy by cells, the chemical reactions utilized by the most common cells, the manufacture of cells, and the application of cells in energy production.