

# HEALTH SCIENCES LEC/LAB (HSCC)

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## **HSCC 1000 Introduction to Healthcare**

**Credit Hours:** 3

**Lab Fee:** Yes

This is the basic pre-clinical course of theory and laboratory practice for students entering a healthcare profession. Instructional content includes, but is not limited to, basic anatomy and physiology, healthcare delivery systems, communication, legal and ethical issues, concepts of wellness and disease, infection control, safety, CPR, basic math and science, and computers in healthcare. This course meets the mandatory requirements of the Florida Department of Education for all healthcare programs.

## **HSCC 3543 Quantitative Biomedical Laboratory Methods**

**Credit Hours:** 4

**Prerequisites:** CHM 1046 and BSCC 1011 - both courses with a grade of "C" or higher

**Lab Fee:** Yes

Program coordinator approval or admission to Bachelor's program required. Students will survey a broad range of the most basic and most widely used techniques, protocols, assays, and technologies used in biomedical research. Students will learn the scientific jargon, basic biology, chemistry, and theories associated with each technique so that students can perform common research methods.

## **HSCC 4544 Quantitative Biomedical Laboratory Instrumentation**

**Credit Hours:** 4

**Prerequisites:** HSCC 3543 with a grade of C or higher

**Lab Fee:** Yes

Program Coordinator approval or admission to Bachelor's program required. This course surveys a broad range of the most basic and most widely used techniques, protocols, assays, and technologies used in biomedical research. Students are introduced to the theory, design, and operation of advanced instrumentation currently used in research and quality assurance laboratories for analysis and characterization of organic and biomolecules. Topics include spectroscopic techniques, separation techniques, electrochemical methods, and statistical treatment of data. Principles of techniques and instrument operation and limitations will be discussed. Laboratory experiments will be performed.