

# HEALTH SCIENCES INTEGRATED PROGRAM (HSIP)

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Independent research course for students in the Health Sciences Integrated Program.

## **HSIP 400-1 Interdisciplinary Health Sciences Doctoral Colloquium (0 Unit)**

Year-long introduction to foundational issues in Health Sciences Disciplines that comprise the PhD program.

## **HSIP 400-2 Interdisciplinary Health Sciences Doctoral Colloquium (0 Unit)**

Year-long introduction to foundational issues in Health Sciences Disciplines that comprise the PhD program.

Prerequisite: HSIP 400-1.

## **HSIP 400-3 Interdisciplinary Health Sciences Doctoral Colloquium (1 Unit)**

Year-long introduction to foundational issues in Health Sciences Disciplines that comprise the PhD program.

Prerequisite: HSIP 400-2.

## **HSIP 401-0 Introduction to Health Measurement Science (1 Unit)**

This course will focus on methodological issues regarding the design, implementation, analysis, and interpretation of health measures.

## **HSIP 430-0 Introduction to Social Sciences and Health (1 Unit)**

The objective of this course is to introduce students to the role of social sciences in health and how researchers study psychosocial and behavioral variables in the context of health. The central focus will be on research done within the Department of Medical Social Sciences (MSS).

## **HSIP 440-0 Introduction to Medical Informatics (1 Unit)**

This course is a survey of fundamental concepts and activities on information technology as applied to health care.

## **HSIP 441-0 Health and Biomedical Informatics Methods I (1 Unit)**

This is the first course in a three-course series that provides an extended introduction to the methodologies of biomedical informatics.

Prerequisite: May be taken with instructor approval.

## **HSIP 442-0 Biomedical Informatics Methods II (1 Unit)**

This course is the second in a series of courses offered to educate students about methodologies utilized in biomedical informatics.

Prerequisite: HSIP 441-0; may be taken with instructor approval.

## **HSIP 443-0 Biomedical Informatics Methods III (1 Unit)**

This course is the third in a series of courses offered to educate students about methodologies utilized in biomedical informatics.

Prerequisite: HSIP 441-0 and HSIP 442-0; may be taken with instructor approval.

## **HSIP 445-0 Introduction to Statistical Learning (1 Unit)**

Due to advances in technology and data collection, the ability to analyze complex data sets is a necessary skill for all clinical, translational and population researchers. A variety of data analysis tools exist, some unique to specific domains. This course provides an introduction to the data, analysis tools, ethical considerations, and terminologies from across biomedical data science with an emphasis on clinical, translational and population methods and tools. Prerequisite: BIOSTAT 302-0.

## **HSIP 499-0 Independent Study (0.5-2 Units)**

Graded independent study course for students in the Health Sciences Integrated Program.

## **HSIP 590-0 HSIP Doctoral Research (0.5-3 Units)**