

# INTERDEPARTMENTAL (INTER-MD)

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## INTER-MD 1034 Foundations of Medicine (4 Credits)

*Typically offered Fall*

Foundations of Medicine

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 1035 Organ Systems 1: Cardiology, Pulmonary, and Kidney (4 Credits)

*Typically offered Fall and Spring*

Organ Systems 1: Cardiology, Pulmonary, and Kidney

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 1036 Organ Systems 2: Gastroenterology, Endocrinology, and Reproductive Medicine (4 Credits)

*Typically offered Spring*

Organ Systems 2: Gastroenterology, Endocrinology, and Reproductive Medicine

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 1037 Organ Systems 3: Brain and Behavior (4 Credits)

*Typically offered Spring*

Organ Systems 3: Brain and Behavior

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 1038 Foundational Clinical Skills (4 Credits)

*Typically offered Fall and Spring*

Foundational Clinical Skills

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 1039 Living Anatomy (4 Credits)

*Typically offered Fall*

Living Anatomy

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 3002 Autism Spectrum & Related Disorders Selective (4 Credits)

*Typically offered Fall and Spring*

Autism Spectrum & Related Disorders Selective

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 3003 Transition To Clerkships (2 Credits)

*Typically offered Fall*

Transition To Clerkships

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4092 Advanced Topics in Bioethics (4 Credits)

*Typically offered Spring*

Advanced Topics in Bioethics

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4095 Introduction to Clinical Informatics (2 Credits)

*Typically offered Fall and Spring*

Introduction to Clinical Informatics

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4098 Service Learning Longitudinal (4 Credits)

*Typically offered Fall and Spring*

Service Learning Longitudinal

**Grading:** SOM Graded

**Repeatable for additional credit:** Yes

## INTER-MD 4099 Introduction to Telemedicine (2 Credits)

*Typically offered Fall and Spring*

Introduction to Telemedicine

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4101 Clinical Informatics and Bioinformatics (2 Credits)

*Typically offered Fall and Spring*

Clinical Informatics and Bioinformatics

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4102 Human Genetics and Genomics (2 Credits)

*Typically offered Fall and Spring*

Human Genetics and Genomics

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4103 Molecular Diagnostics and Precision Medicine (2 Credits)

*Typically offered Fall and Spring*

Molecular Diagnostics and Precision Medicine

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4104 Immunology, Host Defense and Emerging Diseases (2 Credits)

*Typically offered Fall and Spring*

Immunology, Host Defense and Emerging Diseases

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 4105 Foundational Clinical Skills Teaching Academy (2 Credits)

*Typically offered Fall and Spring*

Foundational Clinical Skills Teaching Academy

**Grading:** SOM Graded

**Repeatable for additional credit:** Yes

## INTER-MD 6002 Integrative Seminar (1 Credit)

*Typically offered every year*

Integrative Seminar

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

## INTER-MD 6006 Biomolecular Medicine (3 Credits)

*Typically offered every year*

Biomolecular Medicine

**Grading:** SOM Graded

**Repeatable for additional credit:** No

## INTER-MD 6008 Drug Development in a New Era (3 Credits)

*Typically offered every year*

Drug Development in a New Era

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6009 Advanced Epidemiology (3 Credits)**

*Typically offered every year*

Advanced Epidemiology

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6011 Independent Research-3 Credits (3 Credits)**

*Typically offered every year*

Independent Research-3 Credits

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6012 Health Services Research (3 Credits)**

*Typically offered every year*

Health Services Research

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6016 Health Services Research-CR (4 Credits)**

*Typically offered every year*

Health Services Research-CR

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6023 Advanced Biostatistics (3 Credits)**

*Typically offered every year*

Advanced Biostatistics

**Grading:** SOM Graded

**Repeatable for additional credit:** No

**INTER-MD 6024 Biotechnology Industry, Structure & Strategy (3 Credits)**

*Typically offered every year*

Biotechnology Industry, Structure & Strategy

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6029 Introduction to Clinical Research Methods (3 Credits)**

*Typically offered every year*

Introduction to Clinical Research Methods

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6031 Introduction to Medical Informatics and Computing (3 Credits)**

*Typically offered every year*

Introduction to Medical Informatics and Computing

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6033 Grant Writing (1 Credit)**

*Typically offered every year*

Grant Writing

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6034 Introduction to Dissemination and Implementation Science Research (3 Credits)**

*Typically offered every year*

Introduction to Dissemination and Implementation Science Research

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6036 Writing for Scientific Publication (2 Credits)**

*Typically offered every year*

Writing for Scientific Publication

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6037 Independent Research-5 credit (5 Credits)**

*Typically offered every year*

Independent Research-5 credit

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6038 Healthcare Delivery Science (3 Credits)**

*Typically offered every year*

Healthcare Delivery Science

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6042 Analytic Techniques for Healthcare Delivery Science (3 Credits)**

*Typically offered every year*

Analytic Techniques for Healthcare Delivery Science

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6043 Health Disparities and Health Equity in Community Health (3 Credits)**

*Typically offered every year*

Health Disparities and Health Equity in Community Health

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6046 Qualitative Research Methods for Population Health (2 Credits)**

*Typically offered every year*

Qualitative Research Methods for Population Health

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 6047 A Population Health Equity Approach to Aging and Alzheimer's Disease Disparities, Elective (3 Credits)**

*Typically offered every year*

A Population Health Equity Approach to Aging and Alzheimer's Disease Disparities, Elective

**Grading:** SOM Pass/Fail

**Repeatable for additional credit:** No

**INTER-MD 21713 Advanced Methods in Observational Data Analysis (Biostatistics III) (3 Credits)***Typically offered every year*

This is the third and most advanced installment of the biostatistics courses. The goal of this course is to provide students with knowledge and skills necessary for understanding indications and interpretation of statistical approaches used in comparative effectiveness research. A broad range of topics, more typically taught over several semesters, will be covered in a condensed format focusing on aspects of greatest relevance to clinician-researchers. In addition, students will have opportunities to apply statistical techniques using common software packages including SAS and Stata. This course extends understanding of epidemiologic concepts and methods by providing applied training in the conduct of secondary data analysis studies using either SAS or Stata. Using data from the National Longitudinal Study of Adolescent Health Wave IV (adulthood; 2008), students will identify a research question; define a causal model, specific aims, and hypotheses based on review of extant literature; gain experience in management and conditioning of the data; conduct stratified analyses to assess effect modification and confounding; implement the backwards elimination method of model building using logistic regression to obtain multivariable results; interpret results with respect to the strength and precision of estimates, selection and information bias and confounding, and generalizability.

**Grading:** SOM Graded**Repeatable for additional credit:** No**INTER-MD 21715 Meta-Analyses and Systematic Reviews Course (3 Credits)***Typically offered every year*

This course is designed to train students in the conduct of a systematic literature review, considered by many investigators to be the highest level of evidence for answering clinical questions and developing the skills to conduct a review built on the framework of evidence-based practice. This is a graduate-level course designed to highlight rigorous systematic review methods. The course comprises of didactics classroom sessions and lectures on the topic as well as hands on conduct of a systematic review on a topic. Students will be taught how to perform each step in a review and apply it to a topic of their choosing. The students, at the beginning of the class, will be asked to choose one topic of interest or will be provided a topic of interest and will be taken through the process of systematic review of the topic. Lab sessions will focus on practical aspects of meta analysis. For the "lab" sessions, students are required to bring their laptop. Analyses will be performed using RevMan software, which is available as a free download. The final deliverable for the course will be a systematic literature review presentation.

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 21976 Cost Effectiveness Research (3 Credits)**

The purpose of this course is to introduce the concepts and techniques used in the economic evaluation of health care interventions and provide practical experience in conducting economic evaluations. In the face of shrinking health care resources, providers, payers, and purchasers of health care must become more efficient, and therefore we must understand the optimal basis and methods for estimating the value of any health care intervention or program. This course will provide an understanding of the foundations of cost effectiveness analysis, with sufficient detail regarding the mechanics and methodologies to prepare students to both interpret and critique the literature of cost effectiveness analysis and construct these analyses themselves.

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** Yes**INTER-MD 237184 Programming for Data Analysis (2 Credits)***Typically offered every year*

Programming for Data Analysis

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 237185 Translating Cancer Discovery Into Clinical Practice (4 Credits)***Typically offered every year*

Translating Cancer Discovery Into Clinical Practice

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 237186 Machine Learning (3 Credits)***Typically offered every year*

Machine Learning

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 237187 Principles of Population Health Science (3 Credits)***Typically offered every year*

Principles of Population Health Science

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 237188 Introduction to Biomedical Entrepreneurship (3 Credits)***Typically offered every year*

Introduction to Biomedical Entrepreneurship

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 237189 Independent Research (1cr) (1 Credit)***Typically offered every year*

Independent Research (1cr)

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No**INTER-MD 237190 Introduction to Health Informatics (3 Credits)***Typically offered every year*

Introduction to Health Informatics

**Grading:** SOM Pass/Fail**Repeatable for additional credit:** No