

## HEALTH SCIENCES AND TECHNOLOGY (HST)

### Summer Session Representative

Traci Anderson ([tanderso@mit.edu?subject=Summer Session](mailto:tanderso@mit.edu?subject=Summer Session))

Room E25-518

617-253-7470

No regular classes are offered by the Health Sciences and Technology Program during the summer term.

Current MIT students can take arranged-unit subjects such as UROP, Special Studies, Research, Internship, Co-op, Independent Study, Thesis Preparation, or Thesis during the Summer Session by prior arrangement with a faculty member.

The following pre-thesis research subjects have subsidized tuition:

- HST.190/HST.191 Introduction to Biostatistics
- HST.198 Independent Study in Health Sciences and Technology
- HST.201 Introduction to Clinical Medicine and Medical Engineering I
- HST.202 Introduction to Clinical Medicine and Medical Engineering II
- HST.240 Translational Medicine Preceptorship
- HST.599 Research in Health Sciences and Technology

See Tuition (<https://catalog.mit.edu/summer/tuition-financial-aid>) for details of the policy concerning these subjects.

**IMPORTANT NOTES regarding preclinical subjects (HST.011-HST.200-HST.200)\*:**

*Students not enrolled in an HST program are limited to two HST preclinical courses and must provide justification for enrolling in these courses. This action must be approved by the course director and the student's advisor. These subjects are scheduled according to the Harvard Medical School academic calendar, which differs from the MIT calendar. Students whose graduation depends upon completing one or more of these subjects should take particular care regarding the schedule. \*HST.163 and HST.198 are NOT included in the two-course limit.*

### HST.191 Introduction to Biostatistics

Subject meets with HST.190

Prereq: Calculus II (GIR)

G (Summer)

3-0-3 units

08/12/2024–09/06/2024, M, W, F 9:00 AM - 12:00 PM, Harvard Medical - MEC 209

Provides training on how to comprehend, critique and communicate findings from biomedical literature. Considers how to assess the importance of chance in the interpretation of experimental data. Topics include probability theory, chi-squared and t-tests, ANOVA, linear and logistic regression, survival analysis, and statistical analysis using MATLAB. Includes critical reading of studies published in medical literature.

*Summer: N. Hejazi*

### HST.201 Introduction to Clinical Medicine and Medical Engineering I

Prereq: Permission of instructor

G (Summer)

0-20-0 units

05/28/2024–07/03/2024, M, T, W, Th, F, Section B1 meets at Mount Auburn Hospital and Section B2 at West Roxbury VA Hospital.

Develop skills in patient interviewing and physical examination; become proficient at organizing and communicating clinical information in both written and oral forms; begin integrating history, physical, and laboratory data with pathophysiologic principles; and become familiar with the clinical decision-making process and broad economic, ethical, and sociological issues involved in patient care. There are two sections: one at Mount Auburn Hospital and one at West Roxbury VA Hospital, subsequent registration into HST.202 must be continued at the same hospital as HST.201.

*Summer: C. Stultz, N. Price, A. Romano, J. Strymish*

### HST.202 Introduction to Clinical Medicine and Medical Engineering II

Prereq: HST.201

G (Fall, IAP, Spring, Summer)

0-20-0 units

Schedule individually arranged, West Roxbury VA Hospital

Strengthens the skills developed in HST.201 through a six-week clerkship in medicine at a Harvard-affiliated teaching hospital. Students serve as full-time members of a ward team and participate in longitudinal patient care. In addition, students participate in regularly scheduled teaching conferences focused on principles of patient management.

*Summer: C. Stultz, A. Romano, J. Strymish*