MEMP Curriculum Map

Science / Engineering Concentration
Choose one of the established concentration areas and select four courses from the approved list for the chosen area. Current MEMP concentration areas are:
- Aeronautics & Astronautics
- Biological Engineering
- Brain & Cognitive Sciences
- Chemical Engineering
- Computer Science
- Chemistry
- Electrical Engineering
- Materials Science & Engineering
- Mechanical Engineering
- Nuclear Engineering
- Physics

Biomedical Sciences and Clinical Requirements

Biomedical Sciences Core
- HST030 or HST034: Human Pathology
- HST160: Biochemistry and Molecular Genetics in Modern Medicine
- HST090: Cardiovascular Pathophysiology

Restricted Electives - Choose two
- HST010: Human Anatomy
- HST100: Respiratory Pathophysiology*
- HST110: Renal Pathophysiology*
- HST130: Introduction to Neuroscience
- HST175: Cellular & Molecular Immunology
- Must choose at least one of HST100, HST110

Clinical Core
- HST201: Intro. to Clinical Medicine I
- HST202: Intro. to Clinical Medicine II

Qualifying Exam
TQE: Technical qualification based on performance in four concentration area courses and Pathology
OQE: Oral examination to evaluate ability to integrate information from diverse sources into a coherent research proposal and to defend that proposal

Research
Letter of Intent #1: Thesis supervisor and topic. Due by April 30 of 2nd year.
Letter of Intent #2: Tentative thesis committee. Due by April 30 of 3rd year.

Professional Skills
HST500: Frontiers in (Bio)Medical Engineering and Physics Required spring of first year
HST590: Biomedical Engineering Seminar Required fall semester of first year. Minimum of four semesters required; one on responsible conduct of research and three electives. Topics rotate.

1. Harvard MEMP fulfill Basic Science/Engineering Concentration and Qualifying Exam through their collaborating department (SEAS or Biophysics).
2. Required for all MEMP students. (Biophysics students may substitute MedSci 300 for HST590 term on responsible conduct of research.)
3. Harvard MEMP must an electronic copy of the final thesis including the signed cover sheet. Harvard MEMP should not register for HST.ThG.