



Supported by the Roderick T. Wong, M'03, Term Fund for  
Healthcare Management, Entrepreneurship, and Technology

**Healthcare Management, Entrepreneurship & Technology Certificate Program**  
**Requirements**  
**Updated as of Summer 2017**

**Experiences that can count as a “meaningful and education experience”**

- Approved project-based course within the University of Pennsylvania (e.g. HCMG 653 Health Care Field Application Project, HCMG 867: Health Care Entrepreneurship)
- Consulting project
  - As part of HealthX Ventures to provide advice for VC firms
  - Penn Center for Innovation Fellows Program
- Participation in a project-based experience. Some examples include:
  - Penn Medicine Center for Healthcare Innovation
    - Innovation Accelerator Program
    - mHealth Labs Program
  - Penn HealthX Labs project
  - Wharton Venture Initiation Program
  - ApptUp Challenge
  - DevelUPmed Challenge
  - Wharton Health Care Innovation Challenge
  - Startup Health Weekend
  - Wharton Business Plan Competition
  - Penn Apps Hackathon
  - Penn Center of Innovation
  - Penn Center for Innovation I-Corps
  - Penn Center for Innovation Fellows: Internship in Technology Commercialization

**Courses that will count towards the H-MET Certificate Program requirement  
(as of Summer 2017):**

- *These courses will be taken according to Perelman SOM's Additional 3-course policy*

- *\* These classes qualify for the experiential requirement, however students must select another class to fill the course requirement*
- Healthcare Management
  - HCMG 653: Health Care Field Application Project\*
  - HCMG 841: The Health Services System
  - HCMG 845: Managed Care and the Industrial Organization of Health Care
  - HCMG 849: Financial Management of Health Institutions
  - HCMG 850: Health Policy: Health Care Reform and the Future of the American Health System
  - HCMG 852: Health Care Services Delivery: A Managerial Economic Approach
  - HCMG 853: Medical Devices
  - HCMG 854: Legal Aspects of Health Care
  - HCMG 855: Management of Health Care for the Elderly (0.5-1 cu)
  - HCMG 858: Health Care Marketing (0.5 cu)
  - HCMG 859: Comparative Health Care Systems
  - HCMG 863: Management & Economics of Pharmaceutical, Biotechnology, & Medical Device Industries
  - HCMG 866: E-Health: Business Models and Impact
  - HCMG 867: Health Care Entrepreneurship (0.5 cu)\*
  - HCMG 868: Private Sector Development in Global Health Development (.5 cu)\*
  - HCMG 890-001: Advanced Study Project Seminar: Management of Health Service Businesses
  - HCMG 890-002: Advanced Study Project Seminar: Medical Devices
  - Other HCMG courses: On case-by-case basis.  
(<https://hcmg.wharton.upenn.edu/programs/mba/course-information/course-descriptions/>)
- Biomedical Engineering
  - BE 255: Technology and Engineering in Medicine
  - BE 470: Medical Devices
  - BE 502: From Biomedical Science to the Marketplace
  - BE 515: Bioengineering Case Studies.
- Computer and Information Sciences
  - CIS 110: Introduction to Computer Programming
  - Other CIS courses: on a case-by-case basis.
- Nursing
  - NURS 551: Applied Health Informatics
  - NURS 610: Concepts in Healthcare Economics
  - NURS 612: Principles and Practice of Quality Improvement and Patient Safety.
  - NURS 651: Nursing Informatics

- NURS 652: Health Care Accounting and Financial Management
- NURS 654: Business and Strategic Planning.
- NURS 831: Advanced Topics in Health Informatics.
- Other departments
  - OPIM 631: Operations Management in Health Care
  - GCB 535: Introduction to Bioinformatics
  - PUBH 505: Public Health Policy and Administration
  - EPID550: Clinical Economics and Clinical Decision Making
  - BIOE 575: Health Policy: The Affordable Care Act and the Future of the American Health System (cross-listed HCMG 850)

**Recommended Frontiers Courses (as of Summer 2017):**

- FRO511: Biomedical Entrepreneurship
- FRO517: Science of Value Based Healthcare
- FRO519: Medical Informatics
- FRO531: Precision Medicine