"The history of medicine is in essence the history of the doctor-patient relationship." The aim of this course is to understand the many different ways in which medicine has been defined, practiced, and developed in history. Understanding the history of medicine helps place the theory and practice of modern medicine in social-historical context.

Four texts and a reading packet provide the foundation for studying the many medical changes and developments to the early 20th century.

Classes consist of the analysis and discussion of assigned readings, so that active participation is essential. There are many different ways to evaluate and interpret the past; the more their representation, the fuller and more refined one's understanding.

Grading will be based on class participation, 6 short papers [2+ pages each], a midterm, and a second in-class hour exam, in roughly equal proportions, plus a little final short quiz (<5%). The grade for class participation derives from 3 components: attendance, active discussion, and overall quality of contributions.

The following are the four required texts; copies have been placed on intensive reserve in Schow Library:

- **W. F. Bynum**  
  *Science and the Practice of Medicine in the Nineteenth Century*

- **L. I. Conrad, et al**  
  *The Western Medical Tradition: 800 BC to AD 1800*

- **Lois Magner**  
  *A History of Medicine*

- **Sherwin B. Nuland**  
  *Doctors: The Biography of Medicine*

[Although it's the best of the most up-to-date histories of medicine, Magner's book is very expensive, priced the same in cloth and paper].

In addition to the texts, a course reading packet may be obtained from Ms. Kate Fletcher in 189 Bronfman. The packet consists of 337 pages, and will be charged at $8.40 (cost) to students' term bills.

The usual provisions of the Honor Code apply to papers and examinations in this course.
The following pages give the schedule of classes and reading assignments for the semester.
CLASS SCHEDULE and READING ASSIGNMENTS

1.  2/7, Fr.  **Introduction. Why History of Medicine?**

   Definition of Medicine(s). Reasons for studying History of Medicine.
   Chronology or typology [Paleo/Ancient/Greek/Roman/Islam-Arabic/Medieval Latin/European 16th-18th/19th/Modern.]
   Dependencies on Anatomy and Physiology; Botany; Chemistry [Cooking].
   Theory/Practice. Sources. Nursing, Hospitals, Instruments, Societies, Journals, Pharmaceuticals, Universities, [Research]; Literature.

2.  2/10, Mo.  **Orientation. Paleomedicine**

   Disease and Medicine in History, an overview and orientation to the history of medicine.
   Paleomedicine: Evidence [bone, teeth, mummy, soft tissue; painting, artifact]. Disease frequency, type; difficulty of diagnosis]. Remedies. Trepanation. limb/body deformation. Osteomyelitis; mastoiditis.

   ---------------------------Readings--------------------------
   Magner, pp. 1-13, "Paleopathology and Paleomedicine"
   Packet: Ackerknecht, pp. 3-9, "Paleopathology and Paleomedicine"
   Ackerknecht, pp. 10-17, "Primitive Medicine"

3.  2/12, We.  **Ancient Medicine**


   ---------------------------Readings--------------------------
   (71 pps.)  Magner, pp. 17-35, "Medicine in Ancient Civilizations"
   37-59, "Medical Traditions of India and China"
   Packet: Porter, pp. 135-146, “Indian Medicine”
   Porter, pp. 147-162, “Chinese Medicine”

   2/14 Fr.  **WINTER CARNIVAL WEEKEND; VALENTINE’S DAY**
4.  2/17, Mo.  **Greek Medicine**

Tradition.  The Context of PreSocratics and Greek Rationality.  4 Humors, relation to Malaria, Psychology.  Aristotle, Plato, and Hellenistic Medicine.  Aristotle the biologist; On Reproduction.  Classification.  4 Causes.  3 chambered heart.  Asclepius and the Aesculapians

-----------------------------------------------Readings-----------------------------------------------

(36 pps.)  Magner, 63-76(top), "Greco-Roman Medicine"
Conrad, 11-19; 31-33, 33-38.

5.  2/19, We.  **Hippocrates. Transition to Greco-Roman Medicine**


-----------------------------------------------Readings-----------------------------------------------

(60 pps.)  Conrad, 19-31
Nuland, 3-30, "Hippocrates."
Source Book of Greek Science: 486-489, on climate;  
4 humors; 498-500, on Prognosis

6.  2/21, Fr.  **Greco-Roman Medicine; Galen.**

Methodists, Empiricists, Dogmatists  [contrasts between theory and practice.]  New Terminology  [e.g. duodenum].  Celsus.  Galen.

-----------------------------------------------Readings-----------------------------------------------

(85 pps.)  Conrad, 39-70, “Rome and Galen”
Magner, 76-96, "Greco-Roman Medicine"
Nuland, 31-60, "Galen"
Rec: C. Singer, A Short History of Anatomy and Physiology, 37-62, “The Empire…”; From Magic to Science, 17-32,  
“Science under the Roman Empire”

7.  2/24, Mo.  **From Rome to the Middle Ages**


---------------------Readings---------------------------------

(38 pps.) Conrad (V. Sutton), 71-87, “Medicine in Late Antiquity and the Early Middle Ages”
Rec: C. Singer, “The Dark Ages..Translators..Universities...,” 62-70, A Short History of Anatomy and Physiology

8. 2/26, We. Arabic Medicine


---------------------------Readings-------------------------------

(69 pps.) Conrad, 93-138, “The Arab-Islamic Medical Tradition”
Magner, 133-149, "Islamic Medicine"
Packet: Source Book of Medieval Science:
705-715, "The Galenic System" [Ishaq]
715-720, "Canon," [Avicenna]

9. 2/28, Fr. Medieval Medicine


---------------------------Readings-------------------------------

(63 pps.) Magner, 99-114, "The Middle Ages"
Conrad, 139-182, “Medicine in Medieval Western Europe”
Packet: Source Book of Medieval Science, 724-726, "Anatomical Demonstration at Salerno"
Rec: Singer (Anatomy), 66-86, "The Middle Ages and Renaissance"; (Magic), 71-81, "The Age of Arabian Infiltration," and "Translation from the Arabic"

10. 3/3 Mo. Medieval Diseases


---------------------------Readings-------------------------------
11. 3/5, We. Medieval Medicine - Exemplars

Trotula; Guy de Chauliac. Hildegard of Bingen. Salerno; Mondino;

---------------------------Readings--------------------------

(38 pps.) Packet: Sourcebook of Medieval Science
729-739, "Anatomy" [Mondino da Luzzi]
742-745, "General Instructions for the Practitioner"
761-767, "Gynaecology" [Trotula]
775-778, Salernitan Diet and Regimen [poem]
785-787, "How to Make Aqua Vitae," [Aldreotti]
791-795, "History of Surgery" [Chauliac]
Singer (Magic), 223-226, "on Man, the Microcosm,"
[Hildegard]

12. 3/7, Fr. Renaissance, Paré, and Paracelsus


---------------------------Readings--------------------------

(66 pps.) Conrad, 310-325, (Paracelsus)
Magner, 153-157; 165-183, "Medicine and the Renaissance."
Nuland, 94-119, "Ambroise Paré"

13. 3/10, Mo. Vesalius [the Copernicus of Anatomy?]

The Scientific Revolution in Anatomy

---------------------------Readings--------------------------

(112 pps.) Conrad, 264-292, “Anatomy”
Magner, 158-164, [Vesalius];
Nuland, 61-93, "Andreas Vesalius"
Vesalius' De Fabrica, "Introduction", 54-60
Heseler, "Vesalius' First Public Anatomy", 61-65
Platter, "Journal: Graverobbing for anatomy", 66-67
Rec: Singer (Anatomy), 110-135, "Vesalius, reformer of Anatomy"
14.  3/12, We.  **Background to Modern Medicine, 1500-1700.**

Conrad, 215-264 incl.  Demographics, Diseases(syphilis, typhus), Famine, plague, European diseases abroad; Scurvy, Lind, acclimatisation abroad, world of the sick (physicians, hospitals, apothecaries, women, regulations, forensics, popular medicine, religion, death, witchcraft and magic, the sick poor (hospitals, charities), learned medicine (revival Greek medicine, translations, books; practical medicine and Galenism, method, innovation), causes of disease (Galen, Fernel, Fracastoro).  Surgery (humanism, innovation); medical botany, herbs, old and new drugs.  

---------------------------Readings--------------------------


15.  3/14, Fr.  **Medicine and The Scientific Revolution**

Sydenham. Malaria, Quinine.  Royal Society, Netherlands, Bacon, Descartes, the body, Newton, Willis, microscope, Hooke, Leeuwenhoek, experimental physiology, Lower and blood; Moliere, Sanctorius, Borelli, iatrophysics.  Curing, The “end” of ancient medicine.  People (charity, hospitals), Madness.  

---------------------------Readings--------------------------

(59 pps.)  Conrad, 340-361 “The New Science,”  
Magner, 217-225 “Selected Aspects of Clinical and Preventive Medicine”  
Packet, Porter, 217-244, “The New Science”

16.  3/17, Mo.  **New Anatomy and the Circulation of the Blood**


---------------------------Readings--------------------------

Magner, 189-213, "The Scientific Revolution and the Circulation of the Blood"  
Nuland, 120-144, "William Harvey"
17. 3/19, We. **De Motu Cordis**

Harvey's experimental method illustrated. Discussion. In class video [Royal College of Physicians]: "William Harvey and the Circulation of the Blood"

18. 3/21, Fr. **Midterm Exam**

======================SPRING BREAK======================

**The Rise of Modern Medicine**

19. 4/7, Mo. **The Enlightenment and Medicine – I**


---------------------------Readings--------------------------

(76 pps.) **Magner**, 225-239, (Bases, Anatomy, Reform, Nutrition)

**Conrad** (Porter), 371-431, “The Eighteenth Century”

20. 4/9, We. **The Enlightenment and Medicine – 2**


---------------------------Readings--------------------------

(42 pps.) **Conrad** (Porter), 434-475, “The Eighteenth Century”

21. 4/11, Fr. **18th Century Exemplars: Morgagni and Hunter**

The Lives and Contributions of Two Leading Physicians and Researchers

---------------------------Readings--------------------------

(55 pps.) **Nuland**, 145-170, Giovanni Morgagni

171-199, John Hunter

22. 4/14, Mo. **Towards Hospital Medicine, 1700-1850**

23. 4/16, We.  **Medicine in the Community [Public Health]**


24. 4/18 Fr.  **Public Health: Exemplars**

Edward Jenner, Cowpox, and vaccination. The Eradication of Smallpox. John Snow and the Broad Street Pump: epidemiology and epistemology. Edwin Chadwick, English working class conditions, and the need for sanitary reform.

25. 4/21, Mo.  **Medicine in the Laboratory [Scientific Medicine]**

Liebig, Virchow, Müller, Bernard, Welch; Koch, Pasteur, Lister Medical Practice in Germany, France, Britain, and the USA.
26. 4/23, We.  **Revolution in Surgery: Anesthesia**


---------------------------Readings--------------------------

(70 pps.)  
Magnier, 280-302, "The Art and Science of Surgery"  
Bynum, 118-123 "Chemistry" [Anesthesia]  
Nuland, 263-303, "Surgery without Pain"

27. 4/25, Fr.  **More Revolution: Asepsis [or Antisepsis?]**


---------------------------Readings--------------------------

(55 pps.)  
Bynum, 132-137, "Antiseptic Surgery" [Lister]  
Nuland, 343-385, "Joseph Lister"  
Packet: Lister on Antisepsis, 247-252

28. 4/28, Mo.  **Revolutions Again: Germ Theory & Bacteriology**


---------------------------Readings--------------------------

(67 pps.)  
Magnier, 305-331, "The Germ Theory of Disease: Medical Microbiology"  
Bynum, 127-132, "Bacteriology"  
Packet: Pasteur on Germ Theory, 253-257  
Koch on Tuberculosis, 319-329  
Packet: Porter, 428-445, “From Pasteur to Penicillin”

29. 4/30, We.  **Childbed Fever, Midwifery, and Obstetrics**

Professionalization and women's exclusion; the Chamberlen family and obstetric forceps; Holmes, Semmelweis, and puerperal fever. Obstetrics and Gynecology. women return to medicine - Blackwell, Jacobi;

---------------------------Readings--------------------------
(79 pps.)  

**Magner**, 259-275, "Childbed Fever, Midwifery, and Obstetrics"

**Nuland**, 238-262, Ignac Semmelweis

**Bynum**, 202-208, "Women and Medicine"

Packet: (Schiebinger) Women's Traditions, 102-118

Semmelweis on Puerperal Fever, 240-246

Blackwell, Women and Medicine, 282-287


30. 5/2, Fr. **Diagnostics and Therapeutics**


---------------------------Readings--------------------------

(67 pps.)  

**Magner**, 335-365, "Diagnostics and Therapeutics"

**Bynum**, 158-164, "Immunology"

164-175, (Pharmaceuticals, Experimental Physiology, X-Rays)

Packet: Porter, 445-461, (Immunity, Chemotherapy, Antibiotics)

31. 5/5, Mo. **Doctors and Patients**


---------------------------Readings--------------------------

(79 pps.)  

**Nuland**, 200-237, René Laennec

Packet: Laennec on Diseases of the Chest, 310-313

**Bynum**, 176-202; 208-217, "Doctors and Patients",

32. 5/7, We. **Other Aspects of 19th Century Medicine**


---------------------------Readings--------------------------

(76 pps.)  

**Bynum**, 142-158, "Medical science goes public."
218-226, "Conclusion: Did science matter?"
Packet: Porter, 375-396
Nightingale on Hospitals, 360-364; Mass. General Hospital Rules, 365-367; Pinel on Insanity, 166-177; Dix on Treatment of the Insane, 352-359

33. 5/9, Fr. Second Hour Exam

34. 5/12, Mo. Surgery after Lister

-------------------------------Readings-------------------------------
(64 pps.) Nuland, 457-489, "The Story of Transplantation"
Packet: Porter, 597-927, “Surgery” (after Lister)

35. 5/14, We. 20th Century Surgery: Two Exemplars

William Halsted and the transformation of American surgery. From blue babies to heart transplants.
-------------------------------Readings-------------------------------
(78 pps.) Nuland, 386-421, "William Stewart Halsted"
Packet: Burney, A Mastectomy, 383-389
Nuland, 422-456, “Helen Taussig”

36. 5/15, Fr. Review and Reflection Quiz. SCS.

-------------------------------Readings-------------------------------
(36 pps.) Conrad (Neve), 477-494, “Conclusion” (to 1800)
Porter,"The Rise and Fall of the Age of Miracles," 1-9