

<p>Professor: Terry D. Bilhartz</p> <p>Office: AB4 Room 441A</p> <p>Email: his_tdb@shsu.edu</p> <p>Office Phone: 936-294-1483</p> <p>Office Hours: MWF 8:30-10 TT 8:30am-9:30 and by appointment</p>	<p style="text-align: center;">HIS 373: History of Science and Medicine</p> <p style="text-align: center;">CID 4557</p>	<p style="text-align: center;">Class Time: TTH 11-12:30</p> <p style="text-align: center;">Location: AB4 3-5</p>
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Welcome to the web page for HIS 373: History of Science and Medicine for the Fall 2007 semester. Read over the entire syllabus, and then print it for further viewing. Please note that you are responsible for understanding all of the policies explained in this syllabus.

COURSE DESCRIPTION:

This is a three credit-hour course covering selected topics in the history of science and medicine from ancient times to the present. This semester the course will focus more on the topics in the history of medicine, although broader themes in the history of science in general also will be explored. Students will attend lectures, complete primary and secondary source readings and assignments, participate in oral and online Blackboard discussion threads, take three exams, including the final, and complete a research project on a relevant topic. Regular attendance is expected. All course materials, requirements, and policies are outlined below.

COURSE OBJECTIVES:

The objective of this course is to increase your knowledge of the history of science and medicine from ancient times to the present. At the end of this semester, you will be able to speak confidently about major themes in the history of medicine. Moreover, by reading and reflecting upon a collection of primary sources from each period studied, you will develop the detective skills that will enable you to become your own historian. After you perfect these skills, you will never again be willing to accept uncritically anyone's version of the past—even the past so brilliantly presented to you by your history teacher. As you learn to construct the past for yourself, you will discover the secret that all historians know—that “doing history” is more fun than simply memorizing and regurgitating it.

REQUIRED TEXTS:

Roy Porter, *The Greatest Benefit to Mankind: A Medical History of Humanity* (WW Norton, 1997) ISBN: 0-393-31980-6 A magisterial chronicle of medical thinking and practice....Written with storytelling flair and erudition, this study will be of interest to laypersons and professionals alike.

Richard G. Olson, *Science and Religion 1450-199: From Copernicus to Darwin* (Johns Hopkins University Press, 2004) ISBN 0-8018-8400-4 Galileo. Newton. Darwin. These giants are remembered for their contribution to science. Often forgotten, however, is the profound influence that Christianity had on their lives and work. This study explores the many ways in which religion – its ideas, attitudes, practices and institutions – interacted with science from the beginnings of the Scientific Revolution to the end of the 19th century.

Walter Isaacson, *Einstein: His Life and Universe* (Simon & Schuster, 2007)

ISBN: 1416539328 How did his mind work? What made him a genius? Isaacson's biography shows how his scientific imagination sprang from the rebellious nature of his personality. His fascinating story is a testament to the connection between creativity and freedom. Based on newly released personal letters of *Einstein*, this book explores how an imaginative, impertinent patent clerk—a struggling father in a difficult marriage who couldn't get a teaching job or a doctorate—became the mind reader of the creator of the cosmos, the locksmith of the mysteries of the atom and the universe. His success came from questioning conventional wisdom and marveling at mysteries that struck others as mundane. This led him to embrace a morality and politics based on respect for free minds, free spirits, and free individuals. These traits are just as vital for this new century of globalization, in which our success will depend on our creativity, as they were for the beginning of the last century, when *Einstein* helped usher in the modern age.

Other Readings: Shorter readings from selected primary and secondary sources will be assigned throughout the semester to supplement the above larger works.

NON-REQUIRED TEXTS: If you are like many college students, you probably will find Diana Hacker's *A Pocket Style Manual* a useful addition to your library. In my opinion, this is the best brief guidebook for successful writing. I may refer to this book in my comments to you regarding your homework assignments.

If you are a super achiever, there's another book that you may like, too: Jules Benjamin, [A Student's Guide to History](#). This link will take you to the brief edition online that contains information for those of you who have trouble [reading the syllabus carefully and understanding what is expected of you in the course](#), retaining information when [reading your history textbook](#), taking [notes during class](#), or taking [tests with objective or short-essay questions](#), as well as a lot of other useful information.

OFFICE HOURS: I hold regular office hours on Mondays, Wednesdays and Fridays from 8:30 am to 10:00 am, and on Tuesdays and Thursdays from 8:30 to 9:30 am. If you need to meet with me at other times, call me and we will try to arrange a time for an appointment. I strongly encourage you to come see me during these office hours to discuss any questions you might have about the class, study methods, and history in general.

NOTE: The moment you sense that you are falling behind, PLEASE come see me or my graduate teaching assistant. The sooner we discuss the problem the sooner you can get back on track, and the better you'll do in the class. If you just have a quick question and don't have time to stop by my office, you can always email me at his_tdb@shsu.edu.

EXAMINATIONS: During the semester, we will examine three periods in the history of science and medicine. After we complete the discussion of each period, we will take an in-class exam over the pertinent material. Each exam will consist of multiple-choice and in-class essay questions, and out-of-class take home essays and reviews.

MAKE-UP EXAMS: If you miss a test due to illness or family emergency, you MUST have documentation of your absence, such as a doctor's note, and then you will make-up the exam(s)

during the regular class time on the last scheduled class day for this course, which is Thursday, December 6.

RESEARCH PROJECT: In addition to these exams, each student will complete a research project over an assigned topic. Most students will work on this project in groups, although with instructor approval students may work solo in their assigned project. These projects will be presented to the class during the last two weeks of the semester. Details regarding the research project topics and format will be posted on Blackboard at a later date.

PARTICIPATION: Students also will receive a participation grade. This grade will be based upon participation in weekly discussion over the assigned readings and on the number and quality of the postings on the assigned threads in Blackboard. Students will be expected to respond to the Discussion Board threads in a timely manner, posting answers to the discussion questions over the reading assignments and commenting on the quality of the answers posted by their classmates. Details regarding these participation expectations will be posted on Blackboard at a later date.

GRADING:

The maximum number of points that you can receive for the semester is 500 points (300 from your three major exams, 100 points on your research project, and 100 points for your oral and written class participation. To ensure a grade of A, B, C, or D, you will need to have an overall average, respectively, of 90%, 80%, 70% and 60%. To have a 90 average from a possible 500 points, you will need a total of 450 points; for an 80, 70, and 60 average, respectively, you will need 400, 350 and 300 points. I reserve the right to raise your points if I feel that a curve is warranted and if you have an excellent attendance record.

One final word: students with a disability that affects their academic performance are expected to arrange for a conference with the instructor in order that appropriate strategies can be considered to ensure that participation and achievement opportunities are not impaired. The physically impaired may contact the Director of the Counseling Center for more information (extension 4-1720).

COURSE GRADING:		GRADING SCALE:	
First Exam:	100 points	A	90%-100% or 450-500points
Second Exam:	100 points	B	80%-89% or 400-449 points
Final Exam:	100 points	C	70%-79% or 350-399 points
Research Project	100 points	D	60%-69% or 300-349 points
Oral and Written Participation	100 points	F	59%-0% or under 300 points

ATTENDANCE: You are expected to be in every class. Emergencies may arise, however, so every student is allowed to miss **two or three** classes and, if these are the only absences, no points will be subtracted from the total point you earn. Excessive absences, however, will result in a lower attendance and participation grade. Students also may be counted absent for coming in late and for sleeping or distracting other students during class. They may be asked to leave, as well, if this behavior continues. See Course policies at the bottom of the syllabus

ASSISTANCE WITH LEARNING:

Before we go any further, I'd like to encourage you again to contact me and/or the [SAM Center](#) (Student Advising & Mentoring Center) as soon as you find yourself confused by the material we're reading and discussing or if you're falling behind on your work. Some of you may wish to work with the [SAM Center](#) even if you're doing well, but wish to do better. They are "a resource dedicated to helping students adjust to academic life at Sam Houston State University. Services available include career testing, aid with time management and/or study skills," and *much* more. These services are available to you as an SHSU student, and I encourage you to take advantage of them. The [SAM Center](#) is located in room 210 in Academic Building IV, which is south of the Lee Drain Building at the corner of Avenue I and Bowers Blvd. You may contact them to make an appointment at SAMCenter@shsu.edu or by telephone (936) 294-4444. You also may wish to become familiar with the Writing Center that is located in Wilson 114.

Schedule of Lecture Topics and Readings

These reading assignments are structured to correspond to the lectures to best assist you in understanding the subjects being discussed. The topics and reading schedule may be adjusted to accommodate the pace of this course. Outlines for lectures and study questions from old exams are available on Blackboard under Course Documents.

Week	Lecture Topics	Reading Assignment
Week of Aug 21	"Introduction to Course" Review Syllabus Discuss Introduction to The Greatest Benefit to Mankind	Porter, chapter 1
Week of Aug 28	Science and Medicine in Antiquity	Porter, chapters 2-3
Week of Sept 4	Medicine and Faith The Medieval West	Porter, chapters 4-5

Week of Sept 11	Medicine in the East	Porter, chapters 6-7
Week of Sept 18	Medicine in the Renaissance	Porter, chapters 8 Olson, chapters 1-2
Week of Sept 25	Exam 1 (over Porter 1-8 and Olson 1-2) The New Science	Porter, chapters 9 Olson, chapters 3-4
Week of Oct 2	Science and Medicine in the Enlightenment	Porter, chapter 10 Olson, chapters 5-6
Week of Oct 9	Science in the 19 th Century	Porters, chapter 11-12 Olson, chapter 7
Week of Oct 16	The Darwinian Controversy Group Project Preparation	Porter, chapters 13-14 Olson, chapter 8
Week of Oct 23	From Pasteur to Penicillin	Porter, chapters 15-16
Week of Oct 30	Exam 2 (over Porter, 9-16 and Olson 5-8) Science at the Turn of the Century	Porter, chapters 17-18 Isaacson, pp 1-89
Week of Nov 6	Developing Disciplines	Porter, chapter 19 Isaacson, pp 90-335
Week of Nov 13	Science and Medicine at Mid-Century	Porter, chapter 20 Isaacson, pp 336-552
Week of Nov 21	Thanksgiving Holidays	Complete research project
Week of Nov 27	Medicine in the Late 20 th Century Project Presentations	Complete research project

Week of Dec 4	Project Presentations	
Dec 11	FINAL EXAM at 8 AM	

COURSE POLICIES

NOTE: Student enrollment in this course confirms that you have read and accepted these policies.

Plagiarism

Plagiarism and cheating are serious offenses and may be punished by failure on the exam, paper, or project; failure in the course; and/or expulsion from the university. The SHSU Student Guidelines academic honesty policy states:

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

See <http://www.shsu.edu/students/guide.html>

Please read Jules Benjamin's (A Student's Guide to History) [discussion of plagiarism](#) as well.

Classroom Rules of Conduct:

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

Classroom Visitors:

Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom.

Copyright Statement

The materials presented in this syllabus and course are copyrighted. Reproduction of these

materials for commercial purposes without the express permission of the copyright holder is prohibited.

STUDENT ABSENCES ON RELIGIOUS HOLY DAYS POLICY

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

DISABLED STUDENT POLICY

It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. Disabled students may request help with academically related problems stemming from individual disabilities from their instructors, school/department chair, or by contacting the Chair of the Committee for Continuing Assistance for Disabled Students and Director of the Counseling Center, Lee Drain Annex, or by calling (936) 294-1720. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until you register with the Counseling Center.

This course was designed and is maintained by Terry D. Bilhartz