

HIST 116 – History of Science, Medicine, and Technology
(Spring 2022)

Professor: Dr. Aneilya Barnes

Office: BRTH 380

Office Hours: Tuesdays and Thursdays - 8:00-10:00 and by appointment

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Course Description:

HIST 116 - History of Science, Medicine, and Technology (3 credits) This course introduces students to the history of science, medicine, and technology and the ways in which these areas overlapped in the past. The objective of this course is to apply methods of inquiry that investigate social behavior. Topics examined may include the foundations of scientific knowledge; spaces and practices through which authoritative knowledge and “truth” are made; the interactions of machines, humans, nature, and technological systems; social and scientific constructs of race, class, and gender, and public engagement with medicine, science, and technology. F, S, Su.

Course Objectives: Students will recognize a variety of social perspectives and contexts, and identify connections among individual and group behaviors within and across cultures.

Core Student Learning Outcomes for Core Goal 2B:

Students will be able to:

1. Apply methods of inquiry to investigate social behavior
2. Analyze and illustrate the connections among individual and group behaviors

Course Student Learning Outcomes:

Students will be able to:

*In support of Core Goal 2B SLO 1:

1. Recognize that science is a socially situated and historically changing enterprise and the impact of competing narratives within the history of science, medicine, and technology
2. Evaluate a variety of interdisciplinary sources, such as texts, material culture, shifting topographies, and the built environment, for evidence of developments in scientific, medical, and technological knowledge

*In support of Core Goal 2B SLO 2:

3. Analyze the historical record for the sharing and spread of scientific knowledge, medical practices, and technological developments among groups
4. Explain the historical developments that influenced diverse cultural and scientific understandings of the physical, environmental, biological, and human sciences
5. Demonstrate patterns of continuity and change among scientific and medical institutions, methods, and ideas across cultures and time periods

Required Readings and Technology Requirements:

All readings will be provided via Moodle

***Breakdown of all points used for figuring final grades:**

(Any bonus points earned for bonus quizzes will be added to the student's overall grade at the time the quiz is taken)

Quizzes (10 quizzes worth 20 points each)	= 200 pts
Assignments (4 written assignments and 1 reflection)	= 100 pts
<u>Exams (a Midterm and Final worth 100 points each)</u>	<u>= 200 pts</u>
Total points possible	= 500pts

Grading Scale:

(448-500)	90 – 100% = A
(438-447)	88 – 89% = B+
(398-437)	87 – 80% = B
(388-397)	78 – 79% = C+
(348-387)	77 – 70% = C
(338-347)	68 – 69% = D+
(298-337)	67 – 60% = D
(below 297)	below 60% = F

Attendance:

Attendance for this class is imperative for success. Therefore, in keeping with university policy, missing more than 6 (25%) of the schedule classes will result in a failing grade for the course, regardless of other grades earned. Likewise, excused absences will be determined based on documentation the professor deems appropriate and only for reasons included in University Policy STUD-332: <https://www.coastal.edu/policies/pdf/stud-332-may2020.pdf>.

Assignments, Exams, and Final Reflection:

There will be four analytical writing assignments throughout the semester, and, at the end of the course, students will be required to write a final reflection on the course. There will also be a midterm and final exam. Guidelines for the assignments, exams, and final reflection will be posted to Moodle at least a week before each is due. Students must read and follow the guidelines very carefully; otherwise, grade penalties will be levied.

Writing Support:

If you help with writing, you should visit the Writing Center. The Writing Center hours of operation and other information can be found here: <https://www.coastal.edu/writingcenter/>

STUDENTS WITH DISABILITIES:

Students with disabilities are responsible for contacting Accessibility and Disability Services to learn about their rights *and* their obligations. Students **MUST** provide me with official documentation from Accessibility and Disability Services; otherwise, I cannot make any exceptions to any regular policies in order to accommodate accessibility and disability issues. If a student provides proper documentation, accommodations will be made only for the remaining assignments, meaning assignments that have already passed their submission deadline may not be re-taken after documentation has been provided. Therefore, students should get any necessary documentation to me immediately. Once documentation has been provided, reasonable accommodations will be given accordingly.

Coastal Carolina University is committed to equitable access and inclusion of individuals with disabilities in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Individuals seeking reasonable accommodations should contact Accessibility & Disability Services (843-349-2503 or <https://www.coastal.edu/disabilityservices/>).

ACADEMIC DISHONESTY:

Cheating in any form and on any quiz, assignment, or test is a serious offense. If a student is caught committing academic dishonesty in any form, including plagiarism as defined in the Student Code of Conduct, which can be accessed at: <http://www.coastal.edu/students.html> under Code of Conduct, s/he WILL receive a failing grade (specifically the grade of FX) for the entire course and will be reported to the appropriate university officials. If you need further explanation of what might be considered academic dishonesty, please feel free to ask me, as I am more than happy to clarify any questions you may have. Therefore, cheating and/or plagiarism in any form will not be excused because of claims that one lacked an understanding of what constitutes either. Be aware that in this class, sharing information from quizzes, assignments, or exams constitutes cheating and WILL result in a failing grade for the quiz, assignment, or exam. Also, any information that comes from anywhere other than the assigned text, such as –but not limited to – the internet, other books, other students, etc. will be considered cheating and WILL result in a zero for the entire course.

Weekly Topics:

Week 1: the Neolithic Revolution and Technology

Week 2: Pharaohs and Science

Week 3: Greek and Roman Science and Technology

Week 4: Plows and Guns

Week 5: The Cosmos and Physics

Week 6: Plagues and Epidemiology

Week 7: The Scientific Revolution

Week 8: The Chemical Revolution

Week 9: The Birth of Modern Public Health

Week 10: Linnaeus, Darwin, and Modern Taxonomy

Week 11: Professionalization of Science and Medicine

Week 12: Race Sciences and Eugenics

Week 13: The Bomb, the Internet, and the Genome

Week 14: The Human Machine Interface

Week 15: National and Global Scientific Communities