

 FLORIDA ATLANTIC UNIVERSITY	NEW COURSE PROPOSAL Undergraduate Programs		UUPC Approval <u>10-11-21</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department History College Dorothy F. Schmidt College of Arts & Letters <i>(To obtain a course number, contact erudolph@fau.edu)</i>		
Prefix HIS Number 3462	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> Lab Code	Type of Course <div style="border: 1px solid red; padding: 2px;">Lecture</div>	Course Title History of Science
Credits <i>(Review Provost Memorandum)</i> 3	Grading <i>(Select One Option)</i> Regular <input checked="" type="radio"/> Pass/Fail <input type="radio"/> Sat/UnSat <input type="radio"/>	Course Description <i>(Syllabus must be attached; Syllabus Checklist recommended; see Guidelines)</i> This course introduces students to the history of "Natural History," as the study of science was called before it was broken into individual subjects. It will address the development of scientific thought from prehistoric times through to the development of university-based scientific study in the late 19th century.	
Effective Date <i>(TERM & YEAR)</i> Fall 2022	Prerequisites, with minimum grade*		
		Corequisites	Registration Controls <i>(Major, College, Level)</i>
*Default minimum passing grade is D-. Prereqs., Coreqs. & Reg. Controls are enforced for all sections of course			
WAC/Gordon Rule Course <input type="radio"/> Yes <input checked="" type="radio"/> No <small>WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See WAC Guidelines.</small>		Intellectual Foundations Program (General Education) Requirement <i>(Select One Option)</i> None <small>General Education criteria must be indicated in the syllabus and approval attached to the proposal. See GE Guidelines.</small>	
Minimum qualifications to teach course PhD in related area of Historical study			
Faculty Contact/Email/Phone Sandra Norman/norman@fau.edu/7-2621		List/Attach comments from departments affected by new course	
Approved by Department Chair <u></u> College Curriculum Chair <u></u> College Dean <u></u> UUPC Chair <u>Daniel Meeroff</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____			Date <u>9/20/2021</u> <u>9.30.21</u> <u>10-4-2021</u> <u>10-11-21</u> <u>10-11-21</u> _____ _____

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

Florida Atlantic University

Department of History

Fall 2022

History of Science

HIS 3462

CLASS DAYS/TIMES: Tuesdays/Thursdays: Time: TBD

3 Credits

Dr. Sandra Norman

AL 157, Ph: 7-2621, email norman@fau.edu

Office Hours: TBD

COURSE OBJECTIVE: This course is designed to introduce the student to the history of Natural History, as the study of science was called before it was broken into individual subjects. We will start at the beginning, when people first looked at the world around them and began to make assumptions and to make changes to their world. Then, using the earliest writings available we will look at how mystery, religion, myth, astrology and alchemy slowly separated into distinct fields that continued to overlap over the centuries. (Did you know that many Popes were astrologists, or that Sir Isaac Newton wrote more about alchemy than physics?) We will focus on the ancient Middle East, the Greeks and Romans, the Middle Ages, the rise of scientific thought, the great exploration journeys, and the rise of “Romantic” Science, up to the development of university-based science in the late 19th Century.

READINGS:

All readings will be posted on Canvas and are open access. No textbook purchase is necessary.

STUDENT ASSESSMENT

Exams - 25% each There will be two exams in the class that consist of identification and short essays. The Identification test the understanding of specific facts, while the essays examine your ability to gather and synthesize information

Presentation- 25% Everyone in the class will research a topic of interest (e.g., a person, a development, an event) and share that research in a short presentation to the entire class. Specific instructions will be provided on Canvas

Annotated Bibliography 20%. All of your research for the presentation will be collected into an annotated bibliography

Participation 5%

GRADING SCALE

A	93-100	A-	90-92	B+	87-89
B	83-86	B-	80-82	C+	77-79
C	73-76	C-	70-72	D+	67-69
D	63-66	D-	60-62	F	59 and below

MAKE-UP EXAMS - All exams are clearly marked on the syllabus. Make-up exams will not be allowed unless there is a documented emergency. Do not plan any scuba or ski trips during exams. They may be fun but they are not emergencies

CLASSROOM CONDUCT - Students are expected to turn off all electronic phones, pagers, etc. for the duration of the class. This is FAU policy and will be enforced. Students who take calls or otherwise disrupt the class will be asked to leave. Using laptops for the purpose of taking notes is allowed and encouraged. Students observed using their laptops to play games or e-mail will be asked to leave.

Attendance Policy Statement

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance.

Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Disability policy statement

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Code of Academic Integrity policy statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the

university mission to provide a high-quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001.

Grade breakdown

Test 1 – 25%

Test 2 – 25%

Presentation – 25%

Annotated Bibliography – 20%

In class participation – 5%

Aug. 23 Introductions and Expectations

Aug. 25 Defining Science

Aug 30 Looking at the world and wondering at what you see – Finding nature in the Bible and other Ancient Texts

Readings – please choose any religious text of your choice and read about the creation of the earth.

<https://www.Creationmyths.org/>

Sept. 01 The classical world – defining the elements, rise of medicine

Readings: “Galen: the Man and His times.” PDF

“Greek to Latin”. PDF

Sept. 06 Classical World – Roman period – a different view

Readings: “Science and Society in Ancient Rome.” pdf

Sept. 08 Baghdad – House of Knowledge

Reading from: John Freely, **Aladdin’s Lamp: How Greek Science Came to Europe through the Islamic World**

“Islamic Science and the 12th C. Renaissance” pdf.

- Sept. 13 Crusades and Movement of Knowledge
Read: "Science and world History – the Medieval Period" pdf
- Sept. 15 The Middle Ages – not so dark, looking for gold and medicine
Read: "Alchemy" pdf
- Sept. 20 Rise of Scientific Era of Observation
Read: "Anthony Van Leeuwenhoek". Pdf
"Copernicus to Galileo" pdf
"Robert Hooke" pdf
Medieval Medical Training and Texts (sofyalarus.info)
- Sept. 22 The Explorers – "there be dragons"
Read: "From Columbus to Acosta" pdf
"From Cabot to Cartier" pdf.
"New worlds" pdf.
- Sept. 27 Wealth of the new world – new images, new goods, new people
Read: How Aztecs Reacted to Colonial Epidemics | JSTOR Daily
- Sept. 29 First Exam
- Oct. 04 Conflicting worlds of science and Mythology
Read: "Making Order out of Plants" pdf.
- Oct. 06 Collecting in the New World
Read: "Maria Merian" pdf.
"Joseph Banks: Voyager and Patron of Natural History"

- Oct. 11 Science in Colonial America
Read: Extracts from “The Brother Gardeners” John Bartram, Botanist” pdf.
- Oct. 13 Organizing plants and animals
“Comte de Buffon” pdf
“Carl Linnaeus” pdf.
- Oct. 18 Visit to Special Collections
- Oct. 20 Deism and Science – The earth and mathematics
Read: from the biography of Newton pdf.
“Charles Lyell” pdf
- Oct. 25 Rise of the Royal Societies
Read: “Early Scientific Societies” pdf.
“Scientific Societies” pdf.
“The Royal Society and the voyage of HMS Endeavour” pdf
- Oct. 27 Era of Exploration
Read. “Hints to Travellers” pdf.
“Explorers and Professors” pdf.
“three voyages of Capt. Cook” pdf
- Nov. 01 Role of the Gentlemen Collectors
“Victorian Curiosities” pdf.

- Nov. 03 Darwin and Wallace
Read: "Darwin, Charles".pdf
Darwin's notebooks" pdf.
"Erasmus Darwin". pdf
"Voyage of the Beagle" pdf
"Voyage of the Plant Nursery, HMS Providence" Pdf
"Wallace, Alfred Russell" pdf.
- Nov. 08 Women of Natural History in the 19th Century
Read: "Isabelle Bird"
"Mary Anning"
Watch: Kew's Forgotten Queen - Marianne North
"<https://www.youtube.com/watch?v=nWqAZOpqBB0>
- Nov. 10 From Curio Cabinets to Museums – exhibiting Natural History
"Richard Owen"
"Sir Hans Sloan"
- Nov. 15 Science and the University
Read: Agassiz, Jean Louis Rodolphe.pdf
- Nov. 17 Test 2
- Nov. 22 Presentations
- Nov. 24 Thanksgiving Break—No Classess

Nov. 29 Presentations

Dec. 01 Presentations

FINAL EXAM PERIOD – Thursday Dec. 8-Wednesday, Dec. 14, 2022