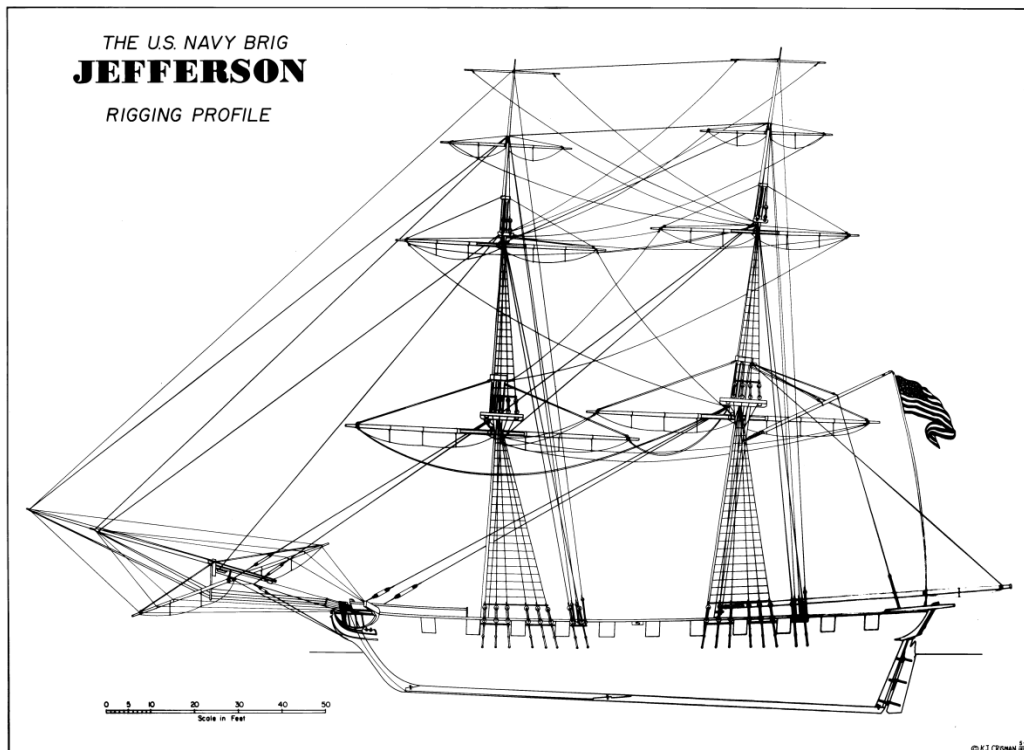


OUTFITTING and SAILING the WOODEN SHIP, 1400-1900

Anthropology 610

Syllabus and Schedule

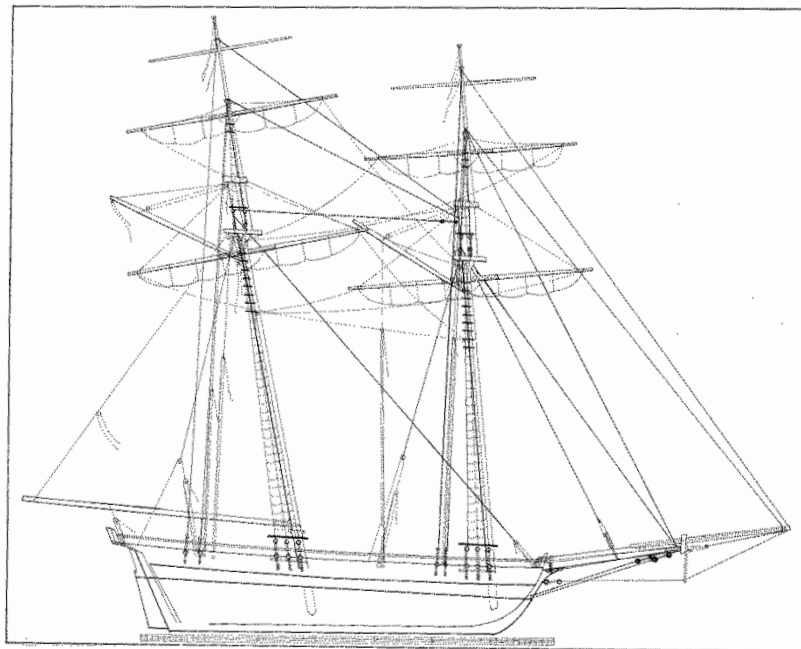


SPRING, 2013

When you are at home in the day time, or in the evening, you may, upon your paper with your black-lead pencil, raise a hundred models of supposition, which will bring your hand into the way of raising a model complete and handsome. And, likewise, you will by that come to be expert and perfect in giving allowance for the sweep of the mast heads, and blocks, and dead eyes and the like, that when you come to raise a model by a true proportion, you may go ahead without fear, for it will come to you with ease enough if you but take any pains at all to practice it.

Do not do as a great many do, buy books and be a little fond of them, and afterwards lay them aside, and never practice by them until you have occasion to make use of them, and then run head-long upon the work, so that there is one gross error upon another, and then impute the folly upon the book or the author, when the fault lies wholly in the want of practice. For, you can not be too perfect, because the rigging of a ship is a thing that cannot be done in secret, and you have many eyes upon you, and if you do not complete your work, it makes such a blot in your scutcheon that it will scarce ware out in seven years time.

Thomas Miller, *The Modellist*, 1667



Spring, 2013

Anthropology 610

OUTFITTING and SAILING the WOODEN SHIP, 1400-1900

Instructor: Dr. Kevin Crisman
Office Hours: Tuesday and Thursday 1-4 p.m.
or by appointment
The Prof's Office in Exile: 158 Read Building
☎ 979-845-6696 Office or 979-492-0751 Cell

This course will use archaeological and historical sources to examine the outfitting and sailing of wooden ships between 1400 and 1900, a period popularly known as "The Age of Sail." Emphasis will be placed upon two areas of particular interest to the nautical archaeologist: 1) the use, chronological development and nomenclature of seafaring technology; 2) the operational aspects of seafaring (the tools, techniques, and daily routines of seafarers during the Age of Sail).

Course Schedule:

Week 1. Introduction to Course and Sources for Research.

1. Review of the syllabus and course requirements.
2. Discussion of project research, drafting, writing and editing.

Lecture topic: Sources on the outfitting of ships and seafaring life, 1400-1900.

Week 2. Propelling the Ship, Part I.

Lecture topics: **Sailing Rigs, Masts and Spars.**

Reading for Weeks 2 and 3:

John Harland. *Seamanship in the Age of Sail* (London: Conway Maritime Press, 1984; reprinted 1992 by the Naval Institute Press, Annapolis), Read Chapters 2 and 3 (pp. 19-39).

- Reading to complete by Week 8 (there'll be a question or two on the first exam):
Captain Frank Hubert Shaw. *White Sails and Spindrift* (New York: The Odyssey Press, 1947). Copies can be signed out from my office.

Week 3. Propelling the Ship, Part II.

Lecture topics: **Spars (cont'd), Standing and Running Rigging.**

Reading:

Darcy Lever. *The Young Sea Officer's Sheet Anchor* (Leeds: Gill, 1808; many editions followed). Familiarize yourself with material covered on pp. 13-16, 50-53, 56 (esp. the blocks and ropes shown on Figs. 317 & 318), 57, 60, 63, 66.

Week 4. Propelling the Ship, Part III.

Lecture topics: **Standing and Running Rigging (cont'd), Sails.**

Reading:

David Steel. *Steel's Elements of Mastmaking, Sailmaking and Rigging* (From the 1794 Edition) (Largo, Fl.: Edward Sweetman Co., 1982). Pages 58-74 provide a late-18th century overview of the sailmaking materials, tools, and techniques.

Week 5. Propelling the Ship, Part IV.

Lecture topic: **Marine Steam Engines.**

Reading:

Cedric Ridgely-Nevitt. *American Steamships on the Atlantic* (Newark: University of Delaware Press, 1981). Read Chapter 1 (pp. 13-51).

Week 6. Propelling the Ship, Part V.

Lecture topic: **Reconstructing the Heroine's Steam Engine.**

Guest Lecture by Glenn Grieco.

Reading:

Adam I. Kane. *The Western River Steamboat* (College Station: Texas A&M University Press, 2004). Skim chapters 3 and 4, but focus on pp. 67-83.

Week 7. The Equipment of a Ship, Part I.

Lecture topics: **Steering; Centerboards, and Ground Tackle.**

Reading:

Brian Lavery. *The Arming and Fitting of English Ships of War, 1600-1815* (London: Conway Maritime Press, 1987). Read Parts I and II (pp. 9-50).

William Brady. *The Kedge-Anchor or Young Sailors' Assistant* (New York: Published by the Author, 1849; Dover Reprint, 2002). Handling cables and anchors discussed pp. 104-113, 149-152, 155, 163, 191-197, 201, 224, 247, 290-291.

Week 8. The Equipment of a Ship, Part II.

Lecture topics: **Pumps and Small Boats.**

Reading:

Lavery. *Arming and Fitting*. Read Parts IV and X (pp. 66-72, 207-232).

Thomas Oertling. *Ships' Bilge Pumps, A History of Their Development, 1500-1900* (College Station, Tx.: Texas A&M University Press, 1996). Have a look through this.

W. E. May. *The Boats of Men-of-War*. London: Chatham, 1974 and 1999). Have a look through this, too.

Brady. *The Kedge-Anchor*. Boat handling pp. 152-153, 240-246, 326.

- Short examination on class readings and lectures.
- Project 1 paper due on Friday, March 8 at 5 p.m.
- Reading to complete by Week 14 (there'll be a question or two on the final exam): Daniel S. Parrott. *Tall Ships Down: The Last Voyages of the Pamir, Albatross, Marques, Pride of Baltimore, and Maria Asumpta* (Camden, Maine and New York: International Marine and McGraw-Hill, 2004). Copies can be signed out from the my office.

Week 9. External Hull Maintenance.

Lecture topic: **Nathaniel Uring’s near-disaster: Hull Maintenance and Sheathing.**

Reading:

Lavery. *Arming and Fitting*. Read Part III (pp. 56-62).

Miscellaneous authors. Binder with offprints of sheathing articles, NAP Library Reserve.

Week 10. Lading the Ship.

Lecture topics: **Ballast; containers; stowage.**

Reading:

Lavery. *Arming and Fitting*. Read Part IX (pp. 186-206).

Brady. *The Kedge-Anchor*. Read 103-104.

Week 11. Drafting in the Ship Lab Day.

No lecture.

Week 12. Defending the Ship.

Lecture topic: **Ordnance and options: Fight, flee, or surrender.**

Reading:

Lavery. *Arming and Fitting*. Read Parts V, VI, and VII (pp. 80-144).

Week 13. Coping with Disasters.

Lecture topic: **Common seagoing disasters and their remedies.**

Reading:

Harland. *Seamanship*. Read Chapter 22 (pp. 294-312).

Brady. *The Kedge-Anchor*. To get an idea of sea hazards and how to handle them, look over Parts V, VI, and VII (pp.171-228).

☞ Attendance of all classes and participation in discussions are highly encouraged.

The Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Room 126 of the Student Services Building. The telephone number is 845-1637.

Academic Integrity Statement:

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”

Any questions about this?

See the Student Honor Council Rules and Procedures on the web at <http://www.tamu.edu/aggiehonor>

Outfitting and Sailing the Wooden Ship, 1400-1900: Course Requirements

This course will meet once a week on Thursday mornings from 9 to 12 for lectures by Dr. Crisman or guest speakers. Questions and comments are strongly encouraged, as is the taking of detailed notes (two short exams will test your knowledge of the material covered in the lectures and readings). Outside of class your attention should be directed to two projects (described below). Project 2 will be especially time-intensive, and all participants are encouraged to *get an early start* on the research and drafting. Please keep Dr. Crisman up to date on your progress and bring in drawings for regular review.

Project 1. Read and review of a primary account of seafaring (a journal or memoir) (30% of final grade)

Select an original journal or memoir describing a voyage, a series of voyages, or a career at sea (see the Hakluyt Society publications for examples). Your selection must be approved by Dr. Crisman beforehand. Prepare a 10 to 20 page review (following the term paper guidelines) that provides a historical context for the account and summarizes the book's contents, highlighting references to the outfitting and sailing of vessels. This might include, but does not have to be limited to, the topics listed in your syllabus. What does this account tell us about contemporary ship construction and seafaring technology, seafaring practices, or shipboard life and routines? How useful is it likely to be for nautical archaeologists? What is the writer's viewpoint – officer, ordinary sailor, or passenger? What motivated the author to write this account? How reliable does it appear to be?

Your paper should be more than just a narrative that summarizes the book's contents. I will be expecting synthesis and analysis of the account. Reference specific pages in your text. Be scholarly and informative, yet succinct. Maps or tables summarizing voyages, vessel types, duties, or other types of data are welcome. Begin looking for your book Week 1. Complete selection and approval by Week 3. Review are due **Week 8, by 5 p.m. on Friday, March 8**. Late papers will receive a lower grade.

Project 2. Prepare a spar and rigging plan for a sailing vessel circa 1400-1900 (60% of final grade: 30% rig plans and 30% rig paper)

Select a naval or merchant vessel, preferably one with a set of lines drawings, and reconstruct the sailing rig. Tables of spar dimensions or rules of proportions can be found for many vessel types, but your evidence should also include contemporary illustrations and documents, and (of course) archaeological data. Your reconstruction may depend heavily upon *informed* conjecture. Seek out as many sources (especially archaeological sources) as possible and build a strong case for the dimensions, arrangement, and components of your ship's rig.

Your final results will consist of a minimum of two inked plans: 1) a mast and spar profile, and 2) the mast and spar profile showing standing and running rigging. Other drawings of rigging details are welcome. This project also includes preparation of a 10 to 20 page paper (following term paper guidelines), describing the elements, dimensions and qualities of your rig, and reviewing the evidence upon which you based your reconstruction. This is a scholarly paper - cite your sources and include a bibliography.

Your final grade will be based upon the thoroughness of your research, the detail, accuracy and neatness of your finished products and the quality and scholarship of your paper. The degree of difficulty of your project will also be factored into the final grade. You should have a hull and rig type selected no later than Week 4 (this must be approved by Dr. Crisman). The final products (inked drawings and paper) are due by 5 p.m. on **Friday, April 26 by 5 p.m.** Late projects will receive a lower grade.

4. Two short exams. 10% of final grade.

Your knowledge of the topics covered in this class, as well as your diligence in taking notes and reading, will be tested in two short exams (5% of final grade each) on **March 8 and May 2**. These are closed book exams, bring yourself and a pencil or pen.