ANTH 3358: Underwater Archaeology

Monday/Wednesday/Friday
11-11:50 PM
104 University Hall

Professor: Dr. Ashley Lemke
Email: ashley.lemke@uta.edu
Office: 422 University Hall
Laboratory: 20 University Hall
Department Telephone Number: 817-272-2661
Office Hours: Wednesdays 10-10:50 AM, or by appointment (please email)

Course Description

Archaeologists learn about past societies by examining the material they leave behind. These materials can include anything affected by human behavior — from small disturbances in the soil to architectural remains, from sacred objects to the mundane refuse of daily life. In some cases this material adds to what we know from historical accounts, but most often, archaeology gives us a picture of the past that we would never otherwise see. Underwater sites offer some of the best preserved but most challenging archaeological contexts to research. This course will introduce students to archaeology underwater, including methods, research questions, great discoveries, and the history of investigation. It will cover vast stretches of time and space, from historic shipwrecks in the Mediterranean to >10,000 year old prehistoric sites in North and South America. Underwater archaeology is an emerging field in anthropology more generally – and this course will explore its important role in the future of archaeology.
Course Organization and Requirements

Participation & In-Class Exercises: 20%
Over the course of the semester, there will be several in-class exercises. These exercises are used to reinforce concepts discussed in lecture and readings, and to give students a more practical experience of archaeological issues. These exercises will be equally weighted. These activities cannot be made up later for credit if a class is missed, however, up to two missed exercises will be excused without penalty. Any more missed exercises will have a negative effect on the grade.

Attendance Policy: There is no separate attendance grade for this class, but these exercises require class attendance (see below)

Short Papers: 30%
Two short papers (2 – 4 double spaced pages each) will allow you to apply your creativity to further explore the archaeological experience and interpretation of the past.

Midterm Exam: 25%
The midterm examination will cover the reading, lecture, and discussion of the first half of the course. This and the final will be mixed format (multiple choice, fill-in the blank, and short essay).

Final Exam: 25%
The final exam will be cumulative, with an emphasis on the latter half of the course.

Grading Scale: Your total course grade will be determined based on the following scale:

<table>
<thead>
<tr>
<th>Grade Percentage</th>
<th>Letter Grade</th>
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<tr>
<td>90% and higher</td>
<td>A</td>
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<tr>
<td>80 to 89%</td>
<td>B</td>
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<td>70 to 79%</td>
<td>C</td>
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<td>60 to 69%</td>
<td>D</td>
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<tr>
<td>Less than 60%</td>
<td>F</td>
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0.5% is round to the next higher grade

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog. See, http://catalog.uta.edu/academicregulations/grades/#undergraduatetext

Required Readings

There is only one required book for this course: After the Storm, by Ernest Hemingway.

All other readings will be made available electronically. While not core archaeology textbook is required, the volumes by Gould, Green, and Bowens are particularly important and student with a serious interest in the topic may wish to purchase one or more of them.

Full bibliography at the end of syllabus.
<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Readings/Assignments</th>
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<tbody>
<tr>
<td>22 Jan</td>
<td>Introduction to the course</td>
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<tr>
<td>24 Jan</td>
<td>Introduction to Archaeology</td>
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<tr>
<td>27 Jan</td>
<td>Why are some archaeological sites underwater?</td>
<td>Bass 1966</td>
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<td>29 Jan</td>
<td>History of Underwater Research Part 1</td>
<td>Broadwater 2002</td>
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<td>30 Jan</td>
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<td>3 Feb</td>
<td>History of Underwater Research Part 2</td>
<td>Gibbs 2006</td>
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<td>5 Feb</td>
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<td>7 Feb</td>
<td>“”</td>
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<tr>
<td>10 Feb</td>
<td>Underwater Archaeological Methods: Survey</td>
<td>Institute for Marine Acoustics SSS Primer (website); Green 2004</td>
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<td>12 Feb</td>
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<tr>
<td>14 Feb</td>
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<tr>
<td>17 Feb</td>
<td>Underwater Archaeological Methods: Mapping</td>
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<td>19 Feb</td>
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<tr>
<td>21 Feb</td>
<td>“”</td>
<td>First Short Paper Due</td>
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<td>26 Feb</td>
<td>“”</td>
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<td>28 Feb</td>
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<tr>
<td>2 Mar</td>
<td>Types of Archaeological Research Underwater</td>
<td>Finish Hemingway</td>
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<td>4 Mar</td>
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<td>6 Mar</td>
<td>MIDTERM</td>
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<td>9 Mar</td>
<td>NO CLASS - SPRING BREAK</td>
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<tr>
<td>11 Mar</td>
<td>NO CLASS - SPRING BREAK</td>
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<tr>
<td>13 Mar</td>
<td>NO CLASS - SPRING BREAK</td>
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Due to the COVID-19 events, this course switched to online modality as of March 23, 2020. As a result, the assignments from March 23 to the end of the semester will be adjusted to reflect this change. Please note the changes made in the assignments as indicated by (highlighting? different font? etc.). The instructor reserves the right to make additional changes to the assignments or grading schema as needed to complete this course on time and respond to university policies.

| WEEK 1 | Nautical Archaeology: Ship Construction & Wreck Sites | O'Shea 2002, 2004  
|        |                                                   | Ship Construction Terms Due Sunday 11:59PM  
|        |                                                   | O'Shea Reading Questions Due Sunday 11:59PM |
| WEEK 2 | Wreck Sites: Pirates Shipwrecks vs. Prehistoric   | Benjamin 2010, Faught 2010  
|        |                                                   | Second Short Paper Topic Due Sunday 11:59PM |
| WEEK 3 | Early Seafaring                                   | Assignment Due Sunday 11:59PM |
| WEEK 4 | Coastal Adaptations & Climate Change              | Gaffney et al. 2007  
|        |                                                   | Second Short Paper Due Sunday 11:59PM |
| WEEK 5 | Global Human Expansion                            | Flatman & Evans 2014; Carabias et al. 2014 |
| WEEK 6 | Human Remains Underwater                          | Assignment Due Sunday 11:59PM |
| WEEK 7 | The Future of Underwater Archaeology               | Assignment Due Sunday 11:59PM |
| 13 May | FINAL EXAM                                        | Details TBD |

Course Policies and Useful Information

**Academic Integrity:** As a student of the University of Texas at Arlington, you are expected to maintain the highest standards of academic integrity. Any instance of academic dishonesty will have a significant negative impact on your scholastic record, and your grade in this course. Discipline may include a failing grade for the class together with either suspension or expulsion from the university. Any and all academic misconduct will be reported to the Office of Student Conduct. This course has a zero-tolerance policy for cheating or plagiarism.

The Board of Regents has defined academic dishonesty as follows: “Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.” (Regents’ Rules and Regulations, Series 50101, Section 2.2). All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

*I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*
I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

**Late Work:** Assignments are graded down **10%** of their value per day after the due date.

**Make-Up Tests:** There are no make-up tests. If a serious illness, emergency situation, jury duty, or military service obligation arises that prevents you from attending the midterm or the final, contact me immediately. Lying about such an emergency will be considered academic dishonesty, and will result in a failing grade.

**Attendance:** Although there is no attendance grade, missing in-class assignments will negatively impact your grade (as described above). Some assignments or exercises may happen at the beginning of the class. If you miss these activities by arriving late or leaving early you will **not be able to make them up**.

**Disability Accommodations: Contact me early in the semester.** UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA), and Section 504 of the Rehabilitation Act. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

**The Office for Students with Disabilities, (OSD)** [www.uta.edu/disability](http://www.uta.edu/disability) or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability).

**Counseling and Psychological Services, (CAPS)** [www.uta.edu/caps/](http://www.uta.edu/caps/) or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

UTA students are encouraged to review the below institutional policies and informational sections and reach out to the specific office with any questions. To view this institutional information, please visit the Institutional Information page ([https://resources.uta.edu/provost/course-related-info/institutional-policies.php](https://resources.uta.edu/provost/course-related-info/institutional-policies.php)) which includes the following policies among others:

- Drop Policy
- Disability Accommodations
- Title IX Policy
- Academic Integrity
- Student Feedback Survey
- Final Exam Schedule

**In Case of Emergency**
In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911. Non-emergency number 817-272-3381.

Library Information

Research or General Library Help
Ask for Help
- Academic Plaza Consultation Services (library.uta.edu/academic-plaza)
- Ask Us (ask.uta.edu/)
- Research Coaches (http://libguides.uta.edu/researchcoach)

Resources
- Library Tutorials (library.uta.edu/how-to)
- Subject and Course Research Guides (libguides.uta.edu)
- Librarians by Subject (library.uta.edu/subject-librarians)
- A to Z List of Library Databases (libguides.uta.edu/az.php)
- Course Reserves (https://uta.summon.serialssolutions.com/#!/course_reserves)
- Study Room Reservations (openroom.uta.edu/)

Librarian to Contact
Each academic unit has access to Librarians by Academic Subject that can assist students with research projects, tutorials on plagiarism and citation references as well as support with databases and course reserves.

Bibliography

Bass, G. C.


Benjamin, Jonathan
2010 Submerged Prehistoric Landscapes and Underwater Site Discovery: Reevaluating the 'Danish Model' for International Practice. Journal of Island and Coastal Archaeology 5 (2):253-270.

Broadwater, J.
Bowens, A.

Carabias et al.
2014 Submerged Paleoloscapes: Site GNL Quintero I (GNLQ1) and the First Evidences from the Pacific Coast of South America, in *Prehistoric Archaeology on the Continental Shelf: A Global Review*, Evans, A.M., Flatman, J. C., and N. C. Flemming (Eds), Springer, pp. 131-150.

Cavers, M. G. and J. G. Henderson

Faught, Michael

Flatman, J. C., and A. M. Evans

Gaffney, V., Thomson, K., and S. Fitch

Gibbs, M.

Gould, R.
2012 *The Archaeology and Social History of Ships*, Chapter 1 Interpreting the Underwater Archaeological Record, pp. 7-20.

2012 *The Archaeology and Social History of Ships*, Chapter 2 Underwater Archaeology: the State of the Art, pp. 21-64.

Green, J.

Greenhill, B.

Muckelroy, K.

O'Shea, J. M.

O'Shea et al.