

INTRODUCTION TO MARITIME ARCHAEOLOGY

SPRING 2014
DEPARTMENT OF ANTHROPOLOGY
THE GEORGE WASHINGTON UNIVERSITY

SCHEDULE

Tuesday 7:10-9:00 PM
Thursday 7:10-9:00 PM

LOCATION

Hortense Amsterdam House (202)
Old Main (305)

INSTRUCTOR

Dr. Alexis Catsambis
E-mail: (acatsambis@gwu.edu)
Phone: 979 777 4637 (cell)

OFFICE HOURS

HAH Tuesday 6:00-6:45 PM
Old Main Thursday 6:00-6:45 PM
Other Times by Appointment

COURSE DESCRIPTION

Maritime archaeology combines the principles and techniques applied to archaeological investigations on land with technological and methodological innovations that have enabled the comprehensive study of submerged and coastal sites. This relatively new and continuously evolving sub-discipline developed in the mid-20th century and has now grown to include practitioners throughout the world, with research subjects extending from submerged pre-historic sites to sunken craft from World War II. This course will introduce students to the history, theory, basic techniques, and current state of maritime archaeological research. In addition, the course will stress the importance of archaeological conservation and artifact analyses, as well as introduce students to submerged cultural heritage policy and the ethical and practical challenges associated with preserving these non-renewable cultural resources. Discussion will incorporate the archaeological record of the United States but will also include international examples and perspectives in order to offer students a more comprehensive understanding of the field. Throughout the course, lectures and readings will address how maritime archaeology relates to other disciplines within anthropology and beyond, as well as the role this sub-discipline serves in our society today.

Each class will include a lecture from your instructor or guest lecturer, as well as a discussion session. Assigned readings will form the basis of the sessions and should be given close attention. While the overall course grade will also be based on assignments, examinations, and a presentation, the seminar-nature of this course means that class participation is particularly important.

PREREQUISITES

- At least one introductory course in archaeology or prior approval by instructor.

TEXTS

Readings are to be completed by the assigned class period noted in the course schedule and form the framework for class discussion. Beyond the required texts, digital copies of additional readings will be provided via Blackboard throughout the course of study:

Required Texts

- Bowens, Amanda (ed.). 2009. *Underwater Archaeology: The NAS Guide to Principles and Practice* (2nd Edition). The Nautical Archaeology Society. Blackwell Publishing. (NAS)
- Catsambis, Alexis, Ben Ford, and Donny L. Hamilton. 2011/2014. *The Oxford Handbook of Maritime Archaeology*. Oxford University Press: Oxford. (OHMA)

Additional Readings

- Babits, Lawrence and Hans Van Tilburg. 1998. *Maritime Archaeology: A Reader of Substantive and Theoretical Contributions*. Plenum Press: New York.
- Bass, George (ed.). 2005. *Beneath the Seven Seas: Adventures with the Institute of Nautical Archaeology*. Thames & Hudson: New York.
- Bass, George (ed.). 1996. *Ships and Shipwrecks of the Americas*. Thames & Hudson: New York.
- Bass, George. 1987. Oldest Known Shipwreck Reveals Splendors of the Bronze Age. In *National Geographic* 172(6): 692-733.
- Bass, George (ed.). 1972. *A History of Seafaring: Based on Underwater Archaeology*. Thames & Hudson: London.
- Conlin, David and Stephen Lubkemann. 2009. What's Relevant about Underwater Archaeology...and not about Treasure Hunting. In *Anthropology Newsletter* (April): 64-65.
- Cronyn, J.M. 1990. *Elements of Archaeological Conservation*. Routledge: New York.
- Ford, Ben (ed.). 2011. *The Archaeology of Maritime Landscapes*. Springer: New York.
- Gould, Richard A. 2011. *Archaeology and the Social History of Ships*. Cambridge University Press: New York.
- Hall, Jerome. 2007a. The Black Rhino. In *Journal of Maritime Archaeology* 2(2):93-97.
- Hall, Jerome. 2007b. The Fig and the Spade: Countering the deceptions of treasure hunters. In *AIA Archaeology Watch* (August 15):1-10.
- Hamilton, Donny. 1996. *Basic Methods of Conserving Underwater Archaeological Material Culture*. University of Michigan Library. (March 2010 edition freely available online at <http://nautarch.tamu.edu/CRL/conservationmanual/>).
- Hocker, Fred and Cheryl Ward (eds.). 2004. *The Philosophy of Shipbuilding: Conceptual Approaches to the Study of Wooden Ships*. Texas A&M University Press: College Station, TX.
- Jameson, John. H. and Della A. Scott-Ireton (eds.). 2007. *Out of the Blue: Public Interpretation of Maritime Cultural Resources*. Springer: New York.
- Johnston, Paul F. 1993. Treasure Salvage, Archaeological Ethics and Maritime Museums. In *International Journal of Nautical Archaeology* 22(1): 53-60.
- Joiner, James T. 2004. *NOAA Diving Manual: Diving for Science and Technology* (4th Edition). National Oceanic and Atmospheric Administration. Best Publishing Company: Flagstaff, AZ.
- King, Thomas F. 2005. *Doing Archaeology: A Cultural Resource Management Perspective*. Left Coast Press: Walnut Creek, CA.
- Muckelroy, Keith. 1979. *Maritime Archaeology*. New Studies in Archaeology Series. Cambridge University Press: London, UK.
- National Association of Underwater Instructors. 2000. *NAUI Master Scuba Diver*.
- Page, Jeremy. 2013. Chinese Territorial Strife Hits Archaeology. In *The Wall Street Journal* (Dec. 2 2013).
- Pearson, Colin (ed.). 1987. *Conservation of Marine Archaeological Objects*. Butterworths: London, UK.
- Pulak, Cemal. 1997. The Uluburun Shipwreck: An Overview. In *The International Journal of Nautical Archaeology* 27(3):188-224.
- Renfrew, Colin and Paul Bahn. 2012. *Archaeology: Theories, Methods, and Practice* (6th Edition). Thames & Hudson: London, UK.
- Rodgers, Bradley A. 2006. *The Archaeologist's Manual for Conservation: A Guide to Non-Toxic Minimal Intervention Artifact Stabilization*. Kluwer Academic/Plenum: New York.
- Ruppé, Carol V. and Janet F. Barstad. 2002. *International Handbook of Underwater Archaeology*. Kluwer Academic / Plenum Publishers: New York.
- Sebastian, Lynne and William D. Lipe. 2009. *Archaeology & Cultural Resource Management*. School for Advanced Research Press: Santa Fe.

- Steffy, J. Richard. *Wooden Shipbuilding and the Interpretation of Shipwrecks*. 1998 Texas A&M University Press: College Station, TX.
- Stipe, Robert E. (ed.). 2003. *A Richer Heritage: Historic Preservation in the Twenty-First Century*. The University of North Carolina Press: Chapel Hill.
- Todd, Sharon L., Tiffany Cooper and Alan R. Graefe. 2001. *Scuba Diving & Underwater Cultural Resources: Differences in Environmental Beliefs, Ascriptions of Responsibility, And Management Preferences Based On Level of Development*. In *Proceedings of the 2000 Northeastern Recreation Research Symposium*. Gen. Tech. Rep. NE-276. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 131-140.
- Toner, Mike. 2011. *The Battle for the Dunkirk Schooner*. In *American Archaeology* 15(3):12-19.
- United Nations Convention on the Protection of the Underwater Cultural Heritage. 2001.

GRADING STRUCTURE

Grading will be based on 2 quizzes, 2 assignments (Presentation Abstract & Assessment of Professional Opportunities), 2 exams, 1 presentation, and participation in class discussion. Please contact your instructor if you have any questions on your assessments or would like further guidance on any of the material covered during the class.

Assignment 1	20 Points (5%)
Assignment 2	20 Points (5%)
Quiz 1	20 Points (5%)
Quiz 2	20 Points (5%)
Exam 1	80 Points (20%)
Exam 2	80 Points (20%)
Presentation	100 Points (25%)
Class Participation	60 Points (15%)
TOTAL	400 Points (100%)

GRADE DISTRIBUTION

A (90-100%)	= > 360 Points
B (80-89%)	= 320 – 359 Points
C (70-79%)	= 280 – 319 Points
D (65-69%)	= 260 – 279 Points
F (0-64%)	= < 259 Points

ASSIGNMENTS & EXAMINATIONS

Class Readings & Participation

The field of maritime archaeology is broad, diverse, and multi-faceted. This introductory course aims at establishing a foundational understanding of the development and current state of the field. In order for the course to be effective, please place particular emphasis on the required readings, and be prepared to discuss them in class on the assigned day. The objective is not to remember every detail of the subjects presented in the readings, but retaining general concepts, areas of significance, and an overview of sites discussed are all important. Discussion surrounding the required readings will form part of your participation grade, while subject matter covered in the readings will feature in your examinations. Certain readings fall under the heading of “Applicable Readings” and are intended to provide you with an avenue to explore a subject of interest further. A quick review of applicable readings will help prepare you for class and offer you a better understanding of the subject. This is particularly true in Sessions 8, 9 and 10 when case studies will be examined. Each student will be responsible for a c. 3-5 minute review of 3 separate readings throughout the semester that will form the basis for discussion sessions. Reviews will begin on January 16th and continue for the duration of the course. The 3 reviews combined will comprise half of the class participation component of your grade (30 points or 7.5%). A sign-up form will be provided through Blackboard and each student may choose readings that cater to their particular interests. Finally, each student will have to prepare 3 questions for each of the guest lecturers presenting on different sectors of the field near the end of the semester.

Presentation and Abstract

Each student will deliver a 15-minute presentation (**March 25th – April 3rd**) on a topic of their choice regarding a current or recently completed underwater or maritime archaeological investigation. The topic of each presentation will be selected by **February 20th**, when an abstract for the presentation must be submitted in hard copy for approval (*Assignment 1*). The abstract is worth 20 points (5%) of your overall course grade. Final scheduling of the presentation will depend on review and categorization of presentation abstracts and will be determined by your instructor. The presentation should be accompanied by a Power Point slideshow and both the abstract and the presentation should reflect the format of a paper offered at a professional conference (e.g. Society of Historical Archaeology, Archaeological Institute of America, Society for American Archaeology, etc.). The presentation should include a discussion of research questions, methodologies followed, and results obtained. Students are expected to follow the rules and decorum of a national conference, including dress, and should present a rehearsed talk rather than reading a script. Strict adherence to the time limit is expected and presenters should be prepared to answer questions on their talk from the audience. The presentation is worth 100 points (25%) of the overall course grade.

Assessment of Graduate & Professional Opportunities

The final lecture of this course will focus on graduate programs dedicated to (maritime) archaeology, as well as professional opportunities in the field. Students pursuing majors other than anthropology or archaeology may elect to review programs and opportunities in their respective fields that relate to cultural heritage. In order to enhance class discussion in preparation for this session each student will be expected to review academic programs and current job postings and prepare a brief description of five (5) separate graduate or professional opportunities within the academic, public, and/or private sectors (*Assignment 2*). Each academic program description should consist of no more than a paragraph and include information on the university, the specific graduate program and degrees offered, desired qualifications and requirements, and geographic location. Each professional opportunity description should also consist of no more than a paragraph and include the name and description of the institution or firm, a summary of the position and its general duties, and other pertinent information such as desired experience and qualifications, travel requirements, and geographic location. The assignment is due on **April 24th** in hard copy, and students should be prepared to discuss the opportunities they reviewed during the class held on that day. This assignment is worth 20 points (5%) of the overall course grade.

Quizzes & Final Exam

There will be four knowledge-based assessments during the course, in the form of two quizzes and two exams. The first quiz, scheduled for **January 28th**, will focus on terminology pertinent to submerged cultural resources and ship construction, as well as milestones and important personalities discussed when reviewing in the development of maritime archaeology. The second quiz, scheduled for **April 24th**, will be dedicated to material presented in class during the preceding lectures by guest speakers. Each quiz will consist of 20 multiple-choice or short-answer questions to be completed within 15 minutes and will each be worth 20 points (5%) of the overall course grade.

The first exam, scheduled for **February 20th**, will focus on survey and excavation methodologies, as well as case studies that illustrate the development and present state of maritime archaeology. The second exam, held on **March 20th**, will focus on conservation of archaeological material, historic preservation issues, and resource management. Each exam will be scheduled for a full class session and include multiple-choice, short-answer, short-essay and answer-matching questions that will cover material presented during the course and in the respective readings. Each exam is worth 80 points (20%) of the overall course grade.

POLICIES*Attendance, Participation, Late Assignments and Classroom Etiquette.*

Attendance is not mandatory, but strongly encouraged as lectures will cover material that is not included in the readings and will be present on examinations. Class discussion is also an opportunity to clarify questions you may have regarding the readings or assignments. Assignments and readings are due on the day indicated in the course schedule. Late assignments and make-up examinations will only be accepted or scheduled with documentation of a university-approved absence. The classroom is a place of learning where intellectual discourse and input from multiple perspectives is valued. Please respect your peers and do not engage in behavior that is disruptive, offensive, or otherwise discourteous. Please feel free to approach your instructor at any time if you have any pertinent concerns or questions.

Academic Dishonesty

As described in The George Washington University's Codes of Student Conduct and Academic Integrity, certain standards of academic integrity and honesty are essential within our community (<http://gwired.gwu.edu/osjs/Policies/CodeofStudentConduct>). It is your responsibility to know what constitutes a violation of these standards. As a first step, your instructor will seek to resolve any incidents of academic dishonesty directly, but you should expect to earn no points for the work involved in such incidents and be aware that further penalties and disciplinary action may be pursued.

COURSE SCHEDULE

DATE	TOPIC & READINGS	ASSIGNMENTS
JAN 14 HAH 202	Session 1 Syllabus & Introduction to Maritime Archaeology	
JAN 16 OM 305	Session 2 The Development of Maritime Archaeology <i>Readings Due</i> <ul style="list-style-type: none"> • NAS Chapter 2 • OHMA Introduction <i>Applicable Readings</i> <ul style="list-style-type: none"> • Gould Chapter 1 • Muckelroy Chapter 1 	
JAN 23 HAH 202	Session 3 Maritime Cultural Resources & Site Formation Processes <i>Readings Due</i> <ul style="list-style-type: none"> • NAS 4 • OHMA Chapters 2, 33 <i>Applicable Readings</i> <ul style="list-style-type: none"> • Ford Introduction • Gould Chapter 2 • OHMA Chapters 8, 35 	

<p>JAN 28 OM 305</p>	<p>Session 4 Shipbuilding & The Interpretation of Shipwrecks <i>Readings Due</i></p> <ul style="list-style-type: none"> • OHMA 1 • Muckelroy Chapter 6 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Gould Chapter 3 • Hocker & Ward Chapter 3 • Steffy Chapters 1, 2, 6 	<p>Quiz 1: Terminology & Milestones</p>
<p>JAN 30 HAH 202</p>	<p>Session 5 Scientific Diving & Operating in an Underwater Environment <i>Readings Due</i></p> <ul style="list-style-type: none"> • Babits & Van Tilburg Chapter 30 • Muckelroy Chapter 2 • NAUI Chapter 2 (34-48) <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • NOAA Diving Manual Chapters 1, 2 	
<p>FEB 4 OM 305</p>	<p>Session 6 Underwater Archaeological Survey Methods <i>Readings Due</i></p> <ul style="list-style-type: none"> • NAS Chapters 8, 12, 13, 14 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • OHMA Chapters 3, 4, 5 	
<p>FEB 6 HAH 202</p>	<p>Session 7 Underwater Archaeological Excavation Methods <i>Readings Due</i></p> <ul style="list-style-type: none"> • NAS Chapters 15 • OHMA Chapter 6, 9 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Steffy Chapter 7 	
<p>FEB 11 OM 305</p>	<p>Session 8 Case Studies: Pre-Classical, Classical Sites & Medieval Sites <i>Readings Due</i></p> <ul style="list-style-type: none"> • OHMA Chapters 16, 17, 18 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Bass (2005) (28-141) • Bass (1972) Chapters 1, 2, 3, 6, 7 • Steffy Chapters 3, 4 	
<p>FEB 13 HAH 202</p>	<p>Session 9 Case Studies: Medieval & Post-Medieval Sites <i>Readings Due</i></p> <p>• OHMA Chapters 18, 20</p> <p><i>Applicable Readings</i></p> <p>• Steffy Chapter 4</p>	
<p>FEB 18 OM 305</p>	<p>Session 10 Case Studies: Post-Medieval, Colonial & Modern Sites <i>Readings Due</i></p> <ul style="list-style-type: none"> • OHMA Chapters 20, 27, 29, 31 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Bass (2005) (142-245) • Bass (1996) Chapters 5, 8, 9, 11 • Steffy Chapter 5 	

<p>FEB 20 HAH 202</p>	<p>Session 11 EXAM 1: Methodology & Case Studies</p>	<p>Exam 1</p>
<p>FEB 25 OM 305</p>	<p>Session 12 Conservation of Archaeological Materials from Underwater Sites <i>Readings Due</i></p> <ul style="list-style-type: none"> • NAS Chapter 16 • OHMA Chapter 13 • Hamilton 2010 “Overview of conservation in archaeology” • Rodgers Introduction & Chapter 1 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Pearson Chapter 1 	<p>Assignment 1: Presentation Abstract Due</p>
<p>FEB 21/26 HAH 202</p>	<p>Session 13 Conservation of Archaeological Materials from Underwater Sites <i>Readings Due</i></p> <ul style="list-style-type: none"> • Hamilton 2010 “Wood Conservation”, “Metal Conservation: Preliminary Steps”, “Iron Conservation: Parts I & II”, “Cupreous Metal” <p><i>Class Visit to the NHHC Archaeology & Conservation Laboratory</i> <i>No Session at GWU Campus</i></p>	
<p>FEB 27 OM 305</p>	<p>Session 14 Artifact Classification, Dating, and Analysis <i>Readings Due</i></p> <ul style="list-style-type: none"> • NAS Chapter 19 • NAS Appendix 2 • OHMA Chapter 10 • Pulak 1998 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Bass 1987 	
<p>MAR 4 HAH 202</p>	<p>Session 15 Museums, Public Outreach & Site Interpretation <i>Readings Due</i></p> <ul style="list-style-type: none"> • NAS Chapter 20 • OHMA Chapters 45, 46 • Renfrew Chapter 14 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Jameson & Scott-Ireton Chapters 1 & 2 • Todd, Cooper & Graefe 2001 <p><i>Potential Class Visit to the National Museum of American History</i></p>	
<p>MAR 6 OM 305</p>	<p>Session 16 Historic Preservation, Ethics & Submerged Cultural Resources <i>Readings Due</i></p> <ul style="list-style-type: none"> • NAS Chapter 7 • OHMA Chapter 40 • Babits & Van Tilburg Chapter 9 • Stipe Introduction & Chapter 1 • Nosengo 2010 <p><i>Applicable Readings</i></p> <ul style="list-style-type: none"> • Ruppé & Barstad Chapter 42 • Sebastian & Lipe Chapter 3 	

MAR 11	NO CLASS SPRING BREAK	
MAR 13	NO CLASS SPRING BREAK	
MAR 18 HAH 202	Session 17 Submerged Cultural Heritage Management Challenges <i>Readings Due</i> <ul style="list-style-type: none"> • OHMA Chapter 44 • Conlin & Lubkeman 1999 • Hall 2007a & 2007b • Johnston 1993 • Toner 2011 • Page 2013 • UNESCO Convention on the Protection of the Underwater Cultural Heritage <i>Applicable Readings</i> <ul style="list-style-type: none"> • Review Odyssey Marine Exploration website (http://www.shipwreck.net/aboutus.php) 	
MAR 20 OM 305	Session 18 EXAM 2: Resource Management, Conservation & Analysis	Exam 2
MAR 25 HAH 202	Session 19 Student Presentations	Select Presentations Due
MAR 27 OM 305	Session 20 Student Presentations	Select Presentations Due
APR 1 HAH 202	Session 21 Student Presentations	Select Presentations Due
APR 3 OM 305	Session 22 Student Presentations <i>Readings Due</i> <ul style="list-style-type: none"> • King Chapter 6 	Select Presentations Due
APR 8 HAH 202	Session 23 The Federal Sector Presentation by Dr. David Gadsby, Archaeologist, National Park Service <i>Readings Due</i> <ul style="list-style-type: none"> • Lecturer Biography & Institutional Program Overview 	3 Questions for Lecturer Due

APR 10 OM 305	<p>Session 24 The State Sector Presentation by Dr. Susan Langley, Maryland State Underwater Archaeologist</p> <p><i>Readings Due</i></p> <ul style="list-style-type: none"> Lecturer Biography & Institutional Program Overview 	3 Questions for Lecturer Due
APR 15 HAH 202	<p>Session 25 The Private Sector Presentation by Bradley Krueger, Maritime Archaeologist, U.R.S. Corporation</p> <p><i>Readings Due</i></p> <ul style="list-style-type: none"> OHMA 44 Lecturer Biography & Institutional Program Overview 	3 Questions for Lecturer Due
APR 17 OM 305	<p>Session 26 The Social Sector Presentation by Dr. Paul Johnston, Curator of Maritime History, National Museum of American History, Smithsonian Institution</p> <p><i>Readings Due</i></p> <ul style="list-style-type: none"> Lecturer Biography & Institutional Overview 	3 Questions for Lecturer Due
APR 22 HAH 202	<p>Session 27 The Academic Sector Presentation by Dr. Ben Ford, Assistant Professor, Anthropology Department, Indiana University of Pennsylvania</p> <p><i>Readings Due</i></p> <ul style="list-style-type: none"> Lecturer Biography & Institutional Overview 	3 Questions for Lecturer Due
APR 24 OM 305	<p>Session 28 Graduate Programs & Professional Opportunities</p> <p><i>Readings Due</i></p> <ul style="list-style-type: none"> OHMA Conclusion Review AIA website (http://www.archaeological.org/) Review SHA website (http://www.sha.org/) Review ACUA website (http://www.acuaonline.org/) Review RPA website (http://www.rpanet.org/) 	<p>Quiz 2: Guest Lecture Presentations</p> <p>Assignment 2: Brief on Graduate & Professional Opportunities Due</p>
APR 29		