



MEMORANDUM

To: Donna E. Shalala, President

From: Richard L. Williamson
Chair, Faculty Senate

A handwritten signature in blue ink, appearing to read 'Richard L. Williamson'.

Date: September 26, 2011

Subject: Faculty Senate Legislation #2011-12(B) – Establish a New track of Underwater Archeology in the Rosenstiel School for Marine and Atmospheric Science

At its September 21, 2011 meeting, the Faculty Senate unanimously approved the new track of Underwater Archeology in the Rosenstiel School for Marine and Atmospheric Science. The track would be offered by the Division of Marine Affairs within the existing Master of Professional Science degree.

The supporting materials are enclosed for your reference.

This legislation is now forwarded to you for your action.


RW/rh

Enclosure

cc: Thomas LeBlanc, Executive Vice President and Provost
Roni Avissar, Dean, Rosenstiel School for Marine and Atmospheric Science
John Gifford, Presenter, Rosenstiel School for Marine and Atmospheric Science

CAPSULE: Faculty Senate #2011-12(B) -- Establish a New track of Underwater Archeology in the Rosenstiel School for Marine and Atmospheric Science

PRESIDENT'S RESPONSE

APPROVED:  DATE: 10/3/2011
(President's Signature)

OFFICE OR INDIVIDUAL TO IMPLEMENT: DEAN AVISSAR

EFFECTIVE DATE OF LEGISLATION: IMMEDIATELY
(if other than June 1 next following)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

Underwater Archaeology

Management of The Underwater Cultural Heritage (MUCH)

Over half of the world's population resides in growing coastal areas. These areas are major economic engines, supporting port and shipping, tourism, fisheries, aquaculture, and oil and gas mining activities. The coastal zone — comprised of nearshore waters and lands — represents some of the most fragile habitats on the planet. Balancing economic activities with non-renewable submerged cultural resources is a major challenge that resource managers face in the 21st Century. Similarly, adaptation to climate change, sea level rise, coastal erosion, and hurricanes pose additional challenges for underwater cultural resource managers. There is also the threat to underwater cultural heritage posed by commercial salvors. The MPS Underwater Archaeology track, focusing on management of the underwater cultural heritage (MUCH), is primarily technical, and will introduce participants to the legal and governance frameworks in this increasingly important discipline. Coursework will integrate topics such as legal aspects of submerged cultural resource management, Marine Protected Areas, environmental impact assessment, and remote sensing surveys. While not a requirement, the opportunity to become an AAUS-certified Science Diver is also available. Students also will have opportunities to engage in internships with private, public or non-governmental agencies (NGO's) and conduct relevant fieldwork.

Sample Curriculum

Fall Semester	Spring Semester
Field School in Prehistoric Underwater Archaeology	History of Seafaring
Techniques of Marine Archaeological Survey	Intro to Marine Cultural Resource Management
Introduction to Marine GIS	Research Diving and Boat Handling

Other Electives:

Advanced Fieldwork in Coastal Cultures
 Advanced Underwater Acoustics
 Bayesian Statistics
 Coastal Law and Policy
 Coastal Zone Management
 International Ocean Law
 Environmental Planning and the Environmental Impact Statement
 Geological and Environmental Remote Sensing
 Scientific Communication

Marine Affairs 514 01
FIELD TECHNIQUES IN PREHISTORIC UNDERWATER
ARCHAEOLOGICAL EXCAVATION
Fall Semester 2010 and
Intersession (4 - 15 January 2011)

Course description: An introduction to specialized techniques of underwater research applicable to the ongoing (since 1983!) study of Little Salt Spring (LSS), owned by UM and operated by RSMAS.

Course Requirements: basic SCUBA certification and permission of instructor. This is a graduate level course that is also open to upper-level undergraduates. SCUBA certification is a prerequisite; only students who are active, certified divers will be accepted; see below for additional diving prerequisites.

A list of readings will be distributed via Blackboard during the first week of Fall Semester. Then all students will participate in a three-week intensive lecture course (at RSMAS) in the prehistory of Florida and general techniques of underwater excavation at the end of the Fall Semester (specifically, meetings on 16, 18, 23 and 30 November, and 2 December, from 5:00-6:15 PM at RSMAS). We then break until Intersession, reconvening at UM's Little Salt Spring Archaeological and Ecological Preserve in North Port, Florida, on Tuesday, 4 January 2011. During the next eleven days you'll live in a dorm-style, double-wide trailer on site (no bathrooms, only port-O-lets and cold water showers) and be responsible for buying and your own meals (primitive kitchen facilities are available). There are no fees or special charges associated with this field school.

The field portion of the course continues every day through Friday 14 January; students will be able to return to Miami the following day. This is justified because of the full-time nature of the field work (10 hours/day). *Students must be present for the entire Intersession field course in order to complete basic requirement, unless prior arrangements have been made with the instructor.* Activities will include daily underwater excavation in depths of 20-40 feet of water, as well as surface support activities relating to science diving and the recording and basic conservation of recovered ecofacts and artifacts dating before 9,000 radiocarbon years before present.

Students *need not* already be qualified as RSMAS scientific divers, under guidelines established by the American Academy of Underwater Sciences (AAUS) in order to participate in course-related SCUBA-diving activities. *HOWEVER, it's your responsibility to follow the detailed **LSS Diver Qualification Procedure** prepared by RSMAS Diving Safety Officer Rick Gomez (305 421 4107), well in advance of the beginning of Intersession in order to prepare for this fieldwork portion of the course. This is **particularly true of the diving physical that you MUST obtain before the END of the Fall Semester.***

Course grade is based on a combination of fieldwork evaluation plus completion of a 2000-word research paper describing some aspect of the field experience at LSS; this will be due before the end of Spring Semester 2011.

Instructor: John A. Gifford (Grosvenor S118, RSMAS, 421-4191). You only need to call ahead to make an appointment to see me. You can also send e-mail to jgifford@rsmas.miami.edu.

Recommended Text: Bowens, A., editor (2009). *Archaeology Underwater*. (This is also the new text for APY 340 "Introduction to Underwater Archaeology.") Both the RSMAS and Richter libraries have copies.

Marine Affairs 515 04
TECHNIQUES OF MARINE ARCHAEOLOGICAL SURVEY AND RECORDING
Fall Semester 2011
10:30-11:45 M-W, South Grosvenor 114/16 (RSMAS)

Course description: The location and study of underwater archaeological sites is undergoing fundamental changes thanks to the application of advanced technologies developed for other fields, notably remote sensing and commercial marine survey, as well as the general availability of powerful hardware and software for individual users. This course will introduce the student to the latest techniques of survey and recording, focusing on those that greatly increase the efficiency of any underwater archaeological project. A major case study that will be used is the excavation of Little Salt Spring, which is one of the most intensively computerized excavations (on land or under water) to date.

Instructor: John A. Gifford (S. Grosvenor 118, RSMAS, 361-4191). I'm at RSMAS almost all week; you only need to call ahead to make an appointment to see me. You can also send e-mail to jgifford@rsmas.miami.edu.

Required Text and other readings: *Maritime Archaeology: a Technical Handbook*, by Jeremy Green (Academic Press, 2nd. Ed 2004). As of spring 2011 the hardcover edition of this book (New!) is still available on Amazon for \$55-60. (Used ppb edition is \$330...)

Due to this, I am placing a copy on reserve in the RSMAS library. In addition to the *preparatory* readings in Green, I will distribute additional reading material as handouts on a regular basis. Green must be read in conjunction with the handouts, which will present updated methodologies and case studies from scholarly journals. The general format of the course will be a lecture on Wednesday introducing a major topic, after which you will receive a few (or more) papers that must be carefully read in preparation for discussion during the subsequent Monday class meeting. Ten percent of your final grade in this class will be based on my evaluation of your participation in the discussion sections.

RECOMMENDED Text: Bowens, A. (2008). *Archaeology Underwater* (2nd ed.). For those of you with no background in archaeology whatsoever, you might consider reading the required textbook for APY 340 (Intro to Marine Archaeology), available at the CG campus bookstore; it will explain all of the basic archaeological methodology and theory mentioned in this more specialized course.

Examinations: 50% of final course grade:

- one midterm exam, worth 20%;
- a *cumulative* final examination, worth 30% of final course grade.

Library Review Paper and Oral Report: 50% of course grade. A 4000-word **minimum** paper (about 16 pages typed, double-spaced) reviewing one well-defined aspect of marine archaeology using at least six published references from the scholarly journals of archaeology and related fields (e.g., *Journal of Field Archaeology*, *International Journal of Nautical Archaeology*, *Journal of Archaeological Science*, *Geoarchaeology*, *Quaternary Research*, to name just a few), as well as relevant books and monographs will be due at the last schedule class meeting. In

In addition to its topical content, your paper will be graded on such aspects of non-fiction technical writing as clarity of thought and presentation, structure, style, use of English, in-text citations, and references (among others). For your edification regarding what constitutes a good paper, I will show you copies of past papers that received high marks.

By Week 5 of the semester I will have handed out a list of possible topics, but you are encouraged to discover your own, based on interests that emerge during the semester. A formal outline and the initial section of your paper will be required in advance of its final submission, so I can monitor (to a small extent) your progress. Due dates are included in the course schedule; you are responsible for submitting these items on schedule or face the consequences of failure to do so.

The last two meetings of the semester will be devoted to oral presentations by each student of his/her review paper topic. I envision each of these presentations to last around 15 minutes, and they will count as (approximately) 1/3 of the final paper grade (i.e., 15-20% of overall course grade). More details regarding these presentations will follow.

Attendance and Grading Policies: Attendance is completely voluntary, but considering the tuition for a three-credit course at this University I assume graduate students will make every effort to do so. And while I do not formally consider class participation as a percentage of your final grade, like most other teachers of small classes, I tend to recall those students who have asked pertinent questions during the course; this is difficult to do in abstentia.

All provisions of the University of Miami Honor Code are in effect for this course.

MAF 515 04: Fall 2011 Schedule

Week	Dates	Topics
1	28 Aug	Course mechanics, brief introduction to underwater archaeology
2	2, 4 Sep	Project planning and research design
3	9, 11 Sep	Search & survey techniques I (general, visual)
4	16, 18 Sep	Search & survey techniques II (electromagnetic)
5	23, 25 Sep	Search & survey techniques III (acoustic)
6	30 Sep, 02 Oct	Pre-invasive survey of underwater sites
7	07, 09 Oct	Photography and videography
8	14 Oct	Excavation
	16Oct	Midterm Examination Library Research Paper (LRP) titles and outlines due!
9	21, 23 Oct	Recording techniques I (historical development)
10	28, 30 Oct	Recording techniques II (video records)
11	04, 06 Nov	Site analysis I (computerized project files)
12	11, 13 Nov	Site analysis II (application of GIS packages)
13	18, 20 Nov	Site analysis III (post-excavation data analysis) First section/introduction of your LRP due on or before 20Nov!
14	25 Nov	Archiving & publication of digital data [no class Thursday 27 November]
15	02, 04 Dec	Individual in-class reports Your finished LRP due on or before 04Dec!

MAF560 Fall 2010	
Instructor:	Maria Luisa Estevanez S Grosvenor Building 122B Tel: 305 284-2180 (TR) 305 421-4012 (MWF) Email: mestevanez@rsmas.miami.edu
Teaching Asst:	Roberto Koeneke Email: rkoeneke@rsmas.miami.edu
Class Schedule:	Mondays and Wednesdays 9:00 am – 10:15 am/10:30 am – 11:45 am
Office Hours:	Mondays and Wednesday 1:30 pm – 4 pm or by appointment
Class Objectives	Understand the concept of spatial data analysis. Apply GIS concepts and create simple GIS models for marine science/policy applications using ArcGIS 9.3.
Class Materials:	All class materials are available from UM Blackboard (courses.miami.edu)
Textbook:	Introduction to Geographic Information Systems 5 th edition by Kang Tsung Chang
Grading:	Lab exercises and attendance: 25% Homework : 15% Weekly Quizzes : 30% Individual Project : 30%
Weekly Quizzes:	There will be a 20 minute quiz every Monday. The quiz will cover the class materials from the previous week.
Group Project:	There will be an individual class project. You will choose your own project. You will be required to present your project and write a paper. The guidelines for the presentation and paper will be available at the Blackboard. A sample presentation and paper will available for your reference. The project will be completed during class hours (see schedule below). The project will be presented during the last 2 weeks of classes. The project paper is due at the last day of class.
Submission of Class Materials	All exercises, homework, project presentation and project paper for the class will be saved as digital copies and submitted electronically as attachment to email. File Naming: For lab exercise: yourlastnameEx#.jpg (and/or .doc) For homework: yourlastnameHW#.jpg(and/or .doc) For presentation:yourname_projecttitle.ppt For paper: yourname_papertitle.doc (or .pdf) Your work will not be accepted if this file naming procedure is not followed. Mail all work to rkoeneke@rsmas.miami.edu (class TA)

Week	Topic	Class Materials in	Reading assignment	Lab Exercise	Homework
Week 1 (August 25)	Class Syllabus Class Policy Reading 1				
Week 2	What is GIS Map Projection	Week2.zip	Chang – Ch.1, 2 Hand-out	Gulf of Mexico Oil Spill World Map Projection	Create a Map Layout using Gulf Oil Spill Data Create World Map Projections
Week 3	Vector Data Model- Spatial and Attribute	Week3.zip	Chang- Ch. 3, 8, 10	Data Display and Attribute Table manipulation Data Statistics	Mapping Atlantic Hurricanes 2009 Mapping SE Florida Coral Reef and Critical Habitat
Week 4	Vector Data Analysis Geocoding	Week4.zip	Chang- Ch. 10, 1617	Data Manipulation (Pre- processing of data) Map Overlay and Buffering	Tongass National Park
Week 5	Continue Vector Data Analysis (Using Model Builder)	Week5.zip	Chang- Ch. 4, 12	Simple GIS data models Create a Flow Chart	Biscayne National Park
Week 6	Continue Vector Data Analysis	Week6.zip	Chang- Ca. 13	Creating A Decision Support Model- Ecosystem Based Management	Marine Protected Areas EBM Modeling
Week 7	Raster Data Model	Week 7.zip		Terrain Mapping	TBA
Week 8	Continue Raster Data Model	Week 8.zip		Using a simple Marxan Model	TBA
Week 9- 14	Projects to do in Class Projects Presentation Paper Due				

MAF 500
A History of Seafaring Based on Underwater Archaeology
Spring Semester 2012
Tu-Th

Course Description:

Ships and seafarers have had considerable influences on civilization throughout history. The ship typically represents the pinnacle of a society's understanding of many disciplines: astronomy, geography, metallurgy, physics, warfare, et cetera. No other process similarly spread the delights and devastation of the world so effectively. This course will study man's evolutionary relationship with the sea from early civilization through the 20th century. Emphasis will be on archaeological and ethnographical investigations concerning shipwrecks and maritime epicenters supporting maritime culture. This will be a lecture course supported by visual, audible, and hands-on presentations. The final lectures make ample use of online resources. A voluntary and *complimentary* field trip at sea to Miami's underwater archaeological preserve, *Half Moon/Germania*, will be offered toward the end of the class.

Instructor:

Michael J. Beach
Mobile: 305.458.4211
No current on campus office.
E-mail: mike@rjdiving.com

Required Text:

Bass, G. 1972. *A History of Seafaring: Based on Underwater Archaeology*. New York.

While there are many books in current press on the topic of seafaring, no book carries the flavor and chronological flow of this classic original endeavor by George Bass. This text is widely available online for very reasonable costs (\$2.98 and up). If any difficulty arises in acquiring copies, I will make copies of the text available or post chapters in .pdf format on the Blackboard website.

Gould, R.A. 2000. *Archaeology and the Social History of Ships*. Cambridge University Press.

Highly Recommended Text:

Villiers, A. 1962. *Men, Ships, and the Sea*. National Geographic Society.

Grading

The grading will be an average of 3 traditional essay/short answer/multiple choice exams (70%), one final presentation (20%), and participation (10%).

Examinations

The course will have 3 exams:
 2 Mid term exams (20% each)
 Cumulative final exam (30%)

Participation

In class participation and discussion will be considered for 10% of the grade.

Presentation

There will be a 20-minute presentation due at the end of the class (20%). All presentation formats will be welcome and seaman-like creativity encouraged. The topic will be approved in discussion with me after spring recess and should involve at least one aspect of man's relationship with the sea. Adequate research should be evident in the presentation. A list of suggested topics will be provided.

Week	Dates	Lecture topics
1	01 Sept	Course mechanics and overview
2	06	Basic terms, definitions, archaeological concepts. Special considerations with underwater and maritime environments. General introduction to the impacts of maritime events on civilized world development. Why <i>maritime</i> archaeology instead of nautical, naval, underwater, or hydro archaeology? What is maritime ethnography? <i>Gould: pp. 1-6</i>
2	08	Interpreting the underwater archaeological record, basic mechanics of underwater archaeology Techniques, methods, expectations <i>Gould: pp. 7-20; 65-92</i>
3	13	Early ships and seafaring people in the Mediterranean and more A brief note on Chinese Junks and Arab seafaring <i>Bass: pp. 12-35 Ch. 1</i> <i>Gould: pp. 121-122 Ch. 5</i> <i>Villiers: pp. 13-19, 43-59</i>
	15	Greek, Etruscan, Phoenician, and Egyptian shipping <i>Bass: pp. 38-63 Ch. 2</i> <i>Gould: pp. 122-130 Ch. 5</i>
4	20	Roman ships of pleasure, trade, and war <i>Bass: pp. 66-86 Ch. 3</i> <i>Gould: pp. 143-149, Roman merchant vessels, Lake Nemi Ships</i>
	22	Greek and Roman harbours <i>Bass: pp. 87-111 Ch. 4</i> <i>Gould: pp. 150-152 Ch. 6; pp. 299-304 Ch. 11</i> <i>Recommended text: Anderson, 1992. The Rise and Decline of Port Economies.</i>
5	27	Ships of the Roman period and after in Britain <i>Bass: pp. 113-131 Ch. 5</i>
	29	The Byzantine Empire and Medieval ships <i>Bass: pp. 133-157 Ch. 6</i> <i>Gould: pp. 170-173 Yassi Ada</i> <i>Villiers: pp. 30-33</i>
6	04 Oct	Scandinavian ships from early times to the Vikings, Review <i>Bass: pp. 159-179 Ch. 7</i>
	06	EXAM I

7	11	Vikings and the Hanseatic Merchants <i>Bass: pp. 181-203 Ch. 8</i> <i>Gould: pp. 174-187</i> <i>Villiers: pp. 60-68</i>
	13	Maritime Republics: Medieval ships in Italy <i>Bass: pp. 205-224 Ch. 9</i>
8	18	The Great Age of Asian Seafaring <i>Gould: pp. 191-199</i> <i>National Geographic July 2005: The Voyages of Zheng He; China's Great Armada</i> http://www7.nationalgeographic.com/ngm/0507/feature2/map.html 1421, Gavin Menses. http://www.1421.tv/ A look into archaeological circumstances perpetuated and interpreted in projected media
	20	Transitions to post Medieval ships I <i>Bass: pp. 225-251 pp. Ch 10</i> <i>Gould: pp. 187-191</i>
9	25	Transitions to post Medieval ships II: British Naval influence <i>Bass: pp. 225-251 pp. Ch 10</i> <i>Gould: pp. 187-191</i>
	27	The Great Age of Sail I <i>Gould: pp. 202-220 The Mary Rose</i>
10	01 Nov	The Great Age of Sail II: The Spanish Armada and the British Navy <i>Gould: pp. 220-225</i> <i>The Spanish Armada 1588</i>
	03	The Great Age of Sail III: Colonial Expansion Prince Henry the Navigator, Columbus (Bartolomé Colón), the Spanish Main <i>Gould pp. 235-237</i> <i>Villiers: pp. 76-106</i>
11	8	The Great Age of Sail IV: Atlantic Trade, East India Companies, Whaling <i>Bass: pp. 253-279 Ch. 11</i> <i>Gould: pp. 229-235</i> <i>Villiers: pp. 138-142</i> Recommended reading: Philbrick, N. 2000. <i>In The Heart of the Sea: The Tragedy of the Whaleship Essex.</i> Melville, H. <i>Moby Dick</i>
	10	EXAM II

12	15	<p>The transition from sail to steam: Ironclads and naval innovation <i>Bass: 290-292</i> <i>Gould: 238-249 Ch. 9; 268-290</i> <i>Villiers: pp.254-269</i></p>
	17	<p>The Art of Navigation (celestial, coastal, chronometers, compasses, GPS) Celestial instruments in archaeology. Beach, MJ. 2002. A Modern Experiment in 16th Century Navigation at sea From the Kamal to the GPS. Astrolabe, cross staff, sextant, declination tables. http://www.abc.net.au/navigators/navigation/history.htm Captain James Cook John Harrison</p>
13	22	<p>Piracy, Wreckers, Blockade runners, and other legends of the sea <i>Gould: pp. 254-264</i> Zepke, T. 2000. <i>Pirates of the Carolinas</i>. pp. 15-32 Blackbeard handout <i>The Wydah, Queen Anne's Revenge</i> Sir Francis Drake Handout http://www.solarnavigator.net/history/francis_drake.htm Extra recommended reading: Defoe, W. 1999. <i>A General History of the Pyrates</i>. Burnett, John S. 2002. <i>Dangerous Waters: Modern Piracy and Terror on the High Seas</i>. Kelsey, H. 1998. <i>Sir Francis Drake: The Queen's Pirate (Yale nota bene)</i>. Stevenson, R. L. 1883. <i>Treasure Island</i></p>
	24	Thanksgiving Holiday
14	29	<p>Archaeological Preserves, Review http://www.flheritage.com/archaeology/underwater/preserves/ http://www.flheritage.com/archaeology/underwater/maritime/ http://www.flheritage.com/archaeology/underwater/galleontrail/</p> <p>Recommended Reading: Spirek, J. and Della Scott-Ireton. 2003. <i>Submerged Cultural Resource Management: Preserving and Interpreting Our Sunken Maritime Heritage</i>.</p>
	01 Dec	Presentations
15	06	Presentations
	08	Presentations, Review
FINAL	13	Time and location TBA

MARINE AFFAIRS 526 ST
Marine Cultural Resource Management (MCRM)
Spring Semester 2011
16:30-17:45 Tu-Th, S. Gros 114-16

Course description: Historic and prehistoric archaeological sites, including both shipwrecks and inundated land sites, are known to exist on most of the world ocean's continental shelves. Their investigation is the objective of the subfield of archaeology called marine or nautical archaeology. Marine archaeology is related to marine affairs through the question of how these non-renewable cultural resources, analogous in many respects to non-renewable natural resources, are to be optimally managed in the face of increasing human use of the seabed. In this course, a brief introduction to techniques of marine survey and excavation of underwater archaeological sites will provide the basis for their consideration as *exhaustible* resources. Policies and procedures for their protection or mitigation will be studied, using as examples the statutes and regulations of foreign states, the federal government, and US states. Particular attention will be directed to management of marine cultural resources in the Gulf of Mexico/Caribbean region, and to the 1999 US Supreme Court case (*California v. Brother Jonathan*) testing the constitutional validity of the Abandoned Shipwreck Act of 1987.

There is no required text for this course, because one does not exist. We will work with primary documents such as regional environmental impact statements, case law, state regulations and contractual documents, and articles published in scholarly journals. The class format will be a mixture of lectures by me and seminar presentations by you.

Instructor: John Gifford (Grosvenor S118, RSMAS, 421-4191). My office hours are open—just telephone (or e-mail me) first to make sure I'm available. During this semester I'll also be teaching the Intro to Underwater Archaeology course on the main campus from mid-morning to mid-afternoon on Tu-Th, but otherwise should be here at RSMAS.

RECOMMENDED Texts: C. Renfrew and P. Bahn (5th ed., 2009, or any of the previous ones you might come across), *Archaeology*. For those with no background in archaeology whatsoever, you might consider reading (or skimming) this required textbook for APY 201 (Principles of Archaeology); it will explain all of the basic archaeological methodology and theory mentioned in this course. For those with some knowledge of archaeology but no familiarity with underwater archaeology, I recommend the textbook for APY 340: Bowens, A. (ed.) *Underwater Archaeology: the NAS Guide to Principles and Practices* (2nd ed. 2009), which is available in the RSMAS Library.

Course Grading: will be based on three measurements,

- an *in-class oral presentation* scheduled on an individual basis at the end of the semester, about 20 minutes in length (25%);
- a 3000-word (MINIMUM) *library research paper* (see following); it may, but need not, be related to your oral presentation (50%);
- a *cumulative* final exam based on a case study (25% of final course grade).

Library Research Paper: 50% of course grade. A 3000-word minimum paper (about 14 pages, typed double-spaced) reviewing one well-defined aspect of MCRM using at least six published references from the scholarly journals of archaeology (e.g., *Journal of Field Archaeology*, *American Antiquity*, *Current Anthropology*, *International Journal of Nautical Archaeology*), as well as relevant books and monographs. In addition to its topical content, your paper will be graded on such aspects of non-fiction technical writing as clarity of thought and presentation, structure, style, use of English, in-text citations, and references (among others). For your edification regarding what constitutes a good paper, I can show you copies of past papers that received high marks.

By Week 5 of the semester I will have handed out a list of possible topics, but you are encouraged to discover your own, based on interests that emerge during the semester. A formal outline and the initial section of your paper will be required in advance of its final submission, so I can monitor (to a small extent) your progress. Due dates are included in the course schedule below; you are responsible for submitting these items on schedule.

MAF 526 ST: Spring 2011 Schedule

Week	Dates	Lecture topic
1	18 Jan 20 Jan	Course introduction and mechanics Archaeology of Shipwrecks
2	25 Jan 27 Jan	History of Cultural Resource Management (CRM) in the USA Current CRM in the USA and FL
3	01 Feb 03 Feb	Management of prehistoric sites on the Outer Continental Shelf Submerged CRM in the Gulf of Mexico
4	08 Feb 10 Feb	Legal aspects of shipwrecks in US waters Development of Marine CRM in Florida
5	15 Feb 17 Feb	Review of Current Florida MCRM Situation Shipwrecks & the National Register of Historic Places
6	22 Feb 24 Feb	Legislative History of Abandoned Shipwreck Act of 1987 (ASA'87) Constitutionality of the ASA'87 (<i>Brother Jonathan</i>)
7	01 Mar 03 Mar	MCRM in the National Marine Sanctuaries MCRM in the FKNMS
8	08 Mar 10 Mar	SCRM in the National Park Service [no class...]
SPRING BREAK 12 – 20 MARCH		
9	22 Mar 24 Mar	MCRM in Biscayne National Park The U.S. Army Corps of Engineers and MCRM
10	29 Mar 31 Mar	Sport divers and MCRM Caribbean Basin MCRM <i>Outline/synopsis of your library research papers due!</i>
11.	05 Apr 07 Apr	the Business of Treasure Hunting (I) Treasure Hunting (II): the S.S. <i>Central America</i> case
12	12 Apr 14 Apr	Ethics of scientific research in commercial treasure salvage projects Intro to the UNESCO CPUCH <i>First section/introduction of your library research papers due!</i>
13	19 Apr 21 Apr	Analysis of the UNESCO CPUCH Oral presentations
14	26 Apr 28 Apr	Oral presentations Oral presentations <i>Library research papers due!</i>
<u>FINAL EXAMINATION: T.B.A. (likely a take-home)*</u>		

UNIVERSITY
OF MIAMI



STEPHEN K. URICE, PH.D., J.D.
ASSOCIATE PROFESSOR OF LAW
UNIVERSITY OF MIAMI SCHOOL OF LAW
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August 22 2011

BY HAND AND EMAIL
Richard L. Williamson
Chair of the Faculty Senate
and Professor of Law
University of Miami School of Law

Dear Rick,

I met recently with Professor Gifford to discuss the proposed new masters degree program in underwater archaeology at the Rosenstiel School of Marine & Atmospheric Science. I can see at least two ways that the proposed program would fit with my teaching and research at the Law School.

First, I would enjoy having my cultural property law class cross-listed with RSMAS and having students in the proposed program enrolled in that class. Since AY 2010-2011, my Art & Law class (Law 392A) has been offered in the Art Department as ARH 411A; last year I had five art historians in class, and this year there are four. Additionally, I could foresee focusing one or more of my spring semester seminars on topics directly related to the proposed program. For example, I could offer a seminar on the UNESCO Convention on the Protection of the Underwater Cultural Heritage, modeled on my seminar two years ago on the UNESCO 1970 cultural property convention. Alternatively, in the United States over the past decade there have been several interesting cases involving cultural property retrieved from shipwrecks. For some time I have wanted to focus a seminar on those and related cases. In short, there would be a good fit between the proposed program and my teaching and research. Accordingly, I support approval of the program.

Please let me know if further information would be helpful.

Sincerely,

cc: Professor John Gifford (via email only)
Professor Bernard H. Oxman (via email only)

From: Oxman, Bernard H. [bhoxman@law.miami.edu]
Sent: Tuesday, August 23, 2011 2:31 PM
To: Faculty Senate Office
Cc: Williamson, Richard L.; John Gifford
Subject: Underwater Archeology Proposal

Dear Professor Williamson,
I reviewed the materials describing the underwater archeology proposal and met with Professor Gifford today to discuss them. I made a few suggestions to Prof. Gifford regarding substantive matters and engagement of members of the law faculty as potential guest lecturers on particular issues related to marine archeology and cultural resource management, but these are for his consideration and are not conditions for my concurrence. The proposal is a fine idea that draws on the strengths of the University of Miami, and I recommend its approval.

Sincerely yours,
Bernard Oxman

Bernard H. Oxman

Richard A. Hausler Professor of Law
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From: Page, John B.
Sent: Tuesday, September 13, 2011 11:05 AM
To: Faculty Senate Office
Cc: 'jgifford@rsmas.miami.edu'
Subject: The proposed graduate program on Management of the Underwater Cultural Heritage

Dear Faculty Senate:

I enthusiastically support the establishment of a graduate degree program in underwater archaeology as part of the RSMAS Masters of Professional Science program. Dr. John A. Gifford has unique qualifications to administer and teach the proposed program, which will have the title: "Management of the Underwater Cultural Heritage." Dr. Gifford's long experience in conducting archaeological research in a wide variety of underwater sites makes him an especially apt choice to run the proposed program. This program represents a first opportunity to establish graduate studies in anthropology, and we of the Department of anthropology look forward to its success and growth.

J. Bryan Page
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University of Miami
103H Merrick, LC 2005
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FAX (305)284-2110

MEMORANDUM

DATE: March 31, 2011

TO: Richard Williamson
Chair, Faculty Senate

FROM: Terri A. Scandura *Terri A. Scandura*
Dean, The Graduate School

SUBJECT: New Tracks for MPS Degree in Marine Affairs and Policy

The Rosenstiel School of Marine and Atmospheric Science (RSMAS) has submitted a request to add two new tracks for the MPS degree in Marine Affairs and Policy. The two new tracks are Marine Conservation and Underwater Archeology. The addition of the new tracks was discussed at the meeting of the Graduate Council on Thursday, March 24, 2011, and none of the Graduate Council members expressed any concerns.

cc: Roni Avissar
Brian Soden
Office of Planning, Institutional Research and Assessment