Advanced Research Topics
CAS NS 433 (4 credits)

Course Catalog Description
Advanced humanities and social science seminar focusing on contemporary climate-related issues including urban/coastal resilience, poverty and justice, clean energy, human displacement, and national security. Emphasizes case study analysis and research methods. Requires field data collection, research paper and symposium presentation.

Instructors: Sea Education Association Maritime Studies Faculty; Visiting Scholars.

Location: SEA campus in Woods Hole, MA, on shore at field sites and port stops, and aboard SEA sailing school vessel at sea.

Prerequisites: Admission to SEA Semester. Junior standing or consent of instructor.

Course Philosophy and Approach:
In this course students will examine case studies involving contemporary climate issues in maritime contexts, identifying key concepts and methods as they develop their own research projects. The course objectives are to explore the broad range of sociocultural, economic, and political effects of climate change; to interact with fellow climate change scholars; and to develop the skills needed to conduct research effectively. Potential case studies and research projects include urban and coastal resilience, poverty and social justice, clean energy, human displacement, public health, national security, and conflict. The course places heavy emphasis on developing novel approaches to climate issues, formulating ocean-based perspectives with respect to these issues, and building cooperative strategies with fellow scholars across humanities and social science disciplines and in the natural sciences.

At our campus in Woods Hole students will find a class schedule that is familiar to them from their home campuses. Days are divided into lectures, discussions, and workshops. Aboard the ship there are two formats for class: a daily meeting at 1400 with all hands, and an in-watch class with the morning watch. (The watch rotation will bring each student to this class every third day.) On shore at field sites remote from Woods Hole and at port stops during the sea component there will be organized tours, workshops and lectures, and time to explore and follow up on research opportunities. The faculty and local experts will help students develop a plan to take best advantage of time in the field and in port. The course consists of 24 hours of faculty-supervised field trips, 24 hours of seminars, 24 hours of field data collection, 12 hours of case study workshops, 8 hours of research writing workshops, 4 hours of faculty-guided final project development, and 4 hours of presentations.

Learning Objectives:
1. Gain practical experience with specific approaches, tools, and techniques used in conducting humanities and social science research.
2. Learn research methods with multiple sources including primary documents, secondary scholarly literature, and the internet, where assessing the value and veracity of web pages is an essential skill for the scholar.
3. Learn to communicate with scholars, institutions, and stakeholders working to develop solutions to climate change-related issues locally, regionally, and globally.

**Evaluation:**

- Preliminary Research Statement and Bibliography: 10%
- First Draft of Research Paper: 20%
- Case Study Summaries (two on shore, two at sea): 40%
- Final Research Paper (At Sea): 20%
- Symposium Poster (At Sea): 10%

**Assignments:**

**Preliminary Research Statement and Bibliography**  
Individual students will select a research topic with the guidance of the course instructor. They will test the theories and ideas learned from an extensive review of relevant literature against their own observations and interviews conducted during the sea component. The preliminary research statement consists of two to three sentences that explain the goals of the proposed research; the goals must be sufficiently narrow in scope to be addressed in a ten-page paper. The bibliography consists of five annotated entries and serves as an exploratory exercise to further the student’s knowledge of the relevant literature. The preliminary research statement and bibliography are due in week three and are worth 10% of the total course grade.

**First Draft of Research Paper**  
Students in Advanced Research Topics have the option of identifying an ongoing or potential project from their home institutions, such as independent study work or a campus climate initiative, and writing a communication piece, such a journal article, policy brief or white paper directed to interested readers and stakeholders. The first draft of the research paper will consist of a topic-specific literature review, a field plan for data collection during the second shore and sea components, and a summary of any data collected during the first shore component. The research draft (7-8 pages) is due at the end of week six and is worth 20% of the total course grade.

**Case Study Summaries**  
During the semester there will be four case studies based on field trips. A case study identifies a specific problem related to the broader themes of the program and provides opportunities for
field (onsite) analyses of stakeholders, policies, and other relevant factors. Students will work in
teams to complete a case study summary worksheet provided by the instructor and will discuss
results in class. Each of the four case study summaries is worth 10% of the total course grade.

Final Research Paper and Symposium Poster
Students in Advanced Research Topics will produce a conference-quality poster to accompany
their final research paper and will present the poster during an end-of semester symposium on
the ship. The poster will summarize the research question, current theories and students’
original data collection and arguments. The final manuscript will be ten to twelve pages of text,
excluding additional figures and images. The final paper and poster are due in week 12 and are
worth 20% and 10% of the total course grade, respectively.

Expectations and Requirements:

• Punctual attendance is required at every class meeting.
• Active participation in class discussion is expected.
• Late assignment submissions are not accepted.
• The policy on academic accuracy, quoted below, will be strictly followed in this class.
  The papers that you submit in this course are expected to be your original work.
  You must take care to distinguish your own ideas and knowledge from wording or
  substantive information that you derive from one of your sources. The term
  “sources” includes not only published primary and secondary material, but also
  information and opinions gained directly from other people and text that you cut
  and paste from any site on the Internet.

  The responsibility for learning the proper forms of citation lies with you.
  Quotations must be placed properly within quotation marks and must be cited fully.
  In addition, all paraphrased material must be acknowledged completely. Whenever
  ideas or facts are derived from your reading and research, the sources must be
  indicated. (Harvard Handbook for Students, 305)

• Considerations for use of internet sources: As you browse websites, assess their
  usefulness very critically. Who posted the information and why? Can you trust them to
  be correct? Authoritative? Unbiased? Your annotation should include the name of the
  author or organization originating any material that you reference. If you can’t identify
  the source, don’t use it!
• Please consult information in the SEA Student Handbook on Academic Integrity and
direct any questions to SEA Semester faculty.

Readings:


**Course Calendar:**

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<th>Topic</th>
<th>Readings/Assignments Due</th>
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<td><strong>Week 1 (6 hours) – on shore at SEA campus in Woods Hole</strong></td>
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| **First Shore Component** | **Readings:** Walliman 2011 (Ch. 3, “Structuring the research project” and Ch. 5, “Finding and reviewing the literature”)
| **Seminar:** Introduction to the themes, readings, and expectations for the course. | |
| **Workshop:** How to design a research project | |
| **Week 2 (8 hours) – on shore at SEA campus in Woods Hole** | **Readings:** Archer 2016; Moriarty & Honnery 2015; Kabisch et al 2016
| **Seminar:** Urban climate resilience | |
| **Field Trip:** The Port of Boston; BU Pardee Center (Case Study 1) | |
| **Week 3 (6 hours) – on shore at SEA campus in Woods Hole** | **Readings:** Buhaug 2015; Selby 2014; CNA 2014
| **Seminar:** Conflict | **Due:** Research statement and bibliography; Case Study 1 Summary
| **Seminar:** National security | |
| **Week 4 (6 hours) – on shore at SEA campus in Woods Hole** | **Readings:** MassSenate 2018; Scott 2016
| **Seminar:** Energy | |
| **Field Trip:** MA Clean Energy Center (Case Study 2) | |
| **Week 5 (6 hours) – on shore at SEA campus in Woods Hole** | **Readings:** Black et al 2011; Scandrett 2016; Schlosberg & Collins 2014; Hallegatte et al 2016
| **Seminar:** Climate migration | **Due:** Case Study 2 Summary
| **Seminar:** Climate and poverty | |
### Week 6 (8 hours) – on shore at SEA campus in Woods Hole

**Seminar:** Field case studies preview

**Project Writing workshop**

**Readings:** Site-specific readings to guide second shore component case study

**Due:** Research Paper First Draft

### Week 7 (16 hours) – on shore in New Zealand

**Second Shore Component**

*Three Field Trips/Seminars with local program partners*

**Field Data Collection for research papers**

**Case Study 3**

**Readings:** Site-specific readings to supplement field trip activities

**Due:** Case Study 3 Summary

### Week 8 (8 hours) – at sea

**Sea Component**

**Field Trip**

**Field Data Collection for research papers**

### Week 9 (8 hours) – at sea

**Research Writing Workshop**

**Topic Discussion:** The Paris Agreement

**Readings:** Paris Agreement 2015; Kinley 2017

### Week 10 (8 hours) – at sea

**Research Writing Workshop**

**Seminar:** Writing a Research Paper from Field Data

### Week 11 (8 hours) – at sea

**Field Trip**

**Field Data Collection for research papers**

**Due:** Case Study 4 Summary
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<td><strong>Field Trip</strong></td>
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<td><strong>Field Data Collection for research papers</strong></td>
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<td><strong>Symposium poster development</strong></td>
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<td><strong>Research Symposium</strong></td>
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<td><strong>Due:</strong> Final Research Paper and Symposium Poster</td>
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