2016 Study Abroad Antarctica: Humans and the Environment
VT: BIOL 3954    SUNY: OAP 404    OSU: ENR 5790.01 and 5797.10
OSU-Specific Syllabus

Study Abroad Antarctica includes a fall online course and a winter break, two week field excursion to Antarctica via Ushuaia, Argentina. The course is a collaboration among The College at Brockport, State University of New York (SUNY), Virginia Tech, and The Ohio State University, as well as American Universities International Programs (AUIP), University of Canterbury, New Zealand, and Gateway Antarctica: Centre for Antarctic Studies and Research. Fall course lectures are webcast in real-time Wednesdays from 6-730pm Eastern Standard Time from August 31 - December 7, 2016.

The field course begins with a group overnight flight from Miami, FL on December 16 and culminates with an overnight flight landing in Miami early morning on December 31. Group flight and booking instructions are at https://secure.statravel.com/paymentform.htm/#/form/AUIP/1464804439324/46.

Instructor
Jamie Spiller, Ph.D.
History/Graduate School
SUNY Brockport
Tel: 585-369-1893 (cell)
jspiller@brockport.edu

Instructor for OSU
Larry Krissek, Ph.D.
School of Earth Sciences
The Ohio State University
Tel: 614-292-1924
krissek.1@osu.edu

Advisor for VT
Lori Blanc, Ph.D.
Dept. of Biological Sciences
Virginia Tech
Tel: 540-231-5256
lblanc@vt.edu

Course description
Antarctica is a wondrous place- the “coldest, windiest, driest, highest, quietest, most remote, and least understood continent on earth.” It has been an object of human speculation for millennia and a prize for explorers, sealers and whalers, scientists, and geostrategists for more than two hundred years. The course examines this unique corner of the world and provides a broad overview of its human and natural history. Special attention is given to Antarctica’s physical and ecological systems as well as human activity in the region, sustainable tourism, and use of south polar resources. Students “attend” weekly online lectures, write 3 short essays, complete a midterm project and final essay exam, and submit an annotated bibliography of their field course readings.

During the two-week Antarctic excursion via Ushuaia, Argentina, students work on one-of-two group field studies (with ship-board presentation and post-trip group paper submission), and submit journal entries (during the trip) and a post-trip synthesis essay and a media outreach assignment.

Course objectives- Students will:
1. Develop, through lectures and assigned readings, an interdisciplinary understanding of the biophysical and human dimensions of life in Antarctica, as well as its history and potential future.
2. Develop specialized knowledge, through independent study, of the issues in a specific, chosen area of Antarctic inquiry (e.g., history of science/exploration, environmental ethics, geology and global climate change, marine bird or southern forest conservation, etc.).
3. Develop, through field study, critical appreciation of issues in exploration, exploitation, conservation, and sustainable tourism in the Antarctic region.
4. Enhance intellectual maturity and confidence through teamwork, cross-cultural engagement, and self-reflection.

**Fall Online Lecture Attendance:** Viewing all online lectures (live or archived) and active participation in online discussions is required. It is **expected** that students view the online lectures “live” (unless they receive prior approval from course instructor to watch taped version) so that they can write in questions for the presenters and stay on top of coursework.

***OSU students will meet at the Byrd Polar & Climate Research Center’s Learning Center (Room 177 Scott Hall, 1090 Carmack Road, on West Campus) to view the online lectures on Wednesday evenings.***

**Field Course Attendance:** Punctual attendance and active engagement is required for all scheduled, program–related activities (e.g. group meetings, field excursions, lectures and student presentations) unless student receives course instructor approval- students will lose 10% of their final grade for chronic lateness or for each day or part–day they fail to participate. Participation in voluntary field activities is at the discretion of the student (with consultation of course instructors). **Please note,** students must not leave the group without consent of faculty leaders.

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**Academic honesty**

Students are expected to conduct themselves in a professional manner and produce honest and ethical academic work. Academic dishonesty will not be tolerated. This includes giving false reasons for missing assignment deadlines, tolerating academic dishonesty of others, and plagiarism— copying and/or representing another person’s words or ideas as one's own. All academic work must meet the standards for academic honesty for your university: College at Brockport [http://www.brockport.edu/policies/docs/policy_on_student_academic_dishonesty.pdf](http://www.brockport.edu/policies/docs/policy_on_student_academic_dishonesty.pdf); Virginia Tech [www.honorsystem.vt.edu/](http://www.honorsystem.vt.edu/); Ohio State University [http://studentaffairs.osu.edu/csc/](http://studentaffairs.osu.edu/csc/)

**Special accommodations**

**On-line course:** Appropriate accommodations for special needs learners will be made by Dr. Spiller and/or Dr. Krissek (if OSU student) if students forward to them official approval by their institution’s Services for Students with Disabilities (SSD). Students who believe they are eligible for accommodations but who have not yet obtained approval through SSD should contact SSD at their respective university:

**Virginia Tech** 540-231-0858 [http://www.ssd.vt.edu/accommodationdescriptions.htm](http://www.ssd.vt.edu/accommodationdescriptions.htm)

**SUNY Brockport** 585-395-5409 [http://www.brockport.edu/policies/docs/procedures_for_accessing_services_.pdf](http://www.brockport.edu/policies/docs/procedures_for_accessing_services_.pdf)

**OSU** 541-737-4098 [http://www.ods.ohio-state.edu](http://www.ods.ohio-state.edu)

**Field Component:** Students who need special learning or physical accommodations must provide formal SSD approval to Dr. Spiller and/or Dr. Krissek (if OSU student) at least 8 weeks before the beginning of the field program. After that time, we cannot guarantee accommodation. Some voluntary activities involve moderate exercise.
Course Management Software
All students participating in the course will use Blackboard, The College at Brockport’s course management software.

Course Assignments (Part A: OSU online course - 1 credit; Part B: OSU field course – 3 credits)

Part A: Online Course (Fall semester)

1. Midterm assignment (30%) and final essay exam (30%)
The midterm assignment and final essay exam are currently posted in the Blackboard course page
   • **Midterm assignment** submitted via the Blackboard midterm assignment dropbox using filename “student lastname midterm assignment” is due **November 6**.
   • **Final essay exam** submitted via the Blackboard final essay exam dropbox using filename “student lastname final essay exam” is due **December 4**.
Grades will be penalized for incorrect filenames and for late submission (10% loss/day late).

2. Three short essays (30% total; 10% each essay): Each ~300 word essay, currently posted in Blackboard, draws on course lectures and readings as well as potential student research (essays < 250 words or > 350 words will be returned for author revision).
   • **Essay #1** submitted via the Blackboard Essay #1 dropbox using filename “student lastname essay #1” is due **September 25**.
   • **Essay #2** submitted via the Blackboard Essay #2 dropbox using filename “student lastname essay #2” is due **October 2**.
   • **Essay #3** submitted via the Blackboard Essay #3 dropbox using filename “student lastname essay #3” is due **October 30**.
Grades will be penalized for incorrect filenames and for late submission (10% loss/day late).

Format of Essays: Essays should be structured into four main parts.

*Introduction:* Outline background to the question and set out your framework for discussion (~ 50 words).

*Discussion:* Address 2-3 key issues from readings you think are the most important. The discussion should thoughtful, well-written, and persuasive, supported by evidence from the literature. Be sure to clearly separate main discussion points (~ 200 words).

*Conclusion:* Sum up discussion and provide clear set of concluding points (~ 50 words).

*References:* These are not included in your word limit. You should use class readings and lectures, and cite these in the body of the essay and reference list, using the American Psychological Association citation guidelines mentioned below. You should also use at least one additional reference from the peer-reviewed literature, which you have found yourself. Please cite this/these and add to references at the end of the essay.

APA citation guideline example (author. (date). article title. journal title, volume #: pages.):
3. **Field course bibliography (10%)**: In advance preparation for the Antarctic excursion, each student identifies a preferred field module as part of the Midterm Assignment. After formal assignment by course instructors, each student completes the electronically reserved readings for that module (posted on Blackboard) and submits an annotated bibliography (one paragraph description of the topic, arguments, and evidence of each source) via the Blackboard field bibliography dropbox using filename “student lastname field bibliography” by December 11. Grades will be penalized for incorrect filenames and for late submission (10% loss/day late).

**Part B: Field Course (Winter Break- December 16-31, 2016)**

1. **Field module (45%)**

   Students choose one of two field modules, depending on their area of interest. These in-depth group projects are based on field observations in Antarctica and Ushuaia. Module descriptions, readings, and support materials are posted in Blackboard. The field course readings, course instructors, and ship-board field staff are resources to help you complete the modules- but not to provide you with the answers.

   • Final group module/research project paper submitted via the Blackboard field module dropbox using filename “Student group name field module paper” is due January 15, 2017.

2. **Student field journal and course synthesis paper (45%)**

   One of the objectives of this course is to enhance intellectual maturity and confidence through team work, cross-cultural interaction, and self-reflection. The field journal assignment includes directed reflection on the course as well as student experiences, observations, and interactions with the Antarctic environment and other ship passengers. Students submit their journal entries for review during the excursion to course instructors, and they use these entries to produce a post-trip 4-6 page course synthesis paper.

   • Synthesis paper submitted via the Blackboard synthesis paper dropbox using filename “student lastname synthesis paper” is due January 15, 2017.

3. **Retrospective Media Outreach project (10%)**

   Produce a media story (e.g., newspaper article, blog, video, public presentation, poster) or an educational outreach activity (~500 words) that describes how you benefited from the course, raises awareness of this study abroad course, or educates others about Antarctica. It must include details on BOTH your academic and personal experience related to both the online and field course components. The final product should (a) sufficiently professional so you could submit it to your college newspaper or study abroad office and (b) explain how you plan on using your project for outreach.

   • Retrospective Media Outreach project submitted via the Blackboard media paper dropbox using filename “student lastname media paper” is due January 15, 2017.

**Readings, Lectures and Other Class Material**

**Online Course**

Fall semester lectures (60-75 minutes each) are coordinated by American Universities International
Programs (AUIP) and delivered by experts from the University of Canterbury’s Gateway Antarctica: Centre for Antarctic Studies and Research. Before the fall online course begins, students will receive by email a username and password with instructions for logging into the online lecture site. You will need a speaker or headset to listen to the weekly online lectures, but will not need a microphone. The course syllabus, assignments, and weekly readings (listed in the schedule below) are posted in Blackboard, as are the dropboxes for all assignments.

Field Course

PLEASE NOTE- before departing for the Antarctic excursion, students need to assemble and bring (in print or electronic form) all readings and materials posted on Blackboard that are associated with the field module assignment and field journal assignment. Students can (a) print the documents and compile them in a notebook or (b) organize them in digital form on a notebook or laptop to bring on the field course. You must have these documents in Antarctica!

Recommended: Antarctic wildlife field guides are very helpful for students conducting the seabird field project. Dr. Spiller will have one of each of the following field guides that students can borrow, but you may want to bring your own:


Grade assessment

Final grades for OSU students will be assigned separately for the pre-departure (online) course (1 credit) and for the field course (3 credits). I anticipate that the grading scale for each will be:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>93.0 - 100 %</td>
</tr>
<tr>
<td>A-</td>
<td>90.0 - 92.99 %</td>
</tr>
<tr>
<td>B+</td>
<td>87.0 - 89.99 %</td>
</tr>
<tr>
<td>C+</td>
<td>77.0 - 79.99 %</td>
</tr>
<tr>
<td>B</td>
<td>83.0 - 86.99 %</td>
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<tr>
<td>C</td>
<td>73.0 - 76.99 %</td>
</tr>
<tr>
<td>B-</td>
<td>80.0 - 82.99 %</td>
</tr>
<tr>
<td>C-</td>
<td>70.0 - 72.99 %</td>
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</tbody>
</table>

Fall Course Schedule

**Week 1** - Wednesday August 31, 2016 (6 pm EST)

**Presenter:** Jamie Spiller, Course Introduction

**Reading:**

Week 2- Wednesday September 7, 2016 (6 pm EST)

Presenter: Gabriela Roldan, Ushuaia and the Antarctic Peninsula

Reading: (Read one of the following):

Week 3- Wednesday September 14, 2016 (6 pm EST)

Presenter: Gabriela Roldan, Ushuaia: Tourism destination or frontier town? The impacts of tourism at the end of the world

Week 4- Wednesday September 21, 2016 (6 pm EST)

Presenter: Peter Carey, History of Antarctic Exploration

Reading:

**ASSIGNMENT due:** Short Essay Question #1 by Sunday September 25 at 11:59 pm

Week 5- Wednesday September 28, 2016 (6 pm EST)

Presenter: Neil Gilbert, Antarctic territorial claims and introduction to the Antarctic Treaty System

Reading:

**ASSIGNMENT due:** Short Essay Question #2 by Sunday October 2 at 11:59 pm

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**Week 6-** Wednesday October 5, 2016 (6 pm EST)

**Presenter:** Peter Carey, Antarctic birds

**Reading:** (review list of birds at following website)

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**Week 7-** Wednesday October 12, 2016 (6 pm EST)

**Presenter:** Peter Carey, Antarctic Marine Ecosystems

**Reading:**

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**Week 8-** Wednesday October 19, 2016 (6 pm EST)

**Presenter:** Oliver Marsh, Glaciology and Ice

**Reading:**

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**Week 9-** Wednesday October 26, 2016 (6 pm EST)

**Presenter:** Paul Broady, Terrestrial Ecosystems in Antarctica

**Reading:**

**ASSIGNMENT due:** Short Essay Question #3 by Sunday October 30 at 11:59 pm

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**Week 10-** Wednesday November 2, 2016 (6 pm EST)

**Presenter:** Bryan Storey, Antarctic Geology

**Reading:**
Four short, non-peer reviewed entries in *The Antarctic Sun* (http://antarcticsun.usap.gov/), an online newspaper funded by the U.S. National Science Foundation Office of Polar Programs to raise awareness of publicly-funded Antarctic research and other related happenings.

• Continental connection: Research paper suggests East Antarctica and North America once linked: [http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2497](http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2497)

• Tectonic evolution: Geologists study ancient Antarctic landscape as possible influence on climate: [http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2415](http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2415)

• Turning over an old leaf: Paleobotanists reconstruct Triassic with fossilized plant material: [http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2412](http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2412)

• Warmer continent: Newly published study finds Antarctica a hotter place 14 million years ago: [http://antarcticsun.usap.gov/science/contenthandler.cfm?id=1510](http://antarcticsun.usap.gov/science/contenthandler.cfm?id=1510)

**ASSIGNMENT due:** Midterm Assignment by Sunday November 6 at 11:59 pm

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**Week 11-** Wednesday November 9, 2016 (6 pm EST)

**Presenter:** Gary Steel, Antarctic Psychology

**Reading:**

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**Week 12-** Wednesday November 16, 2016 (6 pm EST)

**Presenter:** Neil Gilbert, Environmental Management, Environmental Protocol, and the CEP

**Reading:**

**Week 13- NO CLASS PRESENTATION- THANKSGIVING BREAK**

**Week 14- Wednesday November 30, 2016 (6 pm EST)**

**Presenter:** Bryan Storey, Antarctic Research: Exploring the BIG questions

**Reading:**
• International Association Antarctica Tour Operators (IAATO). *Climate Change in Antarctica: Understanding the Facts.*

**ASSIGNMENT due:** Final Essay Exam by Sunday December 4 at 11:59 pm

**Week 15- Wednesday December 7, 2016 (6 pm EST)**

**Presenter:** Jamie Spiller and Larry Krissek, Antarctic Field Excursion Orientation

**ASSIGNMENT due:** Field Course Annotated Biblio. by Sunday December 11 at 11:59 pm

**Field Course Assignments due by Sunday January 15, 2017**
• Group Field Study Report
• Course Synthesis Paper
• Retrospective Media Outreach Project