Course Name: Projects (EEP-General Option, Senior Project)
Course Number: AEC 406
Term:
Catalog Description: Repeatable for a maximum of 16 credits. PREREQS: Departmental approval required.
Instructor name: Beau Olen
Instructor email: beau.olen@oregonstate.edu
Instructor phone: 541-737-1321
Link to instructor website: http://agsci.oregonstate.edu/users/beau-olen

Communication: Post all general course-related questions in the General Discussion so the whole class may benefit from our conversation. For matters relating to your project, post comments in your personal Progress Journal. For personal issues, send me an email (beau.olen@oregonstate.edu) or send a Canvas Inbox message (top right of Canvas).

Course Description and Structure: This is an independent study course and as such is unlike other courses you have taken for degree. The senior project is not merely a capstone project representing the culmination and integration of what the student has already learned, it is primarily a stepping-stone in the next phase of a career and may well serve as the launch pad for further success. It should represent a student’s best effort and demonstrate their ability to pursue a process of discovery. The senior project is a significant independent investigation undertaken by the student resulting in written and presentation products in a style appropriate to the discipline and career goals of the students.

Course Requirements:
- Students must complete a total of four to six credits for this project (length of paper will vary by number of credits).
- Students may complete this class in one or two terms, and must register for at least two credits per term. If completed over two terms, students are expected to complete Steps 1 and 2 in the first term (see below, “Steps and Assessment”).
- If completed over two terms, students will receive a separate grade for each term. Thus, students will have a separate Canvas site for each term of AEC 406.
- Deadlines for required tasks are set as a contract between the student and instructor.
- Students will develop their own project proposal and objectives under the guidance of the instructor.
- Students will be required to complete research, write a proposal and final report, as well as prepare a presentation. Detailed instructions will be provided.
**Student Learning Outcomes:** During and upon completion of this project students will demonstrate most of the following, but may not encompass every learning objective listed:

1. Develop research questions, hypotheses, theoretical bases, objectives, and methods.
2. Explain microeconomic theory at the intermediate level, including producer theory, consumer theory, how markets work and prices are formulated, market failure and its causes, and welfare theory.
3. Apply economic theory and tools to natural resource and environmental management issues and the management of specific resources (such as water, minerals, fisheries, forests, land and biodiversity), including analysis using:
   - Efficiency concepts and other criteria for evaluating environmental and resource management and policy,
   - Externalities and imperfect market structures, and
   - Basic policy instruments to control externalities, such as taxes, standards, subsidies, liability rules, and voluntary approaches.
4. Perform basic algebra and introductory calculus operations.
5. Apply statistics and regression techniques to economic problems and evaluate results.
6. Demonstrate computer skills needed to analyze economic issues.
7. Develop skills of research including locating sources of information and data, annotated bibliography, and citations.
8. Communicate through oral and written methods; specifically a project proposal, research paper, and presentation.

**Required Materials:**
- Internet Access
- OSU Canvas – [http://ecampus.oregonstate.edu/services/start/canvas-login.htm](http://ecampus.oregonstate.edu/services/start/canvas-login.htm)
- Computer with microphone for voice recording – free software links provided
- Optional: headset and webcam

**Steps and Assessment:**

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<tr>
<th>Step</th>
<th>Description</th>
<th>Points</th>
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<tbody>
<tr>
<td>1</td>
<td>Library Workshops (3 @ 3 pts)</td>
<td>9 pts</td>
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<td>2</td>
<td>Research Proposal</td>
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<td></td>
<td>Draft</td>
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<td></td>
<td>Final</td>
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<td></td>
<td>Annotated Bibliography (5@ 2 pts)</td>
<td>10 pts</td>
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<tr>
<td>3</td>
<td>Research Development Deadlines</td>
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<td></td>
<td>Section Drafts (5@ 5 pts)</td>
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<td>Final Paper</td>
<td>25 pts</td>
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<td>4</td>
<td>Presentation</td>
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<td></td>
<td>Draft Slides</td>
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<td></td>
<td>Final Slides/Presentation</td>
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**Final Grade Assignment:** 89.5-100% = A; 79.5-89% = B; 69.5-79% = C; 59.5-69% = D; 0-59.5% = F
Learning Activities

Annotated Bibliography: An annotated bibliography is an organized list of sources (references cited), such as books, journals, government reports, articles, newspapers, magazines, web pages, etc., that includes a summary of each item. For this class, each annotated bibliography should contain at least three sources. Further instructions and submission of these will be on Canvas.

Project Proposal: The proposal establishes the principal question the student hopes to address and creates a context for the question, grounds it with an academic justification, and outlines what steps will be taken toward the objective posed by the question. The goals or objectives should be clear to anyone reading the proposal whether or not they are familiar with the discipline and research methods. The proposal should be no longer than three pages. Further instructions and submission of these will be on Canvas.

Section Drafts: Students will write separate drafts for each section of the final paper: 1) introduction and literature review, 2) project statement and approach, 3) results, discussion, and conclusion, 4) abstract and appendices, and 5) references. It is highly recommended that students have their section drafts reviewed through the Writing Center, Online Writing Lab, or NetTutor (see below, “Student Services”) before they are submitted to the instructor. Further instructions and submission of these will be on Canvas.

Final Paper: Students should use the feedback from their section drafts to revise their work and write a final paper that includes all sections. The final paper should include title page, table of contents, and transitions between sections. Incorporate the feedback you receive in a way that suits your understanding and your views. It is highly recommended that students have their final paper reviewed through the Writing Center, Online Writing Lab, or NetTutor (see below, “Student Services”) before it is submitted to the instructor. Further instructions and submission of these will be on Canvas.

Presentation: Students prepare a presentation using one of several methods. Submit your draft slides to the instructor 5-7 days before the final presentation so that you have time to incorporate my feedback into the final presentation. Students can, if preferred, arrange with the instructor to give their presentation on campus. Further instructions and submission of these will be on Canvas.

Progress Journal: Students maintain a progress journal in Canvas. Instructor and student use this journal to visit and discuss progress, answer questions and note activities to keep the project completion on time.

Electronic Student Evaluation of Teaching (eSET): Course evaluation results are extremely important and are used to help the instructor improve this course and the learning experience for future students. Results are tabulated anonymously and go directly to instructors and department heads. Student comments on the open-ended questions are compiled and confidentially forwarded to each instructor, per OSU procedures. The electronic Student
Evaluation of Teaching form will be available toward the end of each term, and you will be sent instructions through your ONID email address by the Office of Academic Programs, Assessment, and Accreditation. You will log in to “Student Online Services” to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.

**Student Services**

**Tutoring:** The [Writing Center](#) offers free help with any writing task at any stage of the writing process and is open to all OSU students, as well as to staff, faculty, and members of the Corvallis community. Writing assistants can help with all aspects of the writing process from brainstorming and organization to questions of grammar and usage. Call (541) 737-5640 for an appointment.

Students may also submit their work-in-progress to the Center’s [Online Writing Lab](#).

[NetTutor](#) is a leading provider of online tutoring and learner support services fully staffed by experienced, trained and monitored tutors. Students connect to live tutors from any computer that has Internet access. NetTutor provides a virtual whiteboard that allows tutors and students to work on problems in a real time environment. **They also have an online writing lab where tutors critique and return essays within 24 to 48 hours.** NetTutor can be accessed on the left-hand panel in the course’s Canvas site.

**Technical Assistance:** This course will be delivered via Canvas where you will interact with the instructor. To preview how an online course works, visit the [Ecampus Course Demo](#). For technical assistance, please visit [Ecampus Technical Help](#). For 24/7 support for courses offered in Canvas, click the Help link in the upper right corner of any Canvas course site. Or, call the Canvas Support Hotline at 844-329-3084. You may also find helpful answers in the [Canvas Student Guide](#).

If you experience computer difficulties (e.g., downloading a browser or logging into the course) contact the OSU Computer Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the [OSU Computer Helpdesk](#) online.

**Special Needs and Accommodations:** Accommodations are collaborative efforts between students, faculty and [Disability Access Services (DAS)](#), with accommodations approved through DAS. Students are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

**Course Policies**

**Academic Honesty:** Violations of academic honesty will result in an F on the work in question and/or in the class. “Academic or Scholarly Dishonesty is defined as an act of deception in which a Student seeks to claim credit for the work or effort of another person, or uses
unauthorized materials or fabricated information in any academic work or research, either through the Student's own efforts or the efforts of another.” Violations include: Cheating, Fabrication, Assisting, Tampering, and Plagiarism. The OSU Statement of Expectations for Student Conduct is available [http://oregonstate.edu/admin/stucon/achon.htm](http://oregonstate.edu/admin/stucon/achon.htm)

**Expectations for Student Conduct:** Student conduct is governed by the university’s policies, as explained in the [Office of Student Conduct: Information and Regulations](http://oregonstate.edu/admin/stucon/achon.htm). Students are also expected to conduct themselves in compliance with the university's regulations regarding civility.