PHL 501.01: Philosophical Foundations of Ecology

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PHIL 501
Philosophical Foundations of Ecology
– University of Montana –
Fall 2013

Soazig Le Bihan
Chapter 1

Syllabus

1.1 Course Information

- Course Number: PHIL 501
- Credits: 3
- Class meets: Tuesdays and Thursdays, 2:10-3:30pm, LA 146
- Instructor: Soazig Le Bihan
  - Office Number: LA 153
  - Office Hours: Mondays and Wednesdays 3-4pm, Thursdays, 3:40-5pm, Fridays 1-3pm.
  - Mailbox: LA 101
  - Email: soazig.lebihan@umontana.edu
- Websites: Articles to download and information about your grades are on the Moodle course supplement and on the course website www.soaziglebihan.org/1201-PHL501.php

1.2 Course Description

In this seminar we will look at some of the key papers in philosophy of ecology (and perhaps, more broadly, environmental philosophy). Some of the topics covered will be: whether nature can be thought to be in balance, the complexity-stability debate, the role and nature of models in ecology, whether there are laws of ecology, what biodiversity is and why we should care about it.

Learning goals:

1. to learn about the major views of contemporary philosophers of ecology concerning the questions above;
To attain these goals, we will carefully read and discuss original texts by some of the most important philosophers of ecology of the 20th and the 21st centuries.

The final grade will be based on:

- Attendance and Participation: 20%
- 4 Syntheses: 5% each – total 20%
- 2 Presentations: 10% each – total 20%
- 1 Research Paper: 40%, including 3 presentations (5% each, total 15%), and the paper (25%)

See Section 1.4 for further details.

1.3 Course Schedule

Textbooks

We will read the following book in its entirety:


Other readings will be posted on the course website.

Proposed Schedule

You should expect to read about 40 to 60 pages a week (more if the content is not strictly philosophical). Remember that in order to understand a philosophy text, you will most often need to read it at least twice.

We will try to cover the following reading list. Depending on how fast we go, I may remove one or several articles from the list.

Part I: Balance of Nature:

Cooper chap. 1-3.

1.3. COURSE SCHEDULE


Part II: Models, Laws, Explanations in Ecology:

Cooper 4-8


Part III: Biodiversity:

Excerpts from:


Part IV: Existence and robustness of ecological communities:


Other possible topics of interest:

- Notion of “niche”

- The theory of Island biogeography and its relevance for designing biological reserves (SLOSS debate)

- Ecosystem ecology (reductionism)

- Individual-based model in population ecology (reductionism in ecology + use of computer simulations)

- Geographical Information System based models (influence of modes of representation on science)
1.3.1 Course Requirements

The final grade will be based on:

- Attendance and Participation: 20%
- 4 Syntheses: 5% each – total 20%
- 2 Presentations: 10% each – total 20%
- 1 Research Paper: 40%, including 3 presentations (5% each, total 15%), and the paper (25%)

Attendance Attendance is required, and necessary to succeed in the course. There will be a lot of material covered, and the material covered will be hard.

You are allowed to miss two classes without penalty. Following that, you will lose 2% up to a maximum of 10% (that is, a letter grade) every time you miss a class without a proper excuse.

You are expected to arrive on time and stay for the duration of the class. *Three late arrivals count as one absence.* If you have to leave early, please tell me at the beginning of class and sit close to the exit to minimize the disturbance to the class.

You are expected to give your full attention to the class. Cell phones or other means of communication should be silenced for the duration of class. You will be asked to leave if you are doing anything not relevant for class, e.g. reading the newspaper, sleeping, doing work for other classes, etc. *Three offenses of this type will count as one absence.*

That said, absences may be excused in cases of illness or other extreme circumstances. Relevant documentation is required in such cases. You also will be expected to work through the material covered during the classes you may have missed.

Participation I encourage you to participate in class. Trying to answer my questions or asking questions qualify as participation. You will not be penalized for answering incorrectly. I want to emphasize that your questions are welcome and that you should aim to leave the classroom with a good understanding of the material covered.

Syntheses There are about 4 themes in our program of study. To each theme corresponds a group of articles. When we finish with one of the groups, you will be required to write down a synthesis of the material we covered.

In a synthesis, you are expected to summarize what the main problem is, which kinds of solutions are available, and what the advantages and drawbacks are for each of these solutions are. Your synthesis can take the form of a schema, an outline with bullet points, or it can be a few paragraphs. In any case, it should fit on two pages maximum.

On the days a synthesis is due, I will ask one of you to present your synthesis. I will not tell you in advance who will be asked to present.
You will be penalized by 5% every time you don’t turn in your synthesis up to 20% maximum.

**Presentations** You will be required to present on two articles in class from the primary literature. For your presentation you will have to have an excellent command of the article you are presenting on as you will be leading discussion. The presentations should have two parts: 1. A summary of the main question(s) the author(s) deal(s) with and their proposed solutions (taking no more than 30 min.) and 2. a set of problems for discussion. You should provide a handout (with your name written on it) to me and the class with a list of the problems for discussion.

To be clear, a problem is a reason for thinking the author’s argument is defective in some way, i.e. defective premises or weak argument structure. In addition, some of your questions might relate the article being discussed to previous work we have discussed.

*I will expect to receive a copy of your handout on the Thursday before the class on which your presentation is scheduled BEFORE 5 AM so I can give you feedback. I will not be able to give you any feedback on your presentation if I don’t receive your draft on time.*

You should plan on meeting with me to discuss your presentation during my office hours are on Thursdays 3:40-5pm.

I recommend that one of your presentations be on an article related to your research paper.

**Research Paper** You will be required to write a paper on the order of 12 pages (no less than 10) on a topic of your choosing. Original thinking is necessary for a research paper. That said, original thinking does not amount to asserting your personal opinions without taking into account any appropriate literature on your topic. For a research paper, the challenge is to find a topic which is not too broad and to treat it incisively. In order to help you do this, I will require that you take on at least one primary source (from a reputable collection of papers or philosophy journals) as a starting point. Such a source should not have been used in class. Reference works, encyclopedia articles, etc. do not meet this requirement. I will be glad to assist in the selection and formulation of the topic. For most of research papers, one article is not enough: you are expected to at least partially survey the relevant literature on the topic of your choice – I can help you with this.

- You will be required to present your project on Nov 5th (Week 11). Your presentation should contain your thesis statement, a short outline of your argument, and a significant bibliography.

- After that, you will be required to present the progress you have made on your project in class every other week until the final version is due.

- The final version of your paper is due on December 10th, at 2 pm in my mailbox.

The presentations as well as the final version of your paper count for your final grade (15% and 20% respectively). I will give you comments on your presentations. The final
version of your paper will be partially graded on the basis of how well you responded to my comments on your presentations.

*Note that the presentation before Spring Break counts for 5% of your grade, that is, half a letter grade. You are expected to give a serious presentation, which means that you should start working on your research paper early in the semester. A research paper is a project for the entire semester. Don’t expect to be able to get it done the week before it is due.*

All papers must be typewritten, double-spaced, paginated, stapled, the notes at the bottom of the pages; no outline or bullet points.

**Late Assignment Rules** Without prior arrangements, the grade of any late assignment will be lowered by one letter grade a day.

**IMPORTANT NOTE:** If you encounter difficulties concerning an assignment, **it is almost always possible to make arrangements before the assignment is due.** No accommodation is possible once the deadline has passed. **Come and talk to me before it is too late.**

**Writing Center** Students from all levels can take advantage of the writing center (LA 144: drop in or by appointment)

“The Writing Center exists to help all UM students improve their writing skills as they pursue their academic and professional goals. We provide free writing instruction through one-on-one tutoring, in-class workshops, and the Writing Assistant program.”

(quoted from the writing center website)

The tutors won’t write your paper for you, but they will teach you how to write better. For more information, go the website: [http://www.umt.edu/writingcenter/welcome/about.htm](http://www.umt.edu/writingcenter/welcome/about.htm)

**Academic Misconduct** You are strictly held to the University of Montana Student Conduct Code ([http://life.umt.edu/vpsa/documents/StudentConductCode1.pdf](http://life.umt.edu/vpsa/documents/StudentConductCode1.pdf)).

Unless collaborative work is specifically called for, work on assignments and exams is expected to be your own. If you plagiarize, your assignment will receive a zero. You may fail the class altogether depending on the circumstances. Also, I will report the case to the Dean.

I will be glad to answer questions you may have about how to document sources properly. Anytime you take a phrase or sentence from someone, you have to quote it. Anytime you take an idea from someone, you have to cite your sources.

**Students with Disabilities** If you are a student with a disability and wish to discuss reasonable accommodations for this course, contact me privately to discuss the specific modifications you wish to request. Please be advised I may request that you provide a letter from Disability Services for Students verifying your right to reasonable modifications. If you have not yet contacted Disability Services, located in Lommasson
1.4. Grading Policies

1.4.1 Participation evaluation

- A range: The student is fully engaged and highly motivated. This student is well prepared, having read the assigned texts, and has thought carefully about the texts’ relation to issues raised previously in class. This student’s ideas and questions are substantive (either constructive or critical); they stimulate class discussions. This student listens and responds to the contributions of other students.

- B range: The student participates consistently in discussion. This student comes to class well prepared and contributes quite regularly by sharing thoughts and questions that show insight and a familiarity with the material. This student refers to the materials previously discussed in lecture and shows interest in other students’ contributions.

- C range: The student meets the basic requirements of section participation. This student is usually prepared and participates once in a while but not regularly. This student’s contributions relate to the texts and the material previously covered, but offer very few insightful ideas, and do not facilitate a discussion.

- D range: The student comes to class, but often unprepared. This student’s contributions are often unrelated to the topic at hand, provide no insightful ideas, and do not facilitate discussion.

- F range: The student often does not come to class, or, if he or she does, he or she generally neither participates nor makes any insightful contributions related to the topic at hand.

1.4.2 Presentation Evaluation

- A range: The student presents an accurate reconstruction of the problem that the author is dealing with, an accurate and charitable reconstruction of the arguments pertaining to that problem, and a careful criticism of the author’s arguments via the discussion questions. S/he takes an active role leading discussion of the paper by responding to student’s comments. In particular, s/he will have anticipated responses to the discussion questions, especially how s/he thinks the author(s) might respond, and uses those to draw out more elaborate comments about students’ responses or to generate further discussion.
• B range: The student presents a reasonable reconstruction of the problem that the author is dealing with, a charitable reconstruction of the arguments pertaining to that problem, and some criticism of the author’s arguments via the discussion questions. S/he will lead discussion of the paper and respond to student’s comments.

• C range: The student states the topic of the paper without articulating the problem that the author intends to address. S/he provides a summary of the paper (mere chronology without isolating the main arguments). S/he provides discussion questions that are related to the text, but that are not primarily geared to addressing possible weaknesses in the author’s argument. S/he asks questions, but does not develop discussion.

• D range: The student misconstrues the author’s main claims in some significant respect. S/he provides a poor summary or reconstruction of the argument. S/he does not provide any discussion questions, or, if s/he does, such questions are to a large extent irrelevant to the problem at stake.

• F range: The student fails to provide a reconstruction of the paper, and, if s/he provides discussion questions, such questions are irrelevant to the problem at hand.

1.4.3 Synthesis Evaluation

• A range: The student presents an accurate reconstruction of the main problem(s) that the authors are dealing with. The student presents an articulate and charitable comparative analysis of the various solutions that these authors propose to that problem. That is to say, The student analyzes and compares the advantages and drawbacks of these solutions.

• B range: The student presents a good reconstruction of the main problem(s) that the authors are dealing with. Although the student presents an articulate and charitable analysis of the various solutions that these authors propose to that problem, his or her presentation of these solutions consists in a juxtaposition of the views of the authors taken one after the other, instead of a comparative analysis of the advantages and drawbacks of these views.

• C range: The student presents a rather poor reconstruction of the main problem(s) that the authors are dealing with, or, if the reconstruction of the problem is reasonable, the student presents a rather poor analysis of the various solutions that these authors propose to that problem. The student does not offer any true comparative analysis of these solutions.

• D range: The student misconstrues the problem or the authors’ main claims and argument in a significant respect. S/he provides a pretty poor summary of the solutions offered, and fails to provide any comparative analysis of these views.

• F range: The student fails to provide a reconstruction of the problem or of the solutions offered. If there is a comparative analysis, it is largely irrelevant to the problem at
1.4.4 Paper / Essay evaluation

Six criteria for evaluating a paper:

- Substance,
- Thesis and argument structure, including introduction and conclusion,
- Use of supporting material and evidence,
- Quality of analysis, including the crucial distinction between unsupported assumptions and value judgments vs. analysis and argumentation,
- Use of quality sources,
- Quality of writing including grammatical correction, clarity, conciseness and persuasiveness.

- A range: This paper is outstanding in form and content. The material covered in class is understood in depth: the student shows that s/he has a command on, including a critical understanding of, the material. The thesis is clear and insightful; it is original, or it expands in a new way on ideas presented in the course. The argument is unified and coherent. The evidence presented in support of the argument is carefully chosen and deftly handled. The analysis is complex and nuanced. The sources are original texts or quality scholars’ literature. The student utilizes appropriate grammar/spelling/punctuation as well as a clear, precise, and concise style.

- B range: The argument, while coherent, does not have the complexity, the insight, or the integrated structure of an A range paper. The material covered in class is well understood: the student does not make any mistake on the materials but does not show great depth in critical understanding. The paper’s thesis is clear and the argument is coherent. The paper presents evidence in support of its points. The sources are original texts or quality scholars’ literature. The student utilizes appropriate grammar/spelling/punctuation as well as a clear, precise, and concise style.

- C range: This paper has some but not all of the basic components of an argumentative essay (i.e., thesis, evidence, coherent structure). For example: the paper features a clear misunderstanding of some of the material covered in class, or the thesis is not clear or incoherent, or the argument is not coherently structured, or evidence in support of the thesis is lacking, or only non-scholare sources are used. The student still utilizes appropriate grammar/spelling/punctuation as well as an appropriate argumentative writing style.

- D range: This paper features very few of the basic components of an argumentative essay. It may be rather poorly written and proofread.
• F range: This paper does not qualify as an argumentative essay and/or it is very poorly written and proofread.

Sources

- Tips for grading in the humanities, Stanford Center for Teaching and Learning website
- Introduction to the Humanities Program, STANFORD UNIVERSITY, Information for Faculty, 2005-06

http://www.stanford.edu/dept/undergrad/ihum/instructors/

1.5 Additional Reading Material

Background Reading


1.5. ADDITIONAL READING MATERIAL

Balance of Nature


Models

Literature on Models: ask me!


1.5. ADDITIONAL READING MATERIAL


Biodiversity


Community


