# Philosophy 3334: Philosophy of Biology Summer 2017

#### **Basic Information**

Instructor: Joel Velasco E-mail: joel.velasco@ttu.edu Campus mailbox: 250 Eng/Phil

Office: 265G Eng/Phil

## **Course Description**

This course provides an introduction to the burgeoning field of philosophy of biology. This is a **reading-intensive**, **discussion-based** course. In other words, students are expected to come to class having read the assigned material, and ready to discuss it. You are not expected to understand everything in the readings, but you are expect to raise questions about what you don't understand, engage in debate and dialog about the material, and raise objections to claims that seem questionable. Rather than sit passively, I want you to THINK FOR YOURSELF and ACTIVELY ENGAGE with the readings, other students, and the instructor. **You cannot do well in this course without doing the assigned readings.** Although there are no prerequisites, it is an advantage to have *some* background in philosophy and theoretical biology.

To begin, will examine a range of philosophical questions that arise within the study of evolutionary biology and its application to the human sciences. We'll first discuss questions concerning selection, fitness, adaptationism, and evolutionary explanations. We'll then look at Sociobiology and Evolutionary Psychology with an eye toward thinking about humans and human nature. We will then ask how we can (and should) study human behavior and finally, we will ask if human races exist.

#### **Class Participation**

Philosophy is a communal enterprise: the ability to make valuable oral contributions to philosophical discussions can be as important as the ability to write well. Moreover, since the written assignments will force the students to think carefully about very specific topics, participation in class discussion is an important way for students to demonstrate a broader competence with the material than is possible in the papers alone. Evaluation will be based upon the quality, not the quantity, of comments made during class. Students are encouraged to continue class discussions after the class is over, by meeting with me in person, or continuing the discussion over e-mail with me. Of course discussion with each other outside of class is strongly encouraged as well. Students who for any reason have difficulty speaking up in class are especially encouraged to (and must!) pursue these options. It should go without saying that attendance is an absolutely essential component of class participation.

#### **Academic Integrity:**

Cheating and plagiarism are, of course, prohibited in this class just as they are in all university classes. They will be taken particularly seriously in this class, and any cases that may arise will be treated in a manner consistent with University policy. These two violations of academic integrity are each defined in the section of the Texas Tech online

official publications titled "Academic Integrity." Plagiarism is there described as follows: "Plagiarism' includes, but is not limited to, the appropriation of, buying, receiving as a gift, or obtaining by any means material that is attributable in whole or in part to another source, including words, ideas, illustrations, structure, computer code, other expression and media, and presenting that material as one's own academic work being offered for credit." http://www.depts.ttu.edu/studentconduct/academicinteg.php
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You can find excellent explanations of what specifically constitutes plagiarism as opposed to proper citation, and also tutorials on how to avoid plagiarism at the following websites: http://www.dartmouth.edu/~writing/sources/

http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml Note: If, at any time, you are at all unclear about what counts as plagiarism, or about whether you are properly citing sources in any of your written work, please just come by and ask me about it. You do not want to be confused or careless about this serious matter.

#### Grades

The grades will be based on class participation, short essays, two in-class exams, and final take-home exam.

- Participation/attendance: (10%): Class attendance is required. Please come to class on time and prepared. This class will only work if students are prepared to put effort into it. If you come prepared every day or miss only one day, you will receive the full 10 points for participation. If you miss 2 days, you will receive 5/10 points. If you miss three days you will receive 0/10. I will assume that your reason for missing class is a serious one so there is no need to email me to explain. Your attendance score does not depend on what your reasons for missing class were. In addition, if you have four or more unexcused absences in a summer class such as this one, you have not been a serious participant and so you will automatically fail the class.
- Short Essays (30% 5% each): Periodically throughout the semester (see due dates marked on the course schedule), you will be asked to write short essays (approximately 2 double-spaced pages). These short essays are intended to stimulate you to think independently and creatively about the readings for the past few days. There will be six short essays in all, and I will drop your lowest essay score.
- ➤ Midterm Exams (40% 20% each): There will be one midterm examination on Thursday, March 10<sup>th</sup> (before spring break). The midterm will be divided into two parts, short answer and essay. The short answer section will test knowledge of important concepts, often by either providing an example to which you must apply the concept or by asking you to supply an example yourself that illustrates the concept. Questions in the essay portion of the exam will test your ability to reconstruct chains of philosophical argumentation, for example, the back-and-forth between two contrasting views. The essay questions may also ask you critically assess ideas or arguments.

Final Exam (20%): We will have a final take-home exam in the course which will be due during our scheduled final exam (Saturday, July 8th). There will be no inclass final.

# **Rough Grading Scale:**

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92-100\% \rightarrow A

90-92\% \rightarrow A

88-90\% \rightarrow B+

82-88\% \rightarrow B

80-82\% \rightarrow B-

78-80\% \rightarrow C+

70-78\% \rightarrow C-

65-70\% \rightarrow C-

50-65\% \rightarrow D

0-49\% \rightarrow F
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Falling in a grade range such as '88-90%' indicates that you received at least 88% of the points and less than 90% of the points. So 89.99% is a B+, while 90% is an A-. Scores are not rounded in any way.

# **Late Paper Policy**

Late assignments will not be accepted, though you do get to drop your lowest short essay score.

**Religious holy days:** a student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent for the observance of a religious holy day shall be allowed to take an exam or complete an assignment scheduled for that day within a reasonable time after the absence.

**ADA Statement:** Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note: instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, please contact Student Disability Services in West Hall or call 806-742-2405.

## Required books:

Peter Godfrey-Smith, Philosophy of Biology, Princeton University Press, 2014 (PGS) All other readings will be found on the course website: http://joelvelasco.net/teaching/3334

# **Rough Course Outline:**

Week 1: (June 6<sup>th</sup>-June 9<sup>th</sup>)

Tue: Introduction, Machery, "A plea for human nature"

Wed: PGS 1, Plutynski, "Should intelligent design be taught in public school science classrooms?"

Thur: PGS 2, Beatty, "The evolutionary contingency thesis."

Fri: PGS 3, Mills and Beatty, "The propensity interpretation of fitness"

Week 2: (June 12<sup>th</sup>-June 16<sup>th</sup>)

Mon: PGS 4, Ruth Garrett Millikan, "In defense of proper functions."

Tue: PGS 5, Clarke, "The Problem of Biological Individuality"

Wed: PGS 7, Velasco "Species concepts should not conflict with evolutionary theory, but often do"

Thur: PGS 9

Fri: In Class Exam

Week 3: (June 19<sup>th</sup>-June 23<sup>rd</sup>)

Mon: PGS 6, Kaplan, "Misinformation, Misprepresentation, and Misuse of Human Behavioral Genetics Research"

Tue: From E.O. Wilson, *Sociobiology*, Barash, The Sociobiology of Human Behavior: Extrapolations and Speculations (Chapter 10 of *Sociobiology and Behavior*), *Time* 

Magazine, "Why you do what you do"

Wed: Levy, Chapter 5 of What Makes us Moral.

Thur: PGS 8, Dawkins, from The Selfish Gene

Fri: Sober, Ch 4 of The Philosophy of Biology

Week 4: (June 26<sup>th</sup>-June 30<sup>th</sup>)

Mon: Levy, Chapter 2 of What Makes us Moral.

Tue: Levy, "The Evolution of Morality", Prinz, "Is Morality Innate?"

Wed: In Class Exam

Thur: APA statement on gender differences, Fausto-Sterling, from Sexing the Body,

Pinker, from The Blank Slate

Fri: Fine, from Delusions of Gender,

Week 5: (July 3<sup>rd</sup>-July 6<sup>th</sup>)

Mon: Haslanger, "Gender and Race: (What) Are they? (What) Do we want them to be?"

Tue: NO CLASS – July 4<sup>th</sup> Holiday

Wed: Glasgow, from A Theory of Race, Kitcher, "Race, Ethnicity, Biology, Culture"

Thur: Winther, "The Genetic Reification of Race"

# Fri: NO CLASS

Saturday, July 8<sup>th</sup> FINAL EXAM TIME scheduled for 11-1:30.