ANG 6583 section 12E5

Issues in Evolutionary Anthropology Fall 2014

TIME: Mondays Periods 7–9 (1:55 – 4:55 PM)

PLACE: TUR 2303

INSTRUCTOR: David Daegling, TUR B376
294-7603 daegling@ufl.edu

OFFICE HOURS: Mondays 10:30 – 11:30 AM; Wednesdays 1:00 – 3:00 PM.

COURSE OBJECTIVES:

This seminar examines the role of evolutionary theory in the methods and practice of biological anthropology. Major issues in evolutionary biology are explored through examples from the anthropological literature, and we will also consider the contribution of cognate fields to evolutionary theory. The challenges in applying theoretical concepts to specific research questions and the influence of evolutionary theory on anthropological thought are emphasized.

COURSE REQUIREMENTS:

Attendance and active participation in the seminar are essential for the success of the course. Absence from class and/or failure to participate in discussion of assigned readings will detrimentally influence your course grade. Throughout the semester, you will be asked to discuss issues raised in the assigned readings and offer questions for further discussion. Three papers (5-7 pages each) will be assigned over the course of the semester; topics for these papers will be distributed two weeks in advance. Papers are to be submitted as printed or electronic copies at the beginning of class on the due date. Participation will account for 25% of your course grade; each paper accounts for 25% of your grade. Information on current UF grading policies for assigning grade points can be found at
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

OTHER POLICIES:

Cell phones and pagers must be turned off during class. Late papers are subject to a full letter grade reduction. Incompletes will not be granted for any work submitted beyond the end of term (12/10). Plagiarism in any form is subject to university policy. Students requesting classroom accommodation must first register with the Dean of Students Office (DSO). The DSO will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Students experiencing personal problems that are interfering with their academic performance are encouraged to contact the University Counseling Center (301 Peabody Hall, 392-1575), Student Mental Health (Student Health Care Center, 392-1171), or Sexual Assault Recovery Services (Student Health Care Center, 392-1161).
COURSE SCHEDULE:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (8/25)</td>
<td>Fundamentals of Evolution</td>
</tr>
<tr>
<td>2 (9/1)</td>
<td>No Class</td>
</tr>
<tr>
<td>3 (9/8)</td>
<td>Natural Selection</td>
</tr>
<tr>
<td>4 (9/15)</td>
<td>The Adaptationist Paradigm</td>
</tr>
<tr>
<td>5 (9/22)</td>
<td>Species Concepts</td>
</tr>
<tr>
<td>6 (9/29)</td>
<td>Systematic Philosophy (<em>1st paper due</em>)</td>
</tr>
<tr>
<td>7 (10/6)</td>
<td>Units of Selection Revisited</td>
</tr>
<tr>
<td>8 (10/13)</td>
<td>Tempo and Mode in Evolution</td>
</tr>
<tr>
<td>9 (10/20)</td>
<td>Macroevolution</td>
</tr>
<tr>
<td>10 (10/27)</td>
<td>Genes and Phenotypes</td>
</tr>
<tr>
<td>11 (11/3)</td>
<td>Approaches to Morphology (<em>2nd paper due</em>)</td>
</tr>
<tr>
<td>12 (11/10)</td>
<td>Heterochrony and Life Histories</td>
</tr>
<tr>
<td>13 (11/17)</td>
<td>Evolution of Cooperation</td>
</tr>
<tr>
<td>14 (11/24)</td>
<td>Evolution and Human Behavior</td>
</tr>
<tr>
<td>15 (12/1)</td>
<td>Trends in Evolution</td>
</tr>
<tr>
<td>16 (12/8)</td>
<td>Social/Metaphysical Dimensions of Evolutionary Thought (<em>3rd paper due</em>)</td>
</tr>
</tbody>
</table>

**Course Readings:** George C. Williams (1966) *Adaptation and Natural Selection* is required and is to be read in its entirety by Week 3 (9/8). Douglas Futuyma’s *Evolutionary Biology* (Sinauer) is recommended as a supplementary text for students who wish to review core concepts in evolutionary theory, but there will be no formal assignments from this text. Assigned articles are posted in pdf format on the course website (Canvas platform) [https://lss.at.ufl.edu/](https://lss.at.ufl.edu/)

**Week 4**  
**Adaptationist Paradigm**


**Week 5  Species Concepts**


**Week 6  Systematic Philosophy**


**Week 7  The Units of Selection**


Week 8  **Tempo and Mode in Evolution**


Week 9  **Macroevolution**


Erwin DH. 2000. Macroevolution is more than repeated rounds of microevolution. Evol Dev 2: 78-84.


Week 10  **Genes and Phenotypes**


**Week 11  Approaches to Morphology**


**Week 12  Heterochrony and Life Histories**


**Week 13  Evolution of Cooperation**


Week 14  Evolution and Human Behavior


Week 15  Trends in Evolution


Week 16  Social and Metaphysical Dimensions of Evolutionary Thought


