Chapman University

University Honors Program Course (714) 744-7646 Fax (714) 532-6048

University Honors Program: HON 207-01
Darwin’s Evolutionary Theory: The Science and the Controversy
Syllabus - Spring 2018
Tuesday & Thursday 10 AM - 11:15 AM in AF-205

Course Description: Prerequisite: acceptance to the University Honors Program, or consent of instructor. This course will address the topic Darwin’s theory of evolution by natural selection and its place in scientific thought, and explore the controversy surrounding it for many in the general public. We will explore the options for finding comfort with both the science of evolution and one’s personal religious beliefs. (Offered as needed.) 3 credits.

Instructor: Dr. Fred Caporaso, Professor, Schmid College of Science and Technology
Email: caporaso@chapman.edu
Hashinger Science Center, Room 216 (714) 997-6638
Honors Program Coordinator, Ashley Melton (714) 744-7646 melton@chapman.edu

Office Hours: Directly after class or by appointment. I am on campus almost every day.

GE 7NI Learning Outcome (Natural Science Inquiry):
Students will be able to use scientific principles and reasoning as a way of knowing the natural world, distinguishing science from non-science.
Course Learning Objectives:
* Apply the scientific method to analyze the natural world.
* Explain the difference between a scientific theory and “theories” in everyday life.
* Evaluate the science supporting Darwin’s theory of evolution by natural selection, and its crucial role in many scientific disciplines.
* Analyze and articulate the controversy surrounding the theory of evolution.

GE 7VI Learning Outcome (Values Inquiry):
Articulates how values and ethics inform human understanding, structures, and behavior
Course Learning Objectives:
* Explore and assess the values and ethical norms of the Victorian age, and how they influenced Charles Darwin’s thoughts and actions.
* Analyze why so many Americans don’t “believe” in evolution.
* Evaluate the options for finding comfort with both the science of evolution and one’s personal religious beliefs.

Honors Program Learning Outcomes:
Upon completing a course in the University Honors Program students will have:
1. Obtained a starting point for integrative exploration of the development of cultures and intellectual achievements through a variety of disciplinary and interdisciplinary perspectives;
2. Sharpened their ability to critically analyze and synthesize a broad range of knowledge through the study of primary texts and through engagement in active learning with fellow students, faculty, and texts (broadly understood);
3. Understood how to apply more integrative and interdisciplinary forms of understanding in the advancement of knowledge and in addressing complex challenges shaping the world; Developed effective communication skills, specifically in the areas of written and oral exposition and analysis.
Textbooks:

Required:

- Coyne, Jerry A. *Faith Versus Fact: Why Science and Religion Are Incompatible*. Faith Versus Fact: Dan Barker interviews Jerry Coyne (56 min.). [https://www.youtube.com/watch?v=1o5CQAPsJ2I](https://www.youtube.com/watch?v=1o5CQAPsJ2I)
- Coyne, Jerry A. The Darwin Day Lecture 2016, with Jerry Coyne | Evolution and atheism - best friends forever? (82 min.). [https://www.youtube.com/watch?v=sazo1J4Zsj4](https://www.youtube.com/watch?v=sazo1J4Zsj4)

Recommended:


Grading: Points:

Midterm Exam – Thursday March 29 100
Final Exam – Tuesday May 15
Super Term Paper- due at 11:59 PM 200
6 Quizzes/Reflection papers - Random Tuesdays 100 (20 each)
   Short essay about crucial cool stuff you learned in HON 207
   Lowest quiz grade will be dropped

Group Presentation-Analysis of an assigned scholarly video
Lead class discussion by posing questions/draw conclusions 100
Active and appropriate participation (class attendance and
focused and meaningful involvement in class activities 50

TOTAL POINTS 550

GRADING SCALE

A 509 93%
A- 492 90%
B+ 481 88%
B 454 83%
B- 437 80%
C+ 426 78%
C 399 73%
C- 382 70%
D+ 371 68%
D 344 63%
D- 327 60%
F Below 327

• All students are encouraged to attend every class meeting. Poor attendance will affect your grade. Absences exceeding 20% normally result in the student receiving a grade of “F” or “NP” unless he/she withdraws officially (2 “tardies” constitute an absence). Active and appropriate participation (class attendance; focused and meaningful involvement in class activities). Each student is required to take an active part in class discussions.

• All cell phones must be off and put out of reach during class time. Side chatting or cell phone use in class is unacceptable, and offenders will be asked to leave and marked absent.

• There will be no make-up exams or quizzes! Documentation is required for all class conflicts such as athletic team travel, deaths in the family, hospitalization, etc.

• Assignments must be submitted on time through Blackboard (click on “Assignments” and follow the instructions, make sure you click on “submit” as your last step). Students will be penalized 20% for handing an assignment in late on the day it is due and another 40% for each day the assignment is late thereafter. Before handing in assignments make sure they are proofed, edited, referenced properly (see reference style on Blackboard) and typed neatly (double spaced in font 12)!

• In addition to the readings and lectures listed in the course outline, students may be responsible for other assignments given in class. Also, some assignments, such as attending a film or guest speaker, may require a time commitment other than the scheduled class period. One such assignment will be a mandatory day-long Sunday field trip to the San Diego Zoo, which is considered one of the best in the world (TBA). Please note that this course requires close attention, active participation, and heavy reading and writing assignments at times; also, all reading assignments may not be discussed in class. Please be aware that the course outline is just a guide. We may vary the contents and the time projections, depending on unexpected events, speakers, etc. and the needs of the class.
Chapman University’s Academic Integrity Policy:
“Chapman University is a community of scholars that emphasizes the mutual responsibility of all members to seek knowledge honestly and in good faith. Students are responsible for doing their own work and academic dishonesty of any kind will be subject to sanction by the instructor/administrator and referral to the university Academic Integrity Committee, which may impose additional sanctions including expulsion. Please see the full description of Chapman University's policy on Academic Integrity at www.chapman.edu/academics/academicintegrity/index.aspx

Chapman University’s Students with Disabilities Policy
“In compliance with ADA guidelines, students who have any condition, either permanent or temporary, that might affect their ability to perform in this class are encouraged to contact the Disability Services Office. If you will need to utilize your approved accommodations in this class, please follow the proper notification procedure for informing your professor(s). This notification process must occur more than a week before any accommodation can be utilized. Please contact Disability Services at (714) 516-4520 or visit www.chapman.edu/students/student-health-services/disability-services if you have questions regarding this procedure or for information or to make an appointment to discuss and/or request potential accommodations based on documentation of your disability. Once formal approval of your need for an accommodation has been granted, you are encouraged to talk with your professor(s) about your accommodation options. The granting of any accommodation will not be retroactive and cannot jeopardize the academic standards or integrity of the course.”

Chapman University’s Equity and Diversity Policy
“Chapman University is committed to ensuring equality and valuing diversity. Students and professors are reminded to show respect at all times as outlined in Chapman’s Harassment and Discrimination Policy. Please see the full description of this policy at http://www.chapman.edu/faculty-staff/human-resources/eoo.aspx. Any violations of this policy should be discussed with the professor, the Dean of Students and/or otherwise reported in accordance with this policy.”

Student Support at Chapman University. Over the course of the semester, you may experience a range of challenges that interfere with your learning, such as problems with friend, family, and or significant other relationships; substance use; concerns about personal adequacy; feeling overwhelmed; or feeling sad or anxious without knowing why. These mental health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. You can learn more about the resources available through Chapman University’s Student Psychological Counseling Services here: https://www.chapman.edu/students/health-and-safety/psychological-counseling/

Fostering a community of care that supports the success of students is essential to the values of Chapman University. Occasionally, you may come across a student whose personal behavior concerns or worries you, either for the student’s well-being or yours. In these instances, you are encouraged to contact the Chapman University Student Concern Intervention Team who can respond to these concerns and offer assistance: https://www.chapman.edu/students/health-and-safety/student-concern/index.aspx

While it is preferred that you include your contact information so this team can follow up with you, you can submit a report anonymously. 24-hour emergency help is also available through Public Safety at 714-997-6763.
<table>
<thead>
<tr>
<th>Date</th>
<th>Tentative Discussion Topics</th>
<th>Textbook Reading /Background Assignments</th>
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<tbody>
<tr>
<td>1/30</td>
<td>Science: As a way of knowing</td>
<td>Blackboard (Bb) documents The Sciences Chapters 1</td>
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<tr>
<td>2/6</td>
<td>The Facts of Evolution</td>
<td>B- Introduction, Chapter 1</td>
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<td>2/8</td>
<td>Darwin highlights</td>
<td>H - John Stephens Henslow as a mentor</td>
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<td>2/13</td>
<td>Charles Darwin &amp; the Tree of Life- DVD</td>
<td>B - Chapters 2</td>
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<td>2/15</td>
<td>Darwin’s Dangerous Idea - DVD</td>
<td>B- Chapters 3</td>
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<td>2/20</td>
<td>Darwin: the early years</td>
<td>B- Chapters 4 &amp; 5</td>
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<td>2/22</td>
<td>Voyage of the Beagle</td>
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<td>2/27</td>
<td>The Galápagos Islands</td>
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<td>3/1</td>
<td>Punctuated Equilibrium- Gould, The</td>
<td>Sean B. Carroll – Making of the Fittest (5 short films- 70 min.)</td>
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<td>3/6</td>
<td>Evolution as observable fact- the</td>
<td>NOVA. Dawn of Humanity. Video (1:53 min.)</td>
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<td>3/8</td>
<td>Discussion - Dawn of Humanity, etc.</td>
<td>Miller-DVD–Fossils, genes &amp; mousetraps –Chapters 28-37</td>
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<td>3/13</td>
<td>Miller-video–Dawn of Humanity, etc.</td>
<td>C (DVD), Co(DVD), G, M, Z (watch/read as background for your Super Term Paper)</td>
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<td>3/15</td>
<td>Discussion - Fossils, genes &amp; mousetraps</td>
<td>C (DVD), Co(DVD), G, M, Z (watch/read as background for your Super Term Paper)</td>
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<td>3/27*</td>
<td>MIDTERM EXAM</td>
<td>C (DVD), Co(DVD), G, M, Z (watch/read as background for your Super Term Paper)</td>
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<td>3/29*</td>
<td>Discussion</td>
<td>C (DVD), Co(DVD), G, M, Z (watch/read as background for your Super Term Paper)</td>
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<td>4/3*</td>
<td>The Evolutionary Arms Race- Evolution DVD</td>
<td>Part 1, Group 1</td>
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<td>4/5*</td>
<td>Group 1 - Discussion</td>
<td>Part 1, Group 1</td>
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<td>4/12*</td>
<td>Group 2 - Discussion</td>
<td>Part 2, Group 2</td>
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<td>4/19*</td>
<td>Group 3 - Discussion</td>
<td>Group 3</td>
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<td>4/24</td>
<td>Collison: Is Religion Good For the World? DVD</td>
<td>Group 4</td>
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<td>4/26</td>
<td>Group 4 - Discussion</td>
<td>Group 4</td>
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<td>5/3*</td>
<td>Discussion</td>
<td>Part 2, Group 5</td>
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<td>5/10</td>
<td>Discussion, NOMA, Secularism, review</td>
<td>G, Z</td>
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<tr>
<td>5/15*</td>
<td>TBA</td>
<td>FINAL EXAM/Super Term Paper</td>
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* Important dates to remember – test or assignment due! ! !

B= Browne, C= Carroll, Co Coyne, G= Gould, H = Handouts from instructor- see Blackboard, M= Miller, Z= Zuckerman

**HAVE A GREAT SUMMER! ! !**