Honors Integrated Science - Seeing Science in Appalachia

HON 216 - Fall 2014
CRN 14742
6 Credit Hours
MWF 9:05-11:00 NSB 4112

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Course Description
HON 216 Honors Integrated Science: SEEing Science in Appalachia. (6) A.
Prerequisite: Admission to the Honors Program or departmental approval and
ENG 102 or 105(B) or HON 102. An integrated laboratory course that
investigates fundamental concepts of the life and physical sciences using
aspects of the natural history of Kentucky as a basis for exploration. Field and
laboratory work will involve students in all facets of investigative science and
will include a service component benefitting the surrounding community.
Additional out-of-class field work and field trips will be required. Honors Core.
Gen Ed. E-4A/B. HON 304 Special

Readings
Readings will be provided by the instructor via Blackboard.

Integration with Model
HON 216 contains a service learning component. As part of this course, our
honors programs students will work with teachers and 7th grade students at
Model Laboratory School

Class Assignments
A variety of assignments will be given over the course including (but not limited
to) readings, student presentations, writing and class discussions.

Grades
A 90-100%
B 80-89%
C 70-79%
D 60-69%
F <60%

Tests – 2 @ 20% each
Classwork/Assignments/Projects – 30%
Final Exam - 30%
Missed tests and exams cannot be made up without a valid excuse (e.g. medical or family emergency). If the excuse is acceptable, the make-up must be done within one week.

Graded material will be returned promptly allowing students to monitor their own progress.
Blackboard

Course readings and assignment guidelines will be made available via Blackboard (www.learn.eku.edu). You must print these out prior to coming to class.

Midterm Grades

Midterm grades will be posted by Oct. 10th. November 7th is the last day to withdraw from class.

Email

All communication outside of class will be done using official EKU email addresses. Students are expected to monitor their university email account at regular intervals. There is a tool in Blackboard for emailing students in class.

University Policies

Refer to the University Handbook for Students for policies.

Disability Statement

A student with a “disability” may be an individual with a physical or mental impairment that substantially limits one or more major life activities such as learning, seeing or hearing. Additionally, pregnancy or a related medical condition that causes a similar substantial limitation may also be considered a disability under the ADA. If you are registered with the Office of Services for Individuals with Disabilities, please obtain your accommodation letters from the OSID and present them to the course instructor to discuss any academic accommodations you need. If you believe you need accommodation and are not registered with the OSID, please contact the office in the Whitlock Building Room 361 by email at disserv@eku.edu or by telephone at (859) 622-2933. Upon individual request, this syllabus can be made available in an alternative format.

Academic Integrity

Students are advised that EKU’s Academic Integrity policy will be strictly enforced in this course. The Academic Integrity policy is available at www.academicintegrity.eku.edu. Questions regarding this policy may be directed to the Office of Academic Integrity.

General Education Goals for Element 4 (Natural Sciences) Courses

After completing the General Education Program at EKU, students will be able to:

1. Use appropriate methods of critical thinking and quantitative reasoning to examine issues and to identify solutions. (GE Goal two)
2. Analyze the fundamental natural processes of the world and the interactions of humans and their environment. (GE Goal five)
3. Distinguish the methods that underlie the search for knowledge in the arts, humanities, natural sciences, history, and social and behavioral sciences. (GE Goal seven)
4. Integrate knowledge that will deepen their understanding of, and will inform their own choices about, issues of personal and public importance. (GE Goal eight)
Student Learning Outcomes

Students will

1. explain how science, as a way of knowing, leads to and understanding of the natural world;
2. trace transformations of energy in the natural world;
3. analyze factors that may cause bee populations to decline and propose solutions to this problem;
4. design and implement investigations examining how neonicotinoids affect insect behavior;
5. investigate and explain the chemical and biological bases for aspects of bee behavior;
6. describe factors that affect the fate of chemicals in the environment; and
7. describe transformations involved in honey and wax production.

Course Calendar

A course calendar will be available on Blackboard.

Important Dates

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<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Monday, Sept 1st</td>
<td>Labor Day (no class)</td>
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<td>Friday, Sept. 19th</td>
<td>Assurance of Learning Day (no class)</td>
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<tr>
<td>Monday, Oct 13th</td>
<td>Fall Break (no class)</td>
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<tr>
<td>Wednesday, Oct 1st</td>
<td><strong>Exam I (tentative)</strong></td>
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<td>Friday, Nov. 14th</td>
<td><strong>Exam II (tentative)</strong></td>
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<td>Wednesday, Nov. 26th</td>
<td>Thanksgiving Break (no class)</td>
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<td>Friday, Nov. 28th</td>
<td>Thanksgiving Break (no class)</td>
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<tr>
<td>Wed., Dec. 10</td>
<td>Final Exam (8 am - 10 am)</td>
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