COURSE TITLE: Ecology
COURSE NUMBER: PCB 4043C/PCB4043L

COURSE DESCRIPTION (with prerequisites):
PCB 4043 is an introduction to living systems at the population and community/ecosystem levels. It includes energy flow and nutrient cycling in ecosystems; community organization, development and classification; population structure and dynamics. Labs may include field work, lab analysis and use of interactive software. This course addresses specific Sunshine State Standards, subject matter competencies and pedagogy pertinent to the discipline and required for teacher certification. 4 semester hours credit

NAME(S) OF INSTRUCTORS: Dr. David Hilton

EFFECTIVE ACADEMIC YEAR: 2011-12

REQUIRED TEXTBOOKS AND INSTRUCTIONAL SUPPLIES:

GRADING POLICY:
The standing of a student in each course is expressed by one of the following letters and corresponding grading system:
A – 90 – 100
B – 80 – 89
C – 70 – 79
D – 60 – 69
F – 59 or less
The Chipola Catalog provides policies and procedures regarding the grading system. A student’s Grade Point Average is derived from the grading system/quality point scale.

ATTENDANCE AND WITHDRAWAL POLICIES:
Chipola College expects regular attendance of all students. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the discretion of the instructor. Chipola policy allows each instructor to specify in the Instructor First Day Handout whether or not an absence is excusable and what affect the absence or tardy may have on the grade.
A student is allowed to repeat a course a maximum of three (3) times. **On the third attempt a student (1) must bear the full cost of instruction (unless waived by Student Services), (2) cannot withdraw, and (3) must receive a grade.**

**MAKE-UP POLICY:**
Chipola allows each instructor to specify in the Instructor First Day Handout the makeup policy.

**ACADEMIC HONOR CODE POLICY:**
Students are expected to uphold the Academic Honor Code. Chipola College’s Honor Code is based on the premise that each student has the responsibility to (1) uphold the highest standards of academic honesty in his/her own work; (2) refuse to tolerate academic dishonesty in the college community; and (3) foster a high sense of honor and social responsibility on the part of students. Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

**STUDENTS WITH DISABILITIES POLICY:**
Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola’s goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment. Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

**LIBRARY AND ON-LINE REFERENCE MATERIALS:**
The library is a comprehensive learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. On-line catalogs, e-books and electronic databases can be accessed by using the LINCCWeb icon on the Chipola Library website at [www.chipola.edu/library](http://www.chipola.edu/library). If you have questions about database usage consult the “How to Use the Chipola Databases” on the Library website or call the Library at 850/718-2274 during regular hours. Library hours are posted each semester at the building entrance and on the Library website. See your Instructor First Day Handout for individual instructor recommendations and resources.

**TECHNOLOGY RESOURCES:**
The Information Technology Center, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance and on the Library website. The ACE Lab, located in Building L, is available for tutoring and is equipped with computer workstations. Lab hours are posted each semester at the room entrance. The college’s learning management system is **Desire 2 Learn** (d2l). Classes become available on d2l on the first day of the semester. It is the student’s responsibility to log onto the d2l system the first day of class to establish the first day of attendance and to check announcements. For further information, contact your instructor or the Director of Online Learning.
ELECTRONIC DEVICE USAGE:
All electronic devices such as cell phones, beepers, pagers, and related devices are to be silenced prior to entering classrooms and/or laboratories to avoid disruption. Should it become necessary for a student to leave his/her "device" on to send or receive an emergency call and/or text message, the student must inform the instructor prior to class. If the student finds it necessary to send and/or receive an emergency call and/or text message during class/lab time, he/she is instructed to take all books and belongings and step outside the classroom to deal with the situation. To minimize classroom disruption and the distraction to classmates, the student will not be permitted to reenter the classroom during that class period. Any time a test is being administered, all such devices must be turned off and put away. If a device is seen or heard during an exam, a score of zero will be given for that exam. Initial and repeated infractions may result in disciplinary action.

DISCIPLINE SPECIFIC COMPETENCIES / LEARNING OUTCOMES:

<table>
<thead>
<tr>
<th>Major learning outcomes</th>
<th>Florida Educator Accomplished Practices</th>
<th>Florida Competencies and Skills</th>
<th>Content Standards</th>
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</thead>
<tbody>
<tr>
<td>1. Describe the interactions among ecosystem components.</td>
<td>8, 11</td>
<td>1.1, 1.2, 1.4, 1.8, 1.9, 1.10, 1.11, 1.12, 1.13, 1.14, 1.15, 1.18, 4.1, 4.2, 4.5, 4.12, 4.16, 5.2, 8.2, 8.4, 8.5, 8.7, 8.8, 9.1, 9.2, 9.3, 9.4</td>
<td>1.1, 1.2, 1.3, 1.4.1, 1.4.2, 1.4.4, 1.4.5, 1.4.6, 1.4.7, 1.4.8, 1.8, 1.8, 2.1, 2.2, 2.4.1, 2.4.2, 2.6.1, 2.6.2, 2.7.4, 3.3, 4.1, 4.2, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.8, 4.3.9, 5.1, 5.2, 5.3, 5.4, 5.5, 6.8, 6.12, 6.17.3, 7.12, 9.1, 9.2, 9.6, 9.8, 9.13, 9.14, 9.15, 9.16, 9.17, 9.18, 9.19, 9.2, 9.21, 9.22, 9.23, 10.1, 10.2, 10.3, 10.4, 10.5, 10.8, 10.9, 11.3</td>
</tr>
<tr>
<td>2. List and explain interactions within populations.</td>
<td>8, 11</td>
<td>1.11, 1.12, 1.14, 1.15, 1.18, 5.2, 8.5, 8.6, 8.7, 9.3</td>
<td>1.1, 1.2, 1.4.1, 1.4.3, 1.4.4, 1.4.5, 1.4.6, 1.6, 1.8, 2.2, 2.4.1, 4.1, 4.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.7, 4.3.8, 4.3.9, 5.1, 5.2, 5.3, 5.4, 5.5, 6.1, 6.2, 6.4, 6.5, 6.17.1, 6.17.2, 6.17.3, 6.17.4, 6.18, 8.20, 8.21, 8.24, 8.25, 10.1, 10.3, 10.7, 12.2, 12.3</td>
</tr>
<tr>
<td>3. Show the importance of ecosystems to the human population.</td>
<td>8, 11</td>
<td>1.1, 1.2, 1.11, 1.12, 1.14, 1.15, 1.18, 3.2, 8.3, 8.9, 8.10, 8.11, 8.12, 9.3</td>
<td>1.1, 1.2, 1.4.2, 1.4.4, 1.4.5, 1.4.6, 1.4.7, 1.5, 1.6, 1.7, 1.8, 2.2, 2.4.2, 2.5, 2.6.1, 2.6.2, 3.4, 3.6, 3.7, 4.1, 4.2, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.7, 4.3.8, 4.3.9, 4.4.1, 4.4.2, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 6.8, 6.17.2, 6.17.3, 9.1, 9.2, 9.13, 9.14, 9.15, 9.16, 9.17, 9.18, 9.19, 9.20, 9.21, 9.22, 9.23, 10.1, 10.2, 10.3, 10.4, 10.5, 10.8, 10.9, 10.10, 11.3</td>
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</table>
**MEANS OF ACCOMPLISHING STUDENT LEARNING OUTCOMES:**

The primary method of instruction in the classroom is the lecture based on the textbook, supplemented by other text books, reference books, and instructor’s experience.

The student will be involved in oral communication through responses to questions. Discussions are encouraged and they may arise by a question to the class or by questions from students.

The instruction is further supplemented with board illustrations, charts, slides, filmstrips, films, computer software, and demonstrations.

**ASSIGNMENT AND/OR COURSE OUTLINE**

See your Instructor First Day Handout for individual instructor assignment schedule.