COURSE TITLE: Introduction to Biological Sciences     COURSE NUMBER: BSC 1005

COURSE DESCRIPTION (with prerequisites):
This is a basic general education course to give the student an understanding of the major biological concepts of anatomy, reproduction, development, genetics, ecology and evolution in plant, animal and human life. Prerequisite: Passing scores on the reading portion of the PERT or other state approved entrance exam, or a grade of “C” or higher in REA 0017. Students preparing to enter health related fields are strongly encouraged to enroll in BSC 1088, in preparation for future health related science courses. This course cannot be used to satisfy degree requirements for students who already have credit in BSC 2010 and/or BSC 2011.  3 semester hours credit.

NAME(S) OF INSTRUCTORS:
Dr. Santine Cuccio, Denise Freeman, Dr. David Hilton, Terolyn Lay, Allan Tidwell

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:**
Explore the History, Nature, Methods, and Limits of Science

NS-1 Use methods of scientific inquiry.
NS-2 Apply scientific principles.
NS-3 Identify differences among scientific ideas related to the history or nature of science.
NS-4 Examine issues and problems facing modern science, such as ethics, values, and public policies.
NS-5 Identify relationships between science and technology.

**LINKING COURSE-LEVEL STUDENT LEARNING OUTCOMES WITH DISCIPLINE-SPECIFIC COMPETENCIES, ASSESSMENT METHODS, AND ARTIFACTS**

<table>
<thead>
<tr>
<th>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR BSC 1005</th>
<th>DISCIPLINE-SPECIFIC GENERAL EDUCATION COMPETENCIES</th>
<th>ASSESSMENT METHODS FOR COURSE LEVEL STUDENT LEARNING OUTCOMES</th>
<th>ARTIFACTS FOR AA PROGRAM ASSESSMENT</th>
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<tbody>
<tr>
<td>• Describe the structure and function of cell organelles</td>
<td>NS-1, NS-2, NS-3, NS-5, T-2, T-3</td>
<td>H, T, Q, EX</td>
<td>Activity related to exponential growth.</td>
</tr>
</tbody>
</table>
| • Explain the cell cycle | NS-1, NS-2, NS-3, NS-5, T-2, T-3 | H, T, Q, EX | }
- Identify DNA structure and function
- Show the relationship between evolution and the diversity of life
- Describe plant structure and function
- Describe basic human anatomy and physiology
- List the ecological impacts of population growth on ecosystem dynamics

| NS-1, NS-2, NS-3, NS-4, NS-5, T-2, T-3 | H, T, Q, EX |
| NS-1, NS-2, NS-3, NS-4, NS-5, SS-2, SS-3, SS-5, T-2, T-3 | H, T, Q, EX |
| NS-1, NS-2, NS-4, NS-5, T-2, T-3 | H, T, Q, EX |
| NS-1, NS-2, NS-3, NS-4, NS-5, SS-2, SS-3, SS-5, T-2, T-3 | H, T, Q, EX |
| NS-1, NS-2, NS-3, NS-4, NS-5, M-1, M-4, M-5, SS-2, SS-3, SS-5, T-2, T-3 | H, T, Q, EX |

**Assessment Codes**
- T = Tests
- Pre/Post = Pre- and Post-Tests
- OT = Objective Tests
- UT = Unit Tests
- Q = Quizzes
- F = Final Examination
- CF = Cumulative Final
- EX = Departmental Exam
- SE = Nat’l or State Standardized Exam
- RPT = Report/Presentation
- SP = Skills Performance
- SD = Skills Demonstration
- W = Writing Assignments
- E = Essays
- DE = Documented Essays
- RP = Research papers
- J = Jury
- R = Recital
- Proj. = Projects
- Exp. = Experiments
- Cap. Proj. = Capstone Project
- Cap. Course = Capstone Course
- Prac. = Practicum
- Intern. = Internship
- H = Homework
- PS = Problem Solving
- DB = Discussion Board
- BO = Behavioral Observation
- Clin. = Clinicals
- CS = Case Study
- CP = Case Plan
- Port. = Portfolio
- Obs. = Teacher Observation
- Sk. Check = Skills Check-off
- Curriculum Frameworks
- JP = Judged
- Performance/Exhibition

**MEANS OF ACCOMPLISHING STUDENT LEARNING OUTCOMES:**
Lecture is the primary method of instruction. Students are expected to be attentive and are encouraged to ask questions. Lectures may be primarily from the textbook, and may be enhanced by the board illustrations, concept maps, power point presentations and overhead transparencies. Other teaching strategies may include: use of inquiry, science activities, demonstrations, problem solving, critical thinking, cooperative groups, process skills (describing relationships between variables, acquiring and processing your own data, analyzing investigations, constructing hypotheses, defining variables operationally, designing investigations, experimenting), class discussions, large and/or
small group projects, oral presentations, read and report on subject matter articles from referred journals, reflective papers.

ASSIGNMENT AND/OR COURSE OUTLINE

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