COURSE TITLE: Science Through Tutoring

COURSE NUMBER: SCE 2905

COURSE DESCRIPTION (with prerequisites):
The goals of this course are to teach: the general science skills needed for successfully tutoring in an academic setting; to teach general methods of tutoring; and the tutoring techniques needed in specific courses. Teacher-tutor seminars, teacher-tutor conferences, and formal instruction will supplement the extensive tutoring experiences. Prerequisite: Eligibility for BSC 2010, CHM 1045 or PHY 1054 or consent of the department. The number of hours of credit varies from 1 to 3 hours depending upon the number of hours tutoring; 1 credit, 24 hours; 2 credits, 48 hours; and 3 credits, 72 hours.

NAME(S) OF INSTRUCTORS:
Santine Cuccio, Ph.D.

EFFECTIVE ACADEMIC YEAR:
2012-13

REQUIRED TEXTBOOKS AND INSTRUCTIONAL SUPPLIES:
Handouts provided in class

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. 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.

SCE 2905 is not a General Education core course and therefore a student in SCE 2905 will demonstrate selected learning outcomes from this list.

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

<table>
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<tr>
<th>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR 2905</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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<tr>
<td>• Identify appropriate communication techniques for use in science tutoring sessions</td>
<td>N-1, N-2</td>
<td>SP</td>
<td>No artifact will be submitted for program assessment as SCE 2905 is not a course with general education credit.</td>
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<td>• Demonstrate knowledge of general science subject matter at a level appropriate for the level of coursework completed</td>
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Demonstrate appropriate ethics in science tutoring sessions
Identify questioning strategies applicable to science tutoring sessions
Recognize various learning styles
Identify record-keeping strategies for maintaining historical logs of tutoring sessions

**Assessment Codes**

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<th>T</th>
<th>Tests</th>
<th>Pre/Post</th>
<th>Pre- and Post-Tests</th>
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<td>Unit Tests</td>
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<td>Departmental Exam</td>
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<td>SE</td>
<td>Nat'l or State Standardized Exam</td>
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**Means of accomplishing student learning outcomes:**
Teacher centered: Instructor will demonstrate specific problem-solving techniques used in Chipola Science classes.

Seminars/conferences: Students and instructor(s) will meet to discuss assigned readings.

Role modeling: Students and instructors actively demonstrate various tutoring techniques.

Student Centered: Student will work as tutors in the lab to provide individualized help, and will keep both a time sheet recording hours worked and a log of the number of students tutored and the time spent tutoring each student.

Office Hours: The instructor will be available during office hours for individual assistance. The instructor’s schedule can be found posted on their office door and/or via their individual web site.

**Assignment and/or course outline**

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