

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Biology</u>						
COURSE RUBRIC AND NUMBER	<u>BIOL 2389</u>						
COURSE TITLE	<u>Research Techniques in Biology</u>						
COURSE CREDIT HOURS	<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 10px;">3</td> <td style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 10px;">1</td> <td style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 10px;">6</td> </tr> <tr> <td style="text-align: center; padding: 0 10px;">Credits</td> <td style="text-align: center; padding: 0 10px;">Lec</td> <td style="text-align: center; padding: 0 10px;">Lab</td> </tr> </table>	3	1	6	Credits	Lec	Lab
3	1	6					
Credits	Lec	Lab					

I. Catalog Description

Provides practical training and experiences in laboratory and field investigations while presenting a research approach to the principles of biology with emphasis on scientific methodologies and techniques. Students work under the supervision of a faculty member after a research project of mutual interest is selected. Students design and perform laboratory or field investigations and present and defend the results of the project. **Requires Instructor's Approval. Prerequisites: BIOL 1306 and 1106 or CHEM 1311 and CHEM 1111. (1:6). Lab fee.**

II. Course Objectives

LECTURE AND LABORATORY

Upon satisfactory completion of this course, the student will be able to:

- A. Select a specific research project with the approval of a faculty member.
- B. Perform a literature survey on the selected topic using appropriate scientific publications and resources on the Internet.
- C. Design appropriate scientific studies to include proper protocols using experimental and/or descriptive techniques.
- D. Perform the investigations under the supervision of a faculty using techniques and instrumentation available at El Paso Community College and/or selected work sites.
- E. Organize determine the validity of the data using tables, graphs and charts, and statistical analysis where appropriate.
- F. Draw conclusions from the results of the study and make recommendations for further research if needed.
- G. Present progress reports and a final report to a group of science faculty and students during scheduled seminars.

III. Evaluation

The instructor may give exams at his/her discretion, but emphasis will be placed on work performance, the quality of the research results and evaluation, and the oral and written presentation of the project

Grading Scale:

90-100	=	A
80-89	=	B
70-79	=	C
60-69	=	D
Below 60	=	F

IV. Disability Statement (American with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024)

V. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.