

Course Number: BIOL 695

Course Title: Special Projects in Biology
Science, Math, Technology Division
3 units

Hours by Arrangement

Course Prerequisites: Eligibility for ENGL 846.

Course Description: Carefully crafted and well-supervised independent studies and field work.

Philosophy: Carefully crafted and well-supervised laboratory studies and field work can be a powerful learning experience because they offer students the opportunity to work with a faculty member on a program of special reading, research, or field work beyond coursework included in the Skyline College Catalog. Students who are considering approaching a faculty member about participating in an independent study are offered the following advice:

- It is important to remember that no faculty member is under any obligation to do so – the decision to take on this added responsibility is entirely up to the individual. Students who decide to approach a faculty member about sponsoring an independent study should realize that they are asking someone to take on a commitment of additional time (for which he or she will not be compensated).
- Before registering for an independent study, students should be sure that they and the faculty member share a set of common expectations about faculty/student contact (its periodicity and length) and feedback (its depth and timeliness).

Objectives:

- a. This course provides students with the opportunity to further their knowledge in a particular field of study or on a particular topic via individualized instruction.
- b. The goal of this program is to increase the opportunities for Skyline College students by providing a research opportunity under the supervision of a faculty mentor.

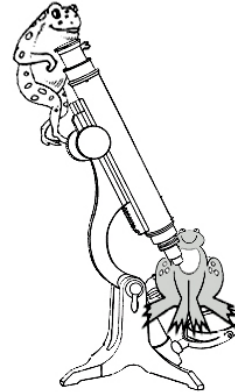
Instructor

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First draft due

Enroll in BIOL 695

Proposed lab work...in your lab notebook

- Title, authors
 - Hypothesis/purpose. One sentence
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The following in Word.doc

Abstract. 250 words. No graphics, references, or schema are allowed in abstracts.

1. **Hypothesis**/purpose/objective of research is clearly stated
 2. A statement of the experimental **methods/materials** used
 3. **Results** provided in summary form (even if preliminary)
 4. Summary and **conclusions**
 5. Scientific merit and future directions of the research are explained
 6. Well-developed writing skills are evident
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Lab work proposal/supplies

Do the lab work

Background. Bullet list, with lit citations.

-Define or identify the general topic/issue

- Point out gaps in research or a single problem or new perspective of immediate interest.
 - Summarize major contributions of significant studies and articles to the body of knowledge, maintaining the focus established in the introduction.
 - Conclude by providing some insight into the relationship between the central topic of the literature review and your work.
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Literature cited. 4-5 journal articles cited in background and/or discussion.

Materials & methods. Flow chart or list of methods includes materials

Results. Two or three sentences directing reader to figures/tables.

Figures: Tables, graphs— Each must have a number, title, & legend.

In Excel.xls

Discussion & conclusions. Bullet list. Include proposed future studies.

2-3 hi rez pretty photos of... use the copy stand and my camera.

Not pix of everything!

Acknowledgements.

Poster. See template. This is in Powerpoint (ppt)

Everything done
