

# Academic Cooperative

## BIOL-2289

Spring 2019 Section 001 CRN-21729 2 Credits 01/14/2019 to 05/09/2019 Modified 01/16/2019

### Meeting Times

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#### Lecture and field work

Saturday, 1:00 PM to 4:00 PM

33% of the time (Tuesdays) you will be meeting with me to discuss your project, talk about your data, and how to write a scientific paper.

67% of the time you will be working with biologists at Lake Somerville or Long Star Ranch to conduct your research project.

### Contact Information

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#### Professor: Dr. Kelly C Kissane

Email: [kelly.kissane@blinn.edu](mailto:kelly.kissane@blinn.edu)

Office: 979-830-4202

Email is the best way to reach me.

#### Office Hours

Monday, Wednesday, 11:00 AM to 12:00 AM, Classroom building office 6

Tuesday, Thursday, 4:00 PM to 5:00 PM, Classroom Building office 6

### Description

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1 lecture hour and 2 lab hours per week; 48 total contact hours. Credit: 2 semester hours.

A student-centered instructional program designed to integrate on-campus study with practical hands-on experience in the biological/life sciences under supervision of faculty mentor. This course may be repeated once for credit.

#### Requisites

**Prerequisite:** Eight hours of college-level biology courses with a GPA of 3.0 or higher and the approval of the instructor or 4 hours of college biology with a grade of "A" while taking the second 4 hours of college biology concurrently.

### Core Curriculum Statement

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This course is not a core curriculum course.

### Outcomes

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1. Demonstrate the ability to carry out independent research using appropriate methodologies.

2. Communicate results in a scientific manner.

## Materials

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A notebook detailing your data and other observations on your project.

## Course Requirements

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All sections of this course regardless of location or modality will include:

1. A laboratory notebook or portfolio will be assembled documenting the progress and results of the student's investigation.
2. A written report detailing the results of the student's investigation. This report will be in the format of a traditional scientific paper consisting of introduction, materials and methods, results and discussion sections.

## Evaluation

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The following are required components of a student's final grade.

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| 1. A portfolio or laboratory notebook                      | 60% |
| 2. A final paper written in scientific writing format      | 20% |
| 3. A poster presentation of the student's research project | 20% |

## Blinn College Policies

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All policies, guidelines, and procedures in the [Blinn College Catalog \(http://catalog.blinn.edu/\)](http://catalog.blinn.edu/), [Blinn College Board Policies \(http://pol.tasb.org/Home/Index/1204\)](http://pol.tasb.org/Home/Index/1204), and the [Blinn College Administrative Regulations \(https://www.blinn.edu/administrative-regulations/\)](https://www.blinn.edu/administrative-regulations/) are applicable to this course.

[Specific information on civility, attendance, add/drop, scholastic integrity, students with disabilities, final grade appeal, alternative retailers, campus carry and proctoring arrangements and cost. \(http://www.blinn.edu/syllabus-policies/\)](http://www.blinn.edu/syllabus-policies/)

Notice of any action taken under these protocol and procedures, by Blinn College or its employees, may be delivered by hand, through the U.S. Postal Service, or electronically to the student's Blinn Buc e-mail account. Notice shall be deemed received upon actual receipt, on deposit in the U.S. Mail, or upon entering the information processing system used by Blinn College for Blinn Buc e-mail accounts, whichever first occurs.

## Course Policies

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### Problem Resolution

If you have a complaint about your class, you should first request a conference with your instructor to try and resolve the problems or issues. If the problems or issues cannot be resolved at the instructor level, you should request a conference with the Science Department Head.

STEM Department Head: Steve Wood

Phone: 979-830-4522

email: [steve.wood@blinn.edu](mailto:steve.wood@blinn.edu)

### Laboratory Safety

Students will be provided with laboratory safety training during the first week of class. Students are expected to follow all safety rules including rules related to proper lab attire. **Lab coats, closed toe shoes and long pants are required in the laboratory.** Students that fail to follow this rule, will be required to leave the lab and will be assigned an unexcused absence for the class day. Absolutely no food or drink will be allowed in the lab room.

## Attendance

For classes that meet 1 times a week during a long semester (Fall/Spring) one absences counts as one week's absence. Students accumulating more than two weeks worth of unexcused absences (2 unexcused absences) will be administratively dropped from the class. If dropped from the course, you will not be allowed to return.

Only the four excuses accepted by Blinn College will be accepted for an excused absence. All other excuses will be unexcused. Any student with four unexcused absences will be dropped from the course as per Blinn College policy.

## Tardiness

**Excessive Tardiness:** The only official clock is the classroom clock . You must be on time according to the classroom clock. Any student who is arrives late will be issued a tardy. Students who are habitually late disrupt the classroom, thus this behavior is considered a violation of the incivility clause as stated in the Blinn Student Handbook.

If you arrive late causing an interruption to the lecture or lab, you will be given a warning the first three times. The 4th time will result in you being removed from the classroom as stated in the incivility clause. You must meet with me to discuss your tardiness before you can be allowed back in the classroom. All absences accrued until you meet with me are considered unexcused.

## Scantrons

Scantrons and pencils are required for all lecture exams. Only Advantage #28980 scantron (the wide scantron) will work in our department.

*A student who does not bring a scantron or a pencil to the exam will not be allowed to take the exam. They may go over to the bookstore to purchase one, but will not be given extra time on the exam.*

## Make-up Exams

**No make-up exams, quizzes or homework will be given!**

**Exceptions** to the make-up exam policy will follow the Blinn Attendance Policy for excused absences: religious holidays, military service, school approved absences, dual credit students representing their high school. The student must make arrangements with me to take their exam on the Friday morning following their absence between 8 am - 10 am. Students who do not take their exam as scheduled will receive a zero for that exam or lab practical.

Students must have official documentation of school activity, military service or religious holiday before they will be allowed this make-up option.

## Late Work

No late work will be accepted, unless the student has one of the four excuses accepted by Blinn College.

## Schedule

Week One	Meeting Details	LEC	LAB	Weekly minutes
Saturday, Jan. 19, 2019	Meet with professor to discuss project and class requirements	50		170
Saturday, January 19, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Two		LEC	LAB	Weekly minutes

Saturday, Jan. 26, 2019	Meet with professor to discuss project.	50		170
Saturday, Jan. 26, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Three		LEC	LAB	Weekly minutes
Saturday, Feb. 2, 2019	Meet with professor to discuss project and data collected	50		170
Saturday, Feb. 2, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Four		LEC	LAB	Weekly minutes
Saturday, Feb. 9, 2019	Meet with professor to discuss project and data collected	50		170
Saturday, Feb. 9, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Five		LEC	LAB	Weekly minutes
Saturday, Feb. 16, 2019	Meet with professor to discuss project and data collected	50		170
Saturday, Feb. 16, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Six		LEC	LAB	Weekly minutes
Saturday, Feb. 23, 2019	Meet with professor to discuss project and data collected	50		170
Saturday, Feb. 23, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Seven		LEC	LAB	Weekly minutes
Saturday, Mar. 2, 2019	Meet with professor to discuss project and data collected	50		170
Saturday, Mar. 2, 2019	Work with wildlife biologists at Long Star Ranch.		120	
Week Eight		LEC	LAB	Weekly minutes

<b>SPRING BREAK</b>	<b>SATURDAY, MAR 9 - FRIDAY, MAR 15</b>	<b>50</b>	<b>120</b>	<b>3</b>
<b>Week Nine</b>		<b>LEC</b>	<b>LAB</b>	<b>Weekly minutes</b>
<b>Saturday, Mar. 16, 2019</b>	Meet with professor to discuss data analysis.	50		<b>170</b>
<b>Saturday, Mar. 16, 2019</b>	Perform data analysis and draw conclusions.		120	
<b>Week Ten</b>		<b>LEC</b>	<b>LAB</b>	<b>Weekly minutes</b>
<b>Saturday, Mar. 23, 2019</b>	Discuss with professor on your conclusions. How to create a poster presentation of your research project.	50		<b>170</b>
<b>Saturday, Mar. 23, 2019</b>	Begin rough draft of your research project poster.		120	
<b>Week Eleven</b>		<b>LEC</b>	<b>LAB</b>	<b>Weekly minutes</b>
<b>Saturday, Mar. 30, 2019</b>	Scientific paper: how to write the introduction and material and methods section How to create a poster presentation of your research project.	50		<b>3</b>
<b>Saturday, Mar. 30, 2019</b>	Creating a poster presentation of your research project.		120	
<b>Week Twelve</b>		<b>LEC</b>	<b>LAB</b>	<b>Weekly minutes</b>
<b>Saturday, Apr. 6, 2019</b>	Scientific paper: How to write your writing your results section. How to create a poster presentation of your research project.	50		<b>170</b>
<b>Saturday, Apr. 6, 2019</b>	Creating a poster presentation of your research project.		120	
<b>Week Thirteen</b>		<b>LEC</b>	<b>LAB</b>	<b>Weekly minutes</b>
<b>Saturday, Apr. 13, 2019</b>	Scientific paper: how to write the conclusions/discussion section and the abstract.	50		<b>170</b>
<b>Saturday, Apr. 13, 2019</b>	Poster presentation of your research project due.		120	

Week Fourteen		LEC	LAB	Weekly minutes
Thursday, Apr. 18, 2019	Poster Presentation of your research project at Blinn-Bryan's Student Research Conference. If you can attend the conference, please do so you can answer questions visitors may have about your project or the biology 2289 course.			
Saturday, Apr. 20, 2019	Rough draft of scientific paper due.	50		170
Saturday, Apr. 20, 2019	Review of your scientific paper and revisions.		120	
Week Fifteen		LEC	LAB	Weekly minutes
Friday, April 26, 2019	Last day to drop with a grade of Q			
Saturday, Apr. 27, 2019	Final Discussion with professor, further review of your scientific paper.	50		170
Saturday, Apr. 27, 2019	Final Discussion with professor, further review of your scientific paper.		120	
Week Sixteen - Finals Week		LEC	LAB	Weekly minutes
Saturday, May 4, 2019	Final paper due/Final Presentation	50	120	170
	Total Contact Hours			48