

# BSPM102: Insects, Science and Society

## Summer Session

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**Office hours:** Every day after class. If you need to see me outside of office hours feel free stop by my office at your convenience or make an appointment and I will do my best to make myself available.

**Text:** A packet containing handouts/outlines is **REQUIRED** and available at the Bookstore in the Lory Student Center (located in the lower level of the Lory Student Center). **These are outlines of topics expected to be covered but are not complete. Attendance at lecture will be essential to know material for this course. Exams are based on material covered in lectures.**

Two recommended books (both heavily used in preparation and reference for this course) are listed below. Review of these books can greatly improve your understanding of much of the material, but they are NOT required reading material for this course. **Multiple copies of the following books are kept on reserve at the Morgan library:**

***Bugs Rule! An Introduction to the World of Insects.*** W. Cranshaw and R. Redek. 2013. Princeton University Press.

This book was specifically designed and written as a companion text for this course. It is very easy to read and full of great information, pictures, and graphics to help you further understand the topics presented in class.

***Life on a Little Known Planet.*** H.E. Evans. 1993. Lyons and Burford, Pub., New York, NY.

A good introduction to the world of living insects. Full of well-written, fascinating stories of common insects and a healthy dose of philosophy.

Throughout this summer session I may ask you to read insect fact sheets and other extension publications (many are referenced in the notes packet). All of these will be linked within Canvas or you can find them by following the links below:

The Insect Information Website:

<http://bspm.agsci.colostate.edu/outreach-button/insect-information/>

Colorado State University Extension Insect Fact Sheets:

<http://www.ext.colostate.edu/pubs/pubs.html#insects>

## Contacting me:

The best way to get in contact with me is to either speak with me right before/after lecture or by email. **If you email, make sure that you put “Insects, Science and Society” in the subject line of your email.** Because of the number of emails I receive each day, keeping track of our course-related email is much easier if you identify this in the subject line. **Please include your full name in each email so that I can respond to you.**

Also, please note that the university’s spam filter has been known to reject email from sources such as Yahoo! or .msn accounts. If I don’t respond please speak with me to see if this is what has happened, or use your CSU account to send the email.

## Contacting You:

### MAKE SURE YOU REGULARLY CHECK YOUR OFFICIAL UNIVERSITY EMAIL

Throughout the summer I may need to contact you individually or in a group email to the entire class. This is only possible if the university has your correct email address on file. You can set your official email address by:

- 1) Log into RamWeb (<https://ramweb.colostate.edu/index.aspx>)
- 2) Under the Record tab select the “change my email address” link and follow the instructions.

## This course will adhere to the Academic Integrity Policy {Section 1.6} of the Colorado State University General Catalog and the Student Conduct Code.

- **Please** refer to the course cheating and plagiarism policy found on the Canvas homepage.
- Student Conduct Code: <http://www.conflictresolution.colostate.edu/conduct-code.aspx#conduct>
- Colorado State University General Catalog: <http://www.catalog.colostate.edu/>

## Classroom Etiquette

- **No animals are allowed in the classroom except those defined in the CSU policy regarding SERVICE animals (see page 9 of this syllabus). No emotional support animals are allowed in class.**
- **Please** silence your cell phone during class.
- **Please** be quiet while in class. It can be difficult to hear in a large classroom and talking is rude and very disruptive to other students who are trying to listen.
- **Please** do not read newspapers, text, play games, or listen to music during class.

Disruptive students will be asked to leave and, if necessary, will be reported to their advisor.

## Exams and Projects

- Exam Dates are subject to change if unusual circumstances occur. Changes will be announced in class and through Canvas.

Exam 1: (2 hour online exam)

Exam 2: (2 hour online exam)

Exam 3: (2 hour online exam)

Exam 4: (2 hour exam taken in class – **NOT** online)

*\*\*This is the final exam. It will take the full 2 hours – prepare accordingly*

## Exam Policy

**Everyone will receive access to the online exams (and take the in-class final) on the same day and at the same time.** Exceptions are (EXTREMELY) limited.

- If you have a timing conflict; **prior arrangements must be made.**
- **Students who use alternative testing at RDS** can contact me prior to the exam to make arrangements and sign applicable paperwork.
- Students that miss an exam due to illness, family emergencies, or other **University approved excuse** may be able to make up the exam by special arrangement. **Arrangements must be made within 2 days of the missed exam.**

## **Canvas Online System (<http://info.canvas.colostate.edu/login.aspx>)**

- The course homepage can be found on the University Canvas online system and contains all of the information for outside projects, exam review sheets, and student grades. It is frequently updated with new links and should be checked on a regular basis.
- Each student is responsible for making sure they are able to access to Canvas and understand where material is located within the homepage. If you have problems contact me or check <http://info.canvas.colostate.edu/student-resources.aspx> ASAP.
- Canvas email may also be used to send out important announcements.
- Students are responsible for monitoring their exam and project grades on Canvas. If they feel there may be a discrepancy with their grade they have **1 week** from the *date the exam was given or project was to be turned in* to discuss the issue with me.

## **Your grade will be based on each of the following (total 700 points):**

### **400 points - 4 written tests (100 points each)**

- Exam 1-3 will be given online (via Canvas) and will contain multiple choice, fill in the blank, matching, true/false, picture ID, and essay questions. NOTE: the 4<sup>th</sup> exam will be given in class on the last day and will only have essay questions.

### **100 points - Arthropods or Examples of Arthropod Injury**

- Bring in 25 arthropods or examples of arthropod injury  
(Picture journal may be OK. Pictures must be Macro quality - fairly close and in focus - for points – See Matt for specific details).
- Different students may not turn in the same arthropod specimen for credit (or show me the same picture on different devices)
- Each arthropod or arthropod injury turned in is worth 4 points.
- Each sample must be of a different species.
- *Information on when and where the insects were collected must be provided to receive credit.*
- \*\*Pet shop feeder insects (i.e. crickets, mealworms) will NOT be accepted for credit.
- \*\*Annelids (i.e. earthworms or night crawlers), slugs and other non-arthropods of any kind will NOT be accepted for credit.

**100 points - Writing Assignments (mostly out of class)**

- 10 writing assignments will be given during the semester. Each assignment will be due at the beginning of the following class period. Late assignments may be turned in by no later than the 2<sup>nd</sup> class period following the assigned writing and will be only worth ½ credit.

**Grading rubric:**

Plus: Great Job! Thanks for putting in the effort. Well written and answered all or most parts of each question (8-10 points)

Check: OK. Decent writing. Missing parts of 1 or more question and/or Lacking explanation or clarification of 1 or more points if asked. (4-7 points)

Minus: Writing not legible and/or coherent and/or didn't answer multiple parts and/or didn't include explanation or clarification when asked. (0-3 points)

**100 points - Arthropod Related Projects**

- 100 points of your grade will be based on some combination of the projects listed below. They are due **as one packet**.

\*\*There will be an optional early turn in date. Complete projects (what you think is a full 100 points – do not turn in partial projects) received on or before this day will be graded and students will have until July 28 to make up missing points.

- Projects turned in late will be docked 5% of their final graded points for each day they are turned in late
- The projects are an integral part of your grade - *THEY ARE NOT EXTRA CREDIT*.
- All projects will be returned on the day of the final exam. With permission, some will be used as examples for future classes. Credit to the author/artist will be given.
- You are allowed to watch movies, visit places, etc. in groups, but reviews/critiques must be written and turned in separately. **Identical reviews will receive no credit.**

**VeriCite Instructions:** In addition to the hard copy of your project you will need to upload a copy to VeriCite (found on the BSPM102 Canvas homepage). You will receive a 0 for your project if it has not been uploaded to Canvas by the final turn-in date (May not be applicable to all projects). See me if you have questions.

**NOTE:** *You will need to upload your entire project to Canvas as a single file. The system will not allow you to upload multiple files.*

**Project Format (points deducted for not following these guidelines):**

**Each Project Should Include:**

- **Title page:** (-5 points if missing).
- **Table of contents:** (may be on title page) that lists what projects you included AND how many points you should receive for each project (-5 points if missing).
- **Reference page:** for all sources that you use (-5 points if missing).
- **Signed honor pledge:** download/print one from the Canvas homepage (-100 points if missing).

- Your project should be typed and contained in *one folder* (or stapled) and turned in as a *single packet* (please do not put individual sheets in plastic covers)
- Project grading criteria includes *content, grammar, spelling, word structure/choice, adherence to directions*.
- Only the first 100 points will be graded. **No credit** for extra work done.

Summaries, reviews, and critiques should be **typed** in **paragraph** form

- Please do not use lists or bullets (you will lose points)!

Formatting guidelines for ½ and full page summaries:

- **double-space and use 12 pt. font with 1 inch margins**
- **have at least (more is fine) 22 lines of text (for FULL PAGE summaries) or At least 11 lines of text (for ½ page summaries).** Points will be deducted for essays that are less than 22 lines (full page) or 11 lines (1/2 page).

## Project List

- From the following list you may mix and match any projects, to total **no more than 100 points**.
- Variations on projects are welcome however; they must be discussed AND cleared with me at least 4 weeks prior to submission.
- Please see me ASAP if you have questions about the projects.

**\*\*Limits apply to how many of each can be submitted and are listed below\*\***

### 1) Visit the Butterfly Pavilion

- The Butterfly Pavilion is located at 6252 West 104<sup>th</sup> in Westminster.
- Current admission price is \$11.00 (tell them you are in this class for a student discount!)
- Write a one-page summary of what you saw there. *Receipt must be attached.*
- Visit must take place during the current semester/summer.
  - NOTE: *A Receipt, an "I held Rosie" sticker, or dated photographs must be attached to prove you were there during the current semester/summer.*
- **20 points possible**

### 2) Volunteer at the Butterfly Pavilion

- limited opportunities to volunteer are available each summer. Project points will vary by opportunity. See <https://www.butterflies.org/volunteer-opportunities/> for details.

### 3) Visit the Swetsville Zoo

- The Swetsville Zoo is located at the SE corner of the I-25/Harmony intersection.
- Write a one-page critique on the anatomical correctness of the features of at least **4** sculptures that involve Arthropods (one page total – ¼ page for each critique).
- Visit must take place during the current semester/summer.
- 5 points for each sculpture critiqued.
- **20 points possible** (Maximum credit given for 4 sculptures)

### 4) Visit the May Museum of Natural History

- The May Museum is located along Highway 115 between Colorado Springs and Cañon City.
- Write a one-page summary of what you saw there.
- Visit must take place during the current semester/summer.
- **25 points possible**

## 5) Attend Entomology-related Seminars and/or meetings of the Northern Colorado Beekeepers Association (NCBA)

- Throughout the summer multiple speakers will be giving seminars on insect related issues.
  - Notice of appropriate seminars will be given in class.
  - Write a one-page summary of the seminar.
  - Each summary is worth 20 points
  - **60 points possible** (up to 3 seminars)
- NCBA Meetings announced at: <http://www.nocobees.org>

## 6) Gillette Entomology Club Activities

- Throughout the summer a variety of activities will take place with issues related to insects.
- Notice of appropriate activities will be given in class.
- Write a one-page summary of the activity you participated in.
- Each summary is worth 20 points.
- **60 points possible** (up to 3 activities)

## 7) Arthropod Related Movie/Television/Video Game/Book/Magazine/Blog Reviews

- Write a one-page critique of a movie, television show, video game or book that has an insect related theme (Write in paragraphs please. No bulleted lists).
- Each critique must contain a short summary (3-4 sentences) of the movie AND a minimum of 5 observations of correct/incorrect entomological features/references (fill in the rest of the page with these observations)
- If you are reviewing a documentary please include what arthropods showed up in the documentary and what novel information you learned (if any). Also, provide some detail on how the documentary either accurately portrayed or sensationalized the arthropods.
- Each review is worth 20 points (4 points for each observation).
- **40 points possible** (Maximum of 2 reviews)
- **\*\*NOTE\*\***: Reviews for "A Bug's Life" will NOT be accepted for this project

**\*\*Special bonus\*\***: 5 point bonus for reviewing movies that were released prior to 1980. Reviews will be worth 25 points toward the final 100 point goal. You must specify in your table of contents that the movie was made before 1980 to receive credit! **This is not extra credit.**

## 8) Insect Web Site Reviews

- Write a ½ page (at least 11 full lines of text) review on an insect related web site. Some questions you might answer are: Were arthropods correctly portrayed? Were they sensationalized? Who is the target audience for this website?
- Include the web address in your review.
- Each review should be from a different site, not a section within a single site.
- Each review is worth 5 points.
- **20 points total** (maximum of 4 web site reviews)

## 9) Poetry

- Write original insect poems/haiku/song lyrics.
- 2 pts/haiku, 5 pts/short poem (quarter page), 10 pts/half page, 20 pts/full page or more.
- NOTE: Poems in specific style do not have to "fill" full lines all the way across the page.
- Maximum of **20 pts** total

## 10) Insects in the News and Popular Culture

- Turn in examples of insects mentioned in the news, cartoons, advertising, songs, etc...
- Write a ½ page (at least 11 full lines of text) for each example that explains how the arthropod is portrayed (correct/incorrect physical features, correct/incorrect information, etc.).
- Each example is worth 5 points
- **20 points total** (maximum of 4 examples)

**\*\*Note\*\*** - Do not use the same articles for this section and the journal (if you do both).

## 11) Original Insect Comics (Both single pane or strips OK)

- To receive full credit, cartoon must include humor and illustrate some correct feature involving insect behavior or physical features.
- \*\*Plain drawings of real insects will **NOT** be accepted.
- These comics need to be completely original (not a redo of some published cartoon).
- Each comic is worth 10 points.
- **30 points total** (maximum of 3 comics)

## 12) Keep a Summer-long Journal of any Insect-related Issues/Encounters/Thoughts

- This should be made of news articles and your thoughts related to insects that you have noted during the summer (outside of class) and any personal observations of insect activity.
- Each entry must be dated and is worth 2 points.
- A minimum of 30 entries (4-5 sentences ea.) are expected to receive full credit.
- **60 points possible**

\*\*Each entry must be written in a complete sentence to receive full credit

## 13) Maintain and Report on an Insect/Arthropod "Pet" You Watch over during the Summer

- Report should include a minimum of 20 observations written in bulleted format.
- Each entry is worth 2 points.
- A minimum of 20 entries (4-5 sentences ea.) are expected to receive full credit.
- Each entry must be dated and written in a complete sentence to receive full credit
- **40 points possible**

\*\*Most arthropods that you find will be acceptable for the project (see me if you have any questions about acceptable arthropod pets).

## 14) Special Projects - Your area to shine!

- We want to see your talents!
- Group projects are encouraged
- Points negotiable **up to 100 points** depending on project.
- Project must be discussed AND cleared with me **prior** to submission.

**NOTE:** Crossword puzzles and word searches will NOT be accepted for project points

**\*\*\*\*NO EXTRA CREDIT IS OFFERED FOR THIS COURSE\*\*\*\***

I give you many chances to succeed in this class. I will not be curving grades on any exam and will not change your final grade unless there has been a grading mistake on your projects or exams. Please see me during the week of finals (or before) if you believe there has been a grading mistake.

## Grading (based on a total of 700 points – NOT PERCENTAGE BASED).

\*\*Grades are strictly point based (e.g., one needs over a 90% for an A, over 80% for a B, etc...).

**(+) and (-) grades.** Grades above but within 10 points of the break are given a (-) grade (e.g., 570 points would be a B-). Grades ranging among ten points of the highest level within a grade will get a (+) grade (e.g., 621 points would be a B+).

### An Example of How Grading Might Work:

Exam 1 - **66/100**  
Exam 2 - **80/100**  
Exam 3 - **74/100**  
Exam 4 - **90/100**

Arthropods - **76/100 (you turned in 19/25 arthropods or examples of arthropod injury)**

In-class writing - **80/100 (you turned in 8 of the 10 writing assignments)**

For projects you:

- Draw an original insect cartoon for **10** points.
- Review a movie involving insects for **20** points.
- Compose a ½ page poem about your favorite arthropod for **10** points.
- Visit the Butterfly Pavilion and write a one page review, **20** points.
- Turn in 3 examples of insects in the news or pop culture, **15** points.
- Review 3 insect related websites for **15** points.
- Do a special project for **10** points.
- **Total of 100** points.

Your grade for the summer would be based on:

Test grades:	<b>310 points (66+80+74+90)</b>
Arthropod examples:	<b>76 points</b>
In-class writing	<b>80 points</b>
Project activities:	<b>100 points</b>
<b>TOTAL</b>	<b>566 points (a B-)</b>

## BSPM102 Final Grade Calculator

- (A) 641-700 points
- (A-) 631-640 points
- (B+) 621-630 points
- (B) 571-620 points
- (B-) 561-570 points
- (C+) 551-560 points
- (C) 491-550 points
- (D) 421-490 points
- (F) 0-420 points

## Service Animals in the Classroom

BSPM102 will follow all of the policies regarding service animal access to the classroom. The full university policy may be found here: <http://policylibrary.colostate.edu/policy.aspx?id=747> .

### **POLICY STATEMENT**

The University will not discriminate against individuals with disabilities who use service dogs, nor, subject to the terms of this Policy, deny those persons access to programs, services and facilities of the University. In addition, only under certain limited conditions as stated in this policy, the University may permit an individual with a documented disability to have an Emotional Support Animal in a University residential facility. Pets are not permitted in any University building, including residence halls, except for the Veterinary Teaching Hospital and other veterinary facilities in accordance with their rules and policies, or when otherwise specially allowed with advance approval from Environmental Health Services for bona fide academic or University business purposes.

#### **Service Dogs**

Subject to some limitations, a service dog may accompany an individual with a disability throughout campus, such as in classrooms, recreational facilities and campus residences. It is strongly encouraged, but not required, that a service dog be identifiable to others through a visible signifier (e.g., vest or harness). Individuals with a disability who require a service dog in the classroom should contact Resources for Disabled Students (RDS) for assistance with accommodations.

#### **Emotional Support Animals**

An emotional support animal (ESA) is one that alleviates one or more identified symptoms or effects of a person's disability. ESAs are not permitted in university buildings, except in the rare situation where use of an ESA in University housing is approved in advance by the University upon the submission of appropriate documentation, as set forth in this policy.

ESAs are not permitted in non-residential buildings such as classrooms, laboratories, business offices, recreational facilities, dining halls, or the Lory Student Center; they are limited to the disabled individual's residence in a University residence hall, apartment, or other housing unit, and permitted only with prior approval.

## Plagiarism and Academic Integrity

We take the issue of academic integrity very seriously in this class. You are expected to do your own work and to not access notes or the web during an exam, copy from someone else's exam or to provide exam answers to another student during an exam. We reserve the right to proctor all exams and will take actions to ensure that all students are following this policy.

### **Plagiarism**

"Plagiarism includes the copying of language, structure, ideas, or thoughts of another, and representing them as one's own without proper acknowledgment. Examples include a submission of purchased research papers as one's own work; paraphrasing and/or quoting material without properly documenting the source" (CSU Policies and Guiding Principles, 2016).

Our motivation for rigorously enforcing a no-plagiarism policy is twofold: First, plagiarism is a form of theft. Taking someone else's words or ideas without attribution is stealing someone else's work. Second, copying someone else's work does not fulfill the purpose of the assignment, which is for you to develop critical thinking and analysis skills. You demonstrate this by presenting your own, new, synthesis and analysis in your writing. Simply copying or paraphrasing from source materials does not demonstrate this, however insightful the source(s) may be. Good writing generates new knowledge. This should be your goal in this class, in other courses at CSU and in your career after you leave here.

In BSPM102 all written work will be spot checked for plagiarism issues by both instructors and originality checking software such as VeriCite. If you are caught plagiarizing materials you will receive a 0 for the assignment/exam/project, and depending upon the severity of the offense, an F in the course. All examples of plagiarism or academic dishonesty and will be reported to the Office of Conflict Resolution and Student Conduct Services for additional disciplinary action as outlined in the student handbook under the heading "academic integrity/Misconduct" (<http://catalog.colostate.edu/general-catalog/policies/students-responsibilities/> ).

### **Canvas Email System Utilization**

Using the University's systems or networks for personal gain; for example, by selling access to your eID or to university systems or networks, or by performing work for profit with university resources (e.g. selling your notes or promoting a personal agenda) in a manner not authorized by the University is strictly forbidden within the CSU Code of Conduct and also CSU's policy for Acceptable Use for Computing and Networking Resources. All cases of this type of code violation will be reported to the Office of Conflict Resolution and Case Management and dealt with following CSU legal counsel guidance.