Course Number: BIO 109IN  Course Title: Natural History of the Southwest  CRN: 22444

Course Description: Study of the common plants and animals of the Southwest. Includes their identification, adaptations, behavior, and ecology. Also includes physical geography and geological principles of the region.

Information: IN is the integrated version of the course with the lecture and lab taught simultaneously.

Course Prerequisites: None  Course Co-requisites: None

Required Textbook(s):
None required

Other Course Materials:
MyPima: https://mypima.pima.edu
Class Website: http://wc.pima.edu/~bfiero/bio109/index.htm
Optional Text: A Natural History of the Sonoran Desert by the Arizona-Sonora Desert Museum

MyPima.pima.edu – MyPima is a course tool used to access course material and as a means of communication. Your instructor will guide you in how it may be used in your course. Through MyPima you can also register and pay for classes, check your financial aid, access your student email, view your schedule, and read college-wide announcements.

MyPima also provides access to your online courses by linking to D2L, the College online learning system. You will use D2L to submit minute quizzes and to view your grades.

Instructor: Brad Fiero  Office Location: E-207
Office Hours: MW 9:30-11:00 and TTh 12:00-1:00  Instructor Phone: 520-206-6897  Instructor Email: bfiero@pima.edu
Technical Support Phone: 520-206-4800  STEM Office Phone: 520-206-6763

Start Date: 2/2/2016  End Date: 5/17/2016
Website: http://wc.pima.edu/~bfiero/bio109/  Class Meeting Days: Sat 2/13/16 and Sat 3/5/6  Class Meeting Time: 8:40-2:20 pm
Student Withdrawal Deadline: 4/7/2016  Final Exam or Final Activity Date: 5/12/16

Student Learning Outcomes
Upon successful completion of the course, the student will be able to:

1. Apply basic geological principles to interpret the physical setting of the Southwest.
2. Apply meteorological and biological principles to describe the formation of the major biotic communities in the Southwest.
3. Describe major desert adaptations and the process of natural selection.
4. Identify common plants and animals of the Southwest.
5. Integrate basic biological principles and specific natural history information and distinguish the common plants and animals of the Southwest.
6. Demonstrate skills necessary for life-long learning of natural history including conducting scientific research.
Syllabus Mandatory Statements

PCC Definition of a Credit
Students are expected to spend a minimum of 45 hours per credit on work related to the class. This includes time spent in the classroom as well as out-of-class work such as reading assignments, homework, projects, etc.

Attendance Requirements/Active Participation
Throughout the term, students must substantively participate in such a way as to ensure successful completion of the course by the end of the term (i.e. regularly submit assignments and continue to interact with other students and the course instructor). Students must complete at least one academic task per week/7-day period (including during the first 7 days of the course) that will serve as documented active participation. Faculty have the responsibility of noting whether the student is present or not using Attendance Tracker. Students who do not actively participate in the class by 2/8/2016, will be dropped from the class. This may result in adverse financial consequences such as a change in financial aid, veterans' benefits, and/or other benefits related to being a student. Examples of active participation include (but are not limited to):
- attending class during each scheduled face-to-face session

Notice to Students: Using Copyrighted Materials
Most of the instructional materials you will use in this course are copyright protected. Unless you buy the materials, you cannot download or copy them without the written permission of your instructor or the publisher of the materials. That includes websites you visit when completing assigned course work. Websites usually contain copyright protected material. Your visit to a website cannot include unauthorized downloading or copying, or attempts to bypass any security on the site or any payment system on the site. Please understand that there are serious penalties for the unauthorized copying or downloading of copyright protected materials. If you aren't sure whether you can copy or download materials, please ask your instructor or a librarian.

Federal Family Education Rights and Privacy Act (FERPA)
Subject to certain exceptions set forth in the Federal Family Education Rights and Privacy Act (FERPA) of 1974, Pima Community College will not provide personally identifiable student information (including but not limited to grades, billing, tuition and fees assessments, financial aid and other student records) to third parties absent the student's consent. Third parties include parents, spouses, siblings, and third party sponsors. You (the student) may grant Pima Community College permission to release certain information to a third party by submitting the FERPA Release form:
https://pima.edu/current-students/code-of-conduct/ferpa/index.html. Ask a staff member for a copy of the form BEFORE you arrive with a third party.

Mandatory Reporting
Arizona’s Mandatory Reporting Law (A.R.S. 13-3620): Pursuant to Arizona law (A.R.S. §13-3620), College personnel, including faculty, staff, and administrators, who learn in the course and scope of their employment that minor (defines as under 18 years of age) has been the victim of physical or sexual abuse, are required to report this information immediately to law enforcement. Arizona’s Mandatory Reporting of Sexual Violence and/or Sexual Offenses (A.R.S. 13-14xx) Pursuant to Arizona law (A.R.S. §13-14xx) and Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistic Act: 34 CFR Part 668:, College personnel, including faculty, staff, and administrators, who learn in the course and scope of their employment that an individual has been a victim of sexual violence, or is informed about an alleged sexual offense shall as soon as possible, contact the Department of Public Safety.

Title IX and Pregnancy
Title IX and Pregnancy: Students who would like to request classroom accommodations related to pregnancy, should contact the office of Access and Disability Resources (ADR) to learn more about their rights and responsibilities. The ADR office is at 520-206-6688 or ADRHelp@pima.edu.

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This syllabus is a guide for the course and is subject to change at the discretion of the instructor with notice to students.
American with Disabilities Act (ADA) Policy Statement

PCC is committed to providing accommodations for qualified individuals with disabilities in a timely and effective manner. To request a reasonable accommodation, students must be registered with the campus Access and Disability Resources (ADR) office. Accommodations will be made based on eligibility determined by Access and Disability Resources. Services can be requested at any time during the semester. Requesting services well in advance will help to ensure that resources are available when needed. Please contact the ADR office at 206-6688 or ADRHelp@pima.edu.

Financial Aid, Veteran’s Benefit, and other student Benefits

Your financial aid, veteran’s, and other benefits from PCC and external agencies are contingent on your participation, performance, and compliance with guidelines set by the College the benefit providers. Please see a student financial aid advisor, veteran’s benefits advisor, or other agency advisor for information on your benefits, your status with those benefits, and other items of which you should be aware.

Student Official Withdrawal from Class

A student may withdraw him/herself from the class by the Student Withdrawal Deadline listed above and a grade of ‘W’ will be recorded on the transcript. It is strongly recommended that you speak with faculty and a financial aid staff member before deciding to withdraw. Visit http://www.pima.edu/paying-for-school/financial-aid/managing-award/dropping-or-withdrawing.html to determine how dropping or withdrawing from class may have a negative impact your Standards of Academic Progress, financial aid, and/or scholarships. Review the Standards of Academic Progress at http://www.pima.edu/new-students/register-for-classes/academic-progress.html to understand the criteria required for and consequences of official withdrawals.

Academic Integrity/Cheating Plagiarism

All PCC students are considered to be responsible individuals and are accountable for their own behavior. The College expects students to obey local, state and federal laws, and to follow the Student Code of Conduct. PCC has zero tolerance toward student acts of plagiarism. Plagiarism, as defined in the Student Code of Conduct, “includes representing the work of another person as one’s own, including information downloaded from the Internet. The use of another person’s words, ideas, or information without proper acknowledgment also constitutes plagiarism.” The Student Code of Conduct is specific with regard to the academic ethics sanctions for plagiarism: https://www.pima.edu/current-students/code-of-conduct/docs/Student-Code-of-Conduct.pdf.

A summary of the Student’s Rights and Responsibilities, including the Student Code of Conduct and the Code of Academic Ethics, is available at http://www.pima.edu/studentserv/studentrights. You are expected to do your own work, be honest, and not be disruptive or disrespectful. A violation of the Code of Academic Ethics may result in a failing grade in the course and may be subject to further penalties. If you cheat or plagiarize, you will receive an F on the exam or assignment. In addition, Pima Community College Policy requires that the instructor notify the Division Dean, Vice President of Instruction, and/or the Vice President of Student Development in writing to describe the violation of academic ethics and the sanction imposed.

Student Resources

WC Learning Centers (tutoring): Santa Catalina Bldg., C-217, West (520) 206-6819
WC Library: Santa Catalina Bldg., 3rd floor, West (520) 206-6821
WC Testing and Assessment Centers: Santa Catalina Bldg., C-121, West (520) 206-6648
WC Computer Commons (Academic Computing): Santa Catalina Bldg., C-202, West (520) 206-6042
BIO 109 Course Policies and Procedures

Attendance Policy
Throughout the term, students must substantively participate in such a way as to ensure successful completion of the course by the end of the term (i.e. submit weekly minute quizzes, complete exams/test, attend lab days). Students must complete at least one academic task (i.e., minute quizzes) per week/7-day period (including during the first 7 days of the course) that will serve as documented active participation. Faculty have the responsibility of noting whether the student is present or not using Attendance Tracker. **Students who do not actively participate in the class by 2/15/2016 will be dropped from the class.** This may result in adverse financial consequences such as a change in financial aid, veterans’ benefits, and/or other benefits related to being a student. An example of active participation includes (but is not limited to):
- submitting weekly **minute quizzes**

Classroom Procedures and Class Conduct: Refer to the Student Code of Conduct for requirements relating to student behavior ([https://www.pima.edu/current-students/code-of-conduct/index.html](https://www.pima.edu/current-students/code-of-conduct/index.html)).

- Non-registered visitors are not allowed at class sessions or on field trips.
- Possession of drugs, alcohol or firearms on college property is illegal.
- Eating, drinking, smoking and soliciting are not allowed in classrooms.
- Animals are not allowed in the classroom as per SPG-3603/BA. Visit [https://www.pima.edu/about-pima/policies/standard-practice-guides/SPG-3603-BA.html](https://www.pima.edu/about-pima/policies/standard-practice-guides/SPG-3603-BA.html)
- Telephones, pagers and other electronic devices that distract students are not allowed in classrooms.
- Students creating disturbances that interfere with the conduct of the class or the learning of others, violates the Student Code of Conduct and may be asked to leave class. Students will be referred to the Academic Dean and/or the VP of Instruction and/or the VP of Student Development.
- Disruptive behavior will not be tolerated and can be cause for being dropped from the class. Disruptive behavior disrupts the learning process. Examples of disruptive behavior can be inappropriate talking, arriving late or leaving early, sleeping in class, etc.
- Every student is expected to contribute to a positive, distraction-free learning environment. **No use of cell phones, laptops, or other electronics in class except with instructor permission (otherwise, you may be asked to leave class). No talking while the instructor or another student is talking to the class.** In general, please be respectful of other students and the educational process.

Plagiarism/Cheating:
- Plagiarism (definition here: [http://wc.pima.edu/~bfiero/plagrsm.htm](http://wc.pima.edu/~bfiero/plagrsm.htm)) will result in zero points and an incident report sent to Administration for possible additional academic sanctions.
- Cheating also results in zero points and an incident report sent to Administration for possible additional academic sanctions. Cheating includes but is not limited to looking at another’s paper, talking to another student, and using cheat sheets, cell phones, laptops, headphones, and other electronic devices during quizzes/exams.
- To be clear, cell phones/laptops/earphones/etc must be totally out of site during quizzes/exams or it will be regarded as cheating.
- Once you have begun a quiz/exam you cannot leave the room until you are finished and have turned it in for grading.

Field Trips: One or more field trips are tentatively planned during this course. If you need a reasonable accommodation to participate in field trips, please contact the campus Access and Disability Resources office as soon as possible to ensure timely evaluation of your request and possible provision of services. If a field trip creates undue hardship or is not possible an alternative activity will be provided.

Group Projects: It is important that clear communication occurs between group members, and that expectations of each member are clear to all, and that all members fulfill what is expected of them on time. Each member of a group will be graded independently. Each in-class group meeting missed may result in one or more points missed.

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Make-Up and Late Work Policies:
Exams and Identification Tests cannot be made up. The Final Exam replaces the lowest Exam grade and the Final ID Test replaces the lowest ID Test.
Natural History Event Report is not accepted late (Last day to submit is April 20, 2016)
Labs are not accepted late (Last day to submit is April 20, 2016)
Note: with instructor approval exams, identification tests, labs, etc. may be turned in early.

Posting of Grades: Grades will be posted using D2L (https://d2l.pima.edu). In addition, grades may be sent by email. If you do not wish your grades to be emailed, please inform the instructor.

Rebuttal System: If you think you were graded unfairly (or erroneously) on an assignment or quiz, please turn in a written explanation (rebuttal) with your graded assignment/quiz to me within two weeks. I will write a response and return it to you. An appointment can be set up if you disagree with the resolution.

Withdrawal (W): Students who fail to attend the first class or fail to attend 3 consecutive classes without notifying the instructor may be withdrawn. If you decide you cannot continue in class, then officially withdraw by the official deadline. If you wish to receive a grade of "W" after the withdrawal date, please request this in writing to the instructor by the first day of final exam week; however, granting a grade of "W" after the withdrawal deadline is up to the discretion of the instructor.

Incomplete (I): Given only when a student has missed 20% or less of the course material for a reason acceptable to the instructor. Eligibility for an incomplete requires earned grades that average "C" or above at the time of request.

Course Grade Determination: monitor grades on D2L (https://d2l.pima.edu)
Your grade will be based on the percentage of total possible points that you earn, using the following scale: A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; F = < 60%. Points will be allocated as shown below, subject to change.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Percentage of Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>400 pts (4 @ 100 pts)</td>
<td>40%</td>
</tr>
<tr>
<td>Identification Tests</td>
<td>200 pts (4 @ 50 pts)</td>
<td>20%</td>
</tr>
<tr>
<td>Labs</td>
<td>260 pts (see schedule)</td>
<td>26%</td>
</tr>
<tr>
<td>Minute Quizzes</td>
<td>140 pts (14 @ 10 pts)</td>
<td>14%</td>
</tr>
<tr>
<td>Optional Natural History Event</td>
<td>40 pts extra credit</td>
<td>Extra credit 4%</td>
</tr>
<tr>
<td>Optional Final Exam</td>
<td>Replaces lowest Exam grade (if beneficial)</td>
<td></td>
</tr>
<tr>
<td>Optional Final ID Test</td>
<td>Replaces lowest ID Test grade (if beneficial)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Points:</strong></td>
<td><strong>1000 pts</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Final Grade: A = 90 - 100% = 900 – 1000 points
B = 80 - 89% = 800 – 899 points
C = 70 - 79% = 700 – 799 points
D = 60 - 69% = 600 – 699 points
F = Below 60% = 000 – 599 points

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<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 2 - Feb 16</td>
<td><strong>Unit 1</strong>: Venomous Animals; Science; Interrelationships; Classification; Plants, and Types of Photosynthesis</td>
<td>Unit 1 [Self-Quizzes]</td>
</tr>
<tr>
<td>Feb 13</td>
<td><strong>Lab Day 1</strong>: meet in Science Bldg (K) Room 133 from 8:40 am (please don't be late) until about 2:20 pm.</td>
<td>Lab Day 1: see <a href="#">lab manual</a> Optional review for Exam 1 follows at 2:20 pm.</td>
</tr>
<tr>
<td>Feb 17-23 (Wed-Tue)</td>
<td><strong>Exam 1 (over Unit 1) &amp; Plant ID Test</strong></td>
<td>Exam 1 &amp; Plant ID Test</td>
</tr>
<tr>
<td>Feb 17 - Mar 8</td>
<td><strong>Unit 2</strong>: Climate; Deserts; Desert Adaptations</td>
<td>Unit 2 [Self-Quizzes]</td>
</tr>
<tr>
<td>Mar 5</td>
<td><strong>Lab Day 2</strong>: meet in Science Bldg (K) Room 133 from 8:40 am (please don't be late) until about 2:20 pm.</td>
<td>Lab Day 2: see <a href="#">lab manual</a> Optional review for Exam 2 follows at 2:20 pm.</td>
</tr>
<tr>
<td>Mar 9-22 (Wed-Tue)</td>
<td><strong>Exam 2 (over Unit 2) &amp; Bird ID Test</strong></td>
<td>Exam 2 &amp; Bird ID Test</td>
</tr>
<tr>
<td>March 9 - April 5</td>
<td><strong>Unit 3</strong>: Arthropods; Fish; Amphibians; Reptiles; Birds; Mammals</td>
<td>Unit 3 [Self-Quizzes]</td>
</tr>
<tr>
<td>April 6-12 (Wed-Tue)</td>
<td><strong>Exam 3 (over Unit 3) &amp; Arth/Fish/Amph ID Test</strong></td>
<td>Exam 3 &amp; Arth/Fish/Amph ID Test</td>
</tr>
<tr>
<td>April 6-26</td>
<td><strong>Unit 4</strong>: Plate tectonics, Geology Concepts, Local Geology</td>
<td>Unit 4 [Self-Quizzes]</td>
</tr>
<tr>
<td>April 20 (Wed)</td>
<td>Last day to turn in Natural History Event Report</td>
<td>Natural History Event Report Due</td>
</tr>
<tr>
<td>April 20 (Wed)</td>
<td>Last day to turn in Labs</td>
<td>Labs Due</td>
</tr>
<tr>
<td>April 27 - May 3 (Wed-Tue)</td>
<td><strong>Exam 4 (over Unit 4) &amp; Reptile/Mammal ID Test</strong></td>
<td>Exam 4 &amp; Reptile/Mammal ID Test</td>
</tr>
<tr>
<td>May 6-12 (Friday-Thursday)</td>
<td><strong>Final Exam and Final ID Test (optional and comprehensive)</strong></td>
<td>Final Exam</td>
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</tbody>
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