Instructor(s): James P. Grover
Office Number: Life Science 468, Life Science 206CC
Office Telephone Number: 2-2405, 2-9495
Email Address: grover@uta.edu
Faculty Profile: [link]
Office Hours: Monday 3:00-5:00 PM, Tues. 2:00-3:00 PM, Fri. 10:00-11:00 AM or by appointment
Section Information: EVSE 5309 section 001 / BIOL 3356 section 001
Time and Place of Class Meetings: Life Science Bldg., room 424, Mondays 6:00 – 8:50 PM

Description of Course Content: An introduction to the biological components of environmental systems. Population dynamics, species interactions, community structure, biodiversity, bioenergetics, nutrient cycling and human impacts are reviewed. Focus will be on natural processes and their engineering applications.

Student Learning Outcomes:

BIOL 3356 -- Students will be able to describe and explain ecological concepts and apply them to environmental issues. Students will be able to analyze and synthesize primary scientific literature in environmental biology.

EVSE 5309 -- Students will be able to describe and explain ecological concepts and apply them to environmental issues. Students will be able to analyze and synthesize primary scientific literature in environmental biology. Students will be able to criticize current understanding in environmental biology and propose future research.

These outcomes will be assessed using embedded questions in course exams and through an analysis of research papers written by students.

Required Textbooks and Other Course Materials:
Course notes will be available on Blackboard.

Descriptions of major assignments and examinations:
There will be a midterm exam and a final exam. Both will be closed-book essay exams. You will need to bring a “blue book” for each exam. Each exam will consist of 6 essay questions, 4 of which must be chosen to answer.

Each student shall write a research paper on an environmental problem with significant biological content. Paper topics must be approved by the instructor. For BIOL 3356, papers must be at least 10 pages of typed, double-spaced text, excluding references and illustrations. For BIOL 5309, papers must be at least 12 pages. Printed papers must be turned in by the deadline; electronic submissions will not be accepted. Papers must also have a one-page Executive Summary written in non-technical language suitable for a general reader. Graduate students taking EVSE 5309 must also prepare an oral presentation of 15-20 minutes on the topic of their research paper.

To facilitate writing of the research papers, each student will be assigned to a Writing Circle. Writing Circles are small groups of people who interact together to support each other’s writing by reading, reviewing, discussing and editing each other’s work in progress. During the semester, all or part of several class sessions will be devoted to the activities of the Writing Circles. Milestones in the writing process -- such as preparation of a preliminary reference list, outline, and rough draft -- will have deadlines in order to keep the class on schedule. Students will be expected to meet these deadlines, attend class regularly, and participate actively in their Writing Circle. Full credit for class participation
requires attending all writing circle meetings to have face to face interactions with members and with the course instructor. Scoring of participation will not penalize a single absence heavily, but will penalize multiple absences. As a further resource on writing your papers, a book entitled “Writing Papers in the Biological Sciences” will be on reserve at the Science and Engineering Library.

**Late Work:**
The Final Version of the paper, with Executive Summary is due on the last day of class, May 1, 2017. Late papers will be penalized. A penalty of 5% will be deducted for late papers submitted after the due date up until the time of the Final Exam. A penalty of 10% will be deducted for late papers submitted after the time of the Final Exam. Being late in completing milestones for Writing Circles will affect the participation component of the grade.

**Attendance:** At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students’ academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, I expect students to attend all classes. In particular, full credit towards the course grade for participation in Writing Circles will require regular attendance.

**Grading:**
For graduate students enrolled in EVSE 5309:

- Exams: 40%
- Writing Circle milestones and participation: 20%
- Research paper and executive summary: 30%
- Oral presentation: 10%

For undergraduate students enrolled in BIOL 3356:

- Exams: 50%
- Writing Circle milestones and participation: 20%
- Research paper and executive summary: 30%

Each exam will consist of 6 essay questions, 4 of which must be chosen to answer. The grade for Writing Circles will be scored based on providing required materials by the due dates, quality of the materials prepared, assessment of participation by the instructor, and peer assessment.

Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels; see “Student Support Services,” below.

**Make-up Exams:** There will be no make-up exams unless an unanticipated and severe problem prevents attendance on the scheduled date, or unless the student is representing the University in an officially recognized activity for which University policy allows an excusable absence (e.g. intercollegiate athletics). Written documentation of circumstances will be required for make-up exams. Make-up exams will be given only at times scheduled by the Biology Department for this purpose.

**Expectations for Out-of-Class Study:** Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 9 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.

**Grade Grievances:** Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog, [http://catalog.uta.edu/academicregulations/grades/#undergraduatetext](http://catalog.uta.edu/academicregulations/grades/#undergraduatetext). For the graduate course section, see [http://catalog.uta.edu/academicregulations/grades/#graduatetext](http://catalog.uta.edu/academicregulations/grades/#graduatetext).

**Drop Policy:** Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially
withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aoa/fao/).

**Disability Accommodations:** UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a **letter certified by the Office for Students with Disabilities** (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

**The Office for Students with Disabilities, (OSD)**  [www.uta.edu/disability](http://www.uta.edu/disability) or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability).

**Counseling and Psychological Services, (CAPS)**  [www.uta.edu/caps/](http://www.uta.edu/caps/) or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

**Title IX Policy:** The University of Texas at Arlington (“University”) is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. For information regarding Title IX, visit [www.uta.edu/titleIX](http://www.uta.edu/titleIX) or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

**Academic Integrity:** Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

> I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

> I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents’ Rule* 50101, §2.2, suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

In this course, I encourage collaborative learning. But I expect that written assignments will be prepared by each student independently and will consist only of their own original material, except where other material is properly attributed to its source and credited with a reference in a manner that meets the accepted practices of the research community in the biological sciences.
Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at [http://www.uta.edu/oit/cs/email/mavmail.php](http://www.uta.edu/oit/cs/email/mavmail.php).

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit [http://www.uta.edu/sfs](http://www.uta.edu/sfs).

Final Review Week: for semester-long courses, a period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, which is reached by turning left from the classroom door, and proceeding straight to the staircase, down to the lobby floor, and out the doors at the base of the staircase. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at [http://www.uta.edu/universitycollege/resources/index.php](http://www.uta.edu/universitycollege/resources/index.php).

The IDEAS Center (2nd Floor of Central Library) offers free tutoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593.

The English Writing Center (411LIBR): The Writing Center Offers free tutoring in 20-, 40-, or 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Our hours are 9 am to 8 pm Mon.-Thurs., 9 am-3 pm Fri. and Noon-6 pm Sat. and Sun. Register and make appointments online at [http://uta.mywconline.com](http://uta.mywconline.com). Classroom Visits, workshops, and specialized services for graduate students are also available. Please see [www.uta.edu/owl](http://www.uta.edu/owl) for detailed information on all our programs and services.

The Library’s 2nd floor Academic Plaza offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library’s hours of operation. [http://library.uta.edu/academic-plaza](http://library.uta.edu/academic-plaza)
# Course Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>Jan. 23</td>
<td>Introduction and The Physical Environment</td>
</tr>
<tr>
<td>Jan. 30</td>
<td>The Physical Environment</td>
</tr>
<tr>
<td>Feb. 6</td>
<td>The Physical Environment; <strong>Paper Topics Due</strong></td>
</tr>
<tr>
<td>Feb. 13</td>
<td>Populations; Instructions on papers and scientific literature; <strong>Assignment of Writing Circles and Initial Meeting</strong></td>
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<tr>
<td>Feb. 20</td>
<td>Populations; <strong>Preliminary Literature List Due</strong>; Discussions in Writing Circles</td>
</tr>
<tr>
<td>Feb. 27</td>
<td>Populations; <strong>Outline / Prospectus Due</strong>; Discussions in Writing Circles</td>
</tr>
<tr>
<td>Mar. 6</td>
<td>Populations; Ecosystems &amp; Communities</td>
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<tr>
<td>Mar. 13</td>
<td>No class, spring break</td>
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<tr>
<td>Mar. 20</td>
<td><strong>First Midterm Exam</strong> (1½ hr); Ecosystems &amp; Communities</td>
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<tr>
<td>Mar. 27</td>
<td>Ecosystems &amp; Communities; <strong>Rough Drafts Due</strong>; Discussions in Writing Circles</td>
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<tr>
<td>Apr. 3</td>
<td>Applications; <strong>Reviews of Rough Drafts and Draft Executive Summaries Due</strong>; Discussions in Writing Circles</td>
</tr>
<tr>
<td>Apr. 10</td>
<td>Applications; <strong>Revised Drafts Due</strong>; Discussions in Writing Circles</td>
</tr>
<tr>
<td>Apr. 17</td>
<td>Applications; Discussions in Writing Circles</td>
</tr>
<tr>
<td>Apr. 24</td>
<td>Applications; Discussions in Writing Circles</td>
</tr>
<tr>
<td>May 1</td>
<td><strong>Final Version of Paper and Executive Summary Due</strong>; Student Presentations</td>
</tr>
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**Final Examination**  
Monday, May 8, 8:15 PM to 10:45 PM

Adjustments to the schedule may be necessary and if so, they will be announced in class.

**Emergency Phone Numbers:** In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911. Non-emergency number 817-272-3381

**Library Home Page** [library.uta.edu](http://library.uta.edu)

**Resources for Students**

- **Academic Help**  
  Academic Plaza Consultation Services [library.uta.edu/academic-plaza](http://library.uta.edu/academic-plaza)  
  Ask Us [ask.uta.edu](http://ask.uta.edu)  
  Library Tutorials [library.uta.edu/how-to](http://library.uta.edu/how-to)  
  Subject and Course Research Guides [libguides.uta.edu](http://libguides.uta.edu)  
  Subject Librarians [library.uta.edu/subject-librarians](http://library.uta.edu/subject-librarians)

- **Resources**  
  A to Z List of Library Databases [libguides.uta.edu/az.php](http://libguides.uta.edu/az.php)  
  Course Reserves [pulse.uta.edu/vwebv/enterCourseReserve.do](http://pulse.uta.edu/vwebv/enterCourseReserve.do)  
  FabLab [fablab.uta.edu](http://fablab.uta.edu)  
  Special Collections [library.uta.edu/special-collections](http://library.uta.edu/special-collections)  
  Study Room Reservations [openroom.uta.edu](http://openroom.uta.edu)