BIOLOGY 6353 - LIMNOLOGY LECTURE
Fall 2020 – Wednesday 6:00 PM – 8:00 PM
Cavness Science Building – Room 123

Lecture 1 Introduction, student surveys, grading, go over lab, lecture and field trips. Hand out reading assignment for Wk 2.
Lecture 2 Discussion and comparison of assigned papers.
Lecture 3 Physical & chemical properties of water.
Lecture 4 Lotic environments - Determination of stream age and physical properties of young, mature and old age drainage basins.
Lecture 5 Physical properties of lotic waters and biological adaptations to running waters.
First Lecture Exam.

Lecture 6 Introduction of lentic environments (lakes).
Lecture 7 Lakes (continued) and playas. Groundwater and springs.
Lecture 8 Ephemeral ponds and biological adaptations to them.
Lecture 9 Respiratory adaptations to lotic and lentic environments.
Second Lecture Exam.

Lecture 10 Thermal stratification of lakes and turnover.
Lecture 11 Light and heat in lakes.
Lecture 12 Significance of water chemistry testing and eutrophication.
Lecture 13 Survey of significant faunal groups and emergence patterns of aquatic insects.
Third Lecture Exam.

ATTENDANCE

There are very few reasons which justify the absence of a graduate student from class. While there may be others, attendance of a professional meeting or hospitalization in a medical facility are the only two that come to mind. All missed assignments will be completed by the student. Each unexcused absence will result in the lowering of the student's final grade by half of a letter grade. The same policy applies to those who arrive late to class. Soft drinks, juice and coffee are allowed in class - but no food.

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook. Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request such accommodations prior to any accommodations being implemented. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.

Learning Outcomes - Students are expected to acquire a knowledge of the physical, chemical and biological influences relating to the surface and subsurface freshwater systems of central west Texas as well as the influence of man’s use and misuse of this natural resource.
August 20 - Field trip to the Concho River at Mullins Crossing.

Aug. 27 - Field trip to the South Concho River in Christoval.

Sept. 3 - Field trip to Anson Springs.

Sept. 10 - Stream flow and discharge exercise on the S. Concho River.

Sept. 17 - Work up water chemistry data sheets (three field trips) & Stream Discharge exercise.

Oct. 1 - Pond mapping exercise.

Oct. 8 - Temporary pond exercise.

Oct. 16-18 - Field trip to upper Devils River (Val Verde County) – weekend - optional.

Oct. 22 - Work up faunal collections from temporary pond field trip.

Oct. 29 - Topographic map reading exercise & Google Map exercise.

Nov. 5 – Canyon Lake oxygen-temperature exercise.

Nov. 12 - Work on Term Reports

Nov. 19 - Final Laboratory practical.

Nov. 23 – Final Exam: 6:00-8:00 pm - This exam is optional. It is comprehensive and is to be taken only by those students who wish to raise their lecture average. The grade on the final exam will replace the student's lowest hour exam grade.

Nov. 26 - Thanksgiving holiday.

Grading: Exam average - 60%
Term report - 30%
Laboratory exam - 10%
Limnology - 2020 Exam Schedule


Aug. 26 – (A) Physical/Chemical prop. of Water – (B) Stream Age.

Sept. 2 – (C) Lotic Waters.

**Sept. 9 – 1st exam**

Sept. 16 – Return Exam 1 & go over it.

Sept. 23 – (D) Lake Origins – (E) Ground water & Springs.

Sept. 30 – (F) S. Concho R. discharge – (G) Respiration in aquatics & (H) Temporary pools.

**Oct. 7 – 2nd exam**

Oct. 14 - Return Exam 2 & go over it.


Oct. 28 – (K) Chemical tests & Eutrophication – (L) Faunal significance.

**Nov. 4 – 3rd exam**

Nov. 12 (Thursday) – lab exam

Nov. 23 (Monday) – Final Exam – This exam is Optional.

Nov. 25 - Holiday (26th is Thanksgiving).