

UNLV COURSE SYLLABUS INFORMATION

GEOL 474-674 - Hydrogeology (3 cr.)

M-W 5:30-6:45 am

1. Instructor: Dr. David K. Kreamer

Office hrs. LFG 205 – Mon 2-3:30 pm, Weds. 1-3pm, and other times by appointment

Phone (702) 895-3553, FAX (702) 895-4064, Dept. (702) 895-3262, e-mail dave.kreamer@unlv.edu

2. Course Learning

Upon completion of the course, students should have a comprehensive, introductory understanding of:

1. Water distribution – History of Hydrogeology
2. Groundwater definitions and properties
3. Principles of Groundwater flow
4. Regional Groundwater flow
5. Geology of Groundwater
6. Groundwater flow to wells
7. Well drilling and construction
8. Well logging and sampling
9. Water Quality and Groundwater Pollution
10. Introduction to Groundwater modeling
11. Surface Water Considerations (time permitting)

3. Assessment of these learning/outcome objectives will be based on lecture, quizzes, term assignments, and exams including the final exam.

4. The purpose of this course is to provide an introduction to and survey of the field of Hydrogeology. Student responsibilities include: attending the lectures, taking and maintaining lecture notes to supplement the assigned text readings and webinars, studying and learning the hydrogeological terms, relationships, field approaches and basic quantitative methods. Examinations are primarily multiple choice, key-term definition and problem solving; Departmental policy precludes make-up exams.

Required Textbook:

Applied Hydrogeology, 5th edition, 2022, Fetter and Kreamer, Waveland Press,

<https://www.waveland.com/browse.php?t=732> Available in hard copy or electronic form. Important – you will be quizzed on reading assignments. Note that the previous edition is more than 20 years old so you will want the 5th edition.

Grading policy:

Final grades will be assigned according to the following schedule. The instructor may also elect to curve grades in the students favor. A = 90% or above, B = 80-90%, C = 70-80%, D = 60-70%, F = Below 60%.

Public Health Directives

- Face coverings are currently optional for all faculty and students in the classroom.
- Students must follow all active UNLV public health directives while enrolled in this class. UNLV public health directives are found at Health Requirements for Returning to Campus (<https://www.unlv.edu/coronavirus/health-requirements>). Students who do not comply with these directives may be asked to leave the classroom. Refusal to follow the guidelines may result in further disciplinary action according to the UNLV Student Conduct Code, https://www.unlv.edu/sites/default/files/page_files/27/StudentConduct-Code.pdf, including being administratively withdrawn from the course.
- Information about COVID-19 reporting may be found here (<https://www.unlv.edu/coronavirus/reporting>).

manner that is disruptive and interferes with the right of other students to learn or of the instructor to teach, then the student will be administratively dropped from the course.

5. Disability Resource Center

If you have a special need/disability, register with the UNLV Disability Resource Center and please let me know outside of class sometime during the first week of the course. This helps me to adjust or alter plans so that problems can be minimized and your learning experience can be maximized.

6. Nondiscrimination

The University of Nevada Las Vegas does not discriminate on the basis of race, color, creed, religion, national or ethnic origin, gender, age, sexual orientation, disability, or veteran status.

7. Official Extracurricular Activity

All students who represent UNLV at any official extracurricular activity have the opportunity to make up an assignment. However, you must provide official written notification to me at least 1 week prior to the missed class(es).

8. Learning Environment

The classroom is intended to be a place of learning. As such, and as specified in the UNLV Undergraduate Catalog, no pagers, cell phones for outside calls, or other potentially disruptive devices are allowed to be used in lecture. Disruptive behavior such as those described above, chatting, sleeping, playing games on computer or cell phone may result in an administrative withdrawal from the course.

12. Succeeding!

To do well in this class you should study and work with the material daily. At the end of each day, read your notes and make sure that you understand what you wrote. Better yet, re-write your notes in a second notebook using complete sentences: if something isn't clear in your own mind it will be readily apparent to you. For best results, do this within 24 hours of when class ends. Develop a study group, you'll learn more and it will be more enjoyable. Keep up with reading assignments and lecture material. It is harder to come from behind than to stay engaged daily. If you get confused or have questions that have not been resolved in lecture, then do not hesitate to contact me. Meeting with me during office hours is best because I have set aside this time for you. If you cannot make any of my office hours, call or email for an appointment.
