

**CWR 5125 - GROUNDWATER HYDROLOGY
PROJECT – Fall 2021
POINTS = 30/100 POINTS - DEADLINES: See below**

Objective

To *either* develop or improve a new computational methodology *or* to demonstrate the application of a groundwater computer model, in support of solving groundwater flow and/or contaminant transport problems. PhD students may consider, as an alternative to the above, writing a “review paper” on any of the highlighted themes or topics of the course program or others (topic is to be approved by the instructor on a case-by-case basis).

Guidelines

Students individually or in teams, *this conditional to instructor’s approval of scope of project*, will complete and present written and oral reports of professional quality. Paper should be 10-20 pages long, excluding appendices. Written report contents should include, at least, the following items or equivalent as applicable:

- Cover Page
- Team Members
- Table of Contents
- List of Figures
- List of Tables
- 1. Introduction (background and justification)
- 2. Objective(s)
- 3. Literature Review (5 journal articles minimum, among other relevant documents)
- 4. Theory
- 5. Description (any specifics of your study)
- 6. Methodology
- 7. Results and Discussion
- 8. Conclusions
- 9. Recommendations
- References
- Appendices (as necessary)

Deadlines

- a) Project Proposal: October 12, 2021 *or earlier* in instructor's mailbox.
One page: tentative title, objective, approach, and initial list of references; student(s) must sign at the bottom of the page.
- b) Written Report: December 3, 2021 by 4:30 PM (*or earlier*) in instructor’s mailbox.
Maximum of 20/100 points equally based on technical content and quality of presentation.
- c) Oral Presentations: December 7, 2021.
Maximum of 10 points equally based on quality of presentation and effectiveness of delivery.
Duration: 15-20 minutes followed by questions (number of minutes will be decided by the instructor in advance to the presentation). An electronic copy of the oral presentation must be presented to the instructor at the end of the oral presentation.
- d) Reports and electronic material may not be returned by the instructor. Students are thus recommended to make full copies of all turned in materials.