ENR 3285
Watershed Hydrology
Spring Semester 2018

Class Time/Location:  Tues/Thurs 11:30am – 12:25pm Kottman 333
                     Fri 9am – 12am (Kottman 114 computer lab / Heffner Wetlands)

Instructor:          Dr. Rachel Gabor, gabor.40@osu.edu, 473b Kottman Hall
                     Office Hours: Thursday 1:00 - 2:00pm or by appointment (additional office hours
                     will be posted on Carmen Calendar)

Teaching Assistant: Travonya Kenly, kenly.1@osu.edu, 465b Kottman Hall
                     Office Hours: Wednesday 1:00 - 2:00pm or by appointment.

Instructional Associate, SENR: Kim Winslow, winslow.52@osu.edu, 107A Heffner Building (Wetlands)

Course Description: In this course we will study how water interacts with the landscape at the
watershed/catchment scale. By the end of the semester students will:

- Utilize basic scientific principles to describe controls of the hydrologic cycle on a
  watershed scale
- Understand the relationship between water and the landscape and how the
  landscape drives watershed hydrologic functioning
- Use multiple physical and chemical techniques to characterize the hydrology of a
  watershed
- Utilize the scientific method and conduct data analyses to investigate the
  hydrologic functioning of watersheds
- Develop a basic proficiency with Matlab as a computational tool for data analysis
  and modeling.
Texts


Occasional supplementary reading will be posted on Carmen.

Carmen / Course Communication

Carmen will be used throughout the semester so please make a habit to check both it and your osu.edu email regularly. The Carmen calendar will be updated with seminars, readings, assignments, etc. as well as additional office hours. Please feel free to use the discussion board on Carmen to discuss class-related questions.

I will make every effort to respond to emails within 24 hours of receiving them, but do not always check email on weekends.

Course Evaluation

Your grade for the course will consist of four parts:

35%  Homework Assignments  
35%  Lab Assignments  
20%  Quizzes  
10%  Final Lab Write-up

**Homework Assignments:** There will be approximately 7 – 8 homework assignments throughout the semester. These will largely consist of problem sets related to the material covered in class. Homework assignments will be challenging so please start them early so you have time to ask for help.

**Lab Assignments:** Attendance is mandatory. The first 8 – 9 weeks of the semester we will meet in the computer lab in 114 Kottman to learn how to use Matlab and practice hydrologic data analysis. Some weeks there will be a pre-lab activity for you to complete before lab starts. Later in the semester, when it is warmer, we will meet outside to practice hydrologic measurements. Most weeks, the bulk of the work will be completed in-class, but there may be some write-up to finish outside of class.

**Quizzes:** Approximately 4-5 short quizzes will occur throughout the semester. They may not all be announced.

**Final Lab Write-Up:** The last few weeks of lab we will, as a class, conduct a research project along tributaries to the Olentangy River. A final write-up of the results will be due the morning of April 25th.
**Extra Credit:**

For extra credit, twice during the semester each student may

1. Attend a water-related seminar on campus (approved seminars will be posted on Carmen – please email me about any seminars you learn of which aren’t posted)
2. Write a 1 page (1 inch margins, 12 pt font, double spaced) summary of the seminar. Be sure to include the title of the seminar, name of the speaker, and date and time of the seminar.
3. Submit that summary to Carmen within **48 hours** of the end of the seminar.

The first extra credit assignment will add 10 points to your homework grade. The second one will add 10 points to your lab grade.

**Late Work:**

Twice during the semester, each student can turn in an assignment up to 2 business days late without penalty. Beyond that, work will lose a letter grade for each day it is late, up to 3 days. If you have a life event that needs more flexibility, please talk to me privately.

**Class Policies**

1) There will likely be times you find an aspect of this course particularly challenging. I invite you to come to office hours for help. The sooner you bring forth your concerns, the sooner I can help – there is very little that can be done at the end of the semester.

2) Sometimes mistakes happen during grading. If you feel that your grade on an assignment is incorrect, please submit in writing an explanation of why you wish to appeal your grade within one week of the assignment being returned. Final course grades are non-negotiable outside of clerical error.

3) You are encouraged to work with other classmates on assignments. However you should do the write-ups entirely on your own, in your own words, to ensure you fully understand the solution.

4) Please respect me and your fellow students and refrain from distracting behavior in class including private discussions, sleeping, phone usage, etc. If you have a laptop out to take notes please sit in the back of the room to minimize distractions to those around you.

5) Life happens. College is a stressful time and the world is a chaotic place. If something is happening in your life that will impact your full participation in the course, please utilize campus resources and give me a heads up so we can find how to best help you succeed.
Ohio State’s academic integrity policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University’s Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University’s Code of Student Conduct and this syllabus may constitute “Academic Misconduct.”

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University’s Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Accessibility accommodations for students with disabilities

Statement on Title IX

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at http://titleix.osu.edu or by contacting the Ohio State Title IX Coordinator, Kellie Brennan, at titleix@osu.edu

Accessibility accommodations for students with disabilities

Requesting accommodations

If you would like to request academic accommodations based on the impact of a disability qualified under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, contact your instructor privately as soon as possible to discuss your specific needs. Discussions are confidential.

In addition to contacting the instructor, please contact the Student Life Disability Services at 614-292-3307 or pds@osu.edu to register for services and/or to coordinate any accommodations you might need in your courses at The Ohio State University.

Go to http://ods.osu.edu for more information.
Diversity and Discrimination

The Ohio State University affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. We are committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among each member of our community; and encourages each individual to strive to reach his or her own potential. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.

Class rosters are provided to the instruction with the student’s legal name. I will gladly honor your request to address you by a chosen name and pronoun. Please advise me of this preference early in the semester so I may make appropriate changes to my records.

Student Resources

There are many resources on campus devoted to assisting students personally and academically. Please do not hesitate to utilize them if you find you need. Some include:

Counseling and Consultation Service: https://ccs.osu.edu/

Ohio State Writing Center: https://cstw.osu.edu/writing-center

Dennis Learning Center: http://dennislearningcenter.osu.edu/

Office of Diversity and Inclusion: https://odi.osu.edu/

OSU Libraries: https://library.osu.edu/