

To increase student ability to contribute to watershed management and problem solving in the local community through the use of GLOBE investigations and collaboration with scientists and watershed practitioners.

5. Student Learning Outcomes:

By the end of the course, undergraduate students will have:

An increased understanding of the concepts of hydrology, including the water budget, water flow and stream flow analyses, erosion and sedimentation, fluvial processes, water quality, and best management practices.

An increased skill set for watershed planning, non-point source pollution prevention, scientific investigation, and mathematical literacy.

An increased ability to implement monitoring protocols (including GLOBE or other protocols for monitoring atmosphere, hydrology, water quality, land cover, soils, frost, and active layer above permafrost).

Designed and implemented an inquiry-based monitoring investigation in collaboration with a scientist or watershed manager to address an identified watershed-related issue.

Presented a project and published an abstract and poster on the GLOBE website, with the opportunity to participate in the GLOBE International Virtual Science Symposium.

6. Course Materials

Text:

Brooks, K.N., Ffolliott, P.F., Magner, J.A. 2013. *Hydrology and the management of watersheds, 4th Ed.* Wiley-Blackwell Publishing. ISBN-13: 978-0-4709-6305-0

Technical Plans/Guides:

Fairbanks Green Infrastructure Group. 2019. Green infrastructure for Interior Alaska: Local benefits and implementation of best management practices. Available from <http://www.fairbanksgig.com/benefits>

Walter, J., Hughes, D., Moore, N., Inoue, J. 2005. Streambank revegetation and protection: A guide for Alaska. Revised 2005. Alaska Department of Fish and Game, Division of Sport Fish. Available from https://www.adfg.alaska.gov/static/home/library/pdfs/habitat/98_03.pdf

Yukon River Inter-Tribal Watershed Council. 2013. Yukon River Watershed Plan. Tribes and First Nations of the Yukon River and Yukon River Inter-Tribal Watershed Council. Available from <https://www.yritwc.org/>



Academic Integrity

Plagiarism will not be tolerated and will result in the student earning a failing grade in the assignment and will result in additional disciplinary measures. Plagiarism includes using another person's work and improper citation of sources.

Late Work

Discussion Posts/Replies are graded according to a set rubric. Late posts and/or replies are accepted, but earn fewer points.

Late Lab Assignments are accepted for partial credit (up to 70%) if turned in less than one week after the due dates. Late Lab Assignments are accepted for up to half credit (up to 50%) if turned in prior to **Monday, November 29 at 11:59 pm, the final day and time to submit late work.**

Late GLOBE abstract and poster will be accepted for partial credit (up to 70%) if submitted to Blackboard prior to **Monday, November 29 at 11:59 pm, the final day and time to submit late work.**

Attendance Policy, Excused Absence and Make-up Work (for Participation Grade)

Missing lab and class results in missing important information. You are responsible for learning any material covered in class and lab. Absences may be excused for legitimate reasons when the instructor is contacted in advance (e.g. sickness, time conflict with other required activities, etc.)

To arrange an excuse for an expected absence at the start of the semester, submit an

W on the transcript. A No Basis (“NB”) is rarely given; it is used when the instructor has no basis on which to assign a grade.

Syllabus Addendum (Revised 8/18/2021)

: Students should keep up-to-date with the latest mandates related to COVID-19 by regularly checking this website:
<https://sites.google.com/alaska.edu/coronavirus/uaf?authuser=0>

7
 subject to disciplinary actions if they do not comply.

: UAF embraces and grows a culture of respect, diversity, inclusion, and caring. Students at this university are protected against sexual harassment and discrimination (Title IX). Faculty members are designated as responsible employees which means they are required to report sexual misconduct. Graduate teaching assistants do not share the same reporting obligations. For more information on your rights as a student and the resources available to you to resolve problems, please go to the following site: <https://catalog.uaf.edu/academics-regulations/students-rights-responsibilities/>.

I will work with the Office of Disability Services to provide reasonable accommodation to students with disabilities.

:
 Speaking Center (907-474-5470, uaf-speakingcenter@alaska.edu, Gruening 507)
 Writing Center (907-474-5314, uaf-writing-center@alaska.edu, Gruening 8th floor)
 UAF Math Services, uafmathstatlab@gmail.com, Chapman Building (for math fee paying students only)
 Developmental Math Lab, Gruening 406
 The Debbie Moses Learning Center at CTC (907-455-2860, 604 Barnette St, Room 120, <https://www.ctc.uaf.edu/student-services/student-success-center/>)
 For more information and resources, please see the Academic Advising Resource List
 (

including against sex discrimination, applies to students, employees, and applicants for admission and employment. Contact information, applicable laws, and complaint procedures are included on UA's statement of nondiscrimination available at www.alaska.edu/nondiscrimination. For more information, contact:

UAF Department of Equity and Compliance

1692 Tok Lane, 3rd floor, Constitution Hall, Fairbanks, AK 99775

907-474-7300

uaf-deo@alaska.edu

Additional syllabi statement for courses including off-campus programs and research activities:

University Sponsored Off-Campus Programs and Research Activities

We want you to know that: