

Office of Academic Affairs
Tarleton State University
April 21, 2009

Master Course Syllabus Outline

Department: Engineering and Physics

Course Prefix/Number: HYDR 110-3

Official Course Title: Introduction to Hydrology

I. Catalog Description: Introduction to the basic principles and practices of Hydrology including the relation of the physical and biological sciences to an understanding of the water cycle. Topics covered will also include determination of drainage areas, unit hydrographs, recurrence intervals, introduction to routing, probabilities, and conversion factors.

II. Prerequisite: None

III. Expanded Course Description: The course introduces the basic principles of hydrology (i.e., concepts of hydrology cycle and hydrograph), watershed science, and practices of hydrology. In addition, this course introduces the algebra of watershed physical and biological processes, which includes the delineation of watershed, determination of drainage area, development and application of unit hydrograph, determination of flood recurrence interval, and routing of flood hydrographs. Also, this course introduces units that are commonly used in hydrology and their mutual conversions.

IV. Intended Student Outcomes:

- Understand the concepts of hydrology cycle
- Understand the watershed physical and biological processes
- Learn the algebra of the watershed processes
- Gain the ability to do elementary-level analyses/computations of water balance
- Get familiar with units that are commonly used in hydrology

V. Coordinators: Dr. Xixi Wang, P.E.

VI. Academic Honesty:

Cheating, plagiarism (submitting another person's materials or ideas as one's own), or doing work for another person who will receive academic credit are all-impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, or term papers, or the presentation of unacknowledged material as if it were the student's own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

VII. Students with Disabilities Policy:

It is the policy of Tarleton State University to comply with the Americans with Disabilities Act (ADA) and other federal, state, and local laws relative to the provision of disability services. Students with disabilities attending Tarleton State University may contact the Office of Disability Services at (254) 968-9478 to request appropriate accommodation. Furthermore, formal accommodation requests cannot be made until the student has been officially admitted to Tarleton State University.