Special Requirements for Applicants Holding College Degrees in Fields Other than Civil Engineering

Prerequisites for applicants seeking admission to graduate studies of the Hydraulic/Hydrologic Engineering option at Auburn

From: Dr. Xing Fang, Hydraulic/Hydrologic Engineering Graduate Coordinator

Proposed by the Hydraulic/Hydrologic Engineering group on October 5, 2015

Approved by Dr. Andrzej Nowak (Department Chair) on October 11, 2015

1) List of prerequisites: At a minimum, potential candidates should have completed the following courses (or the equivalents) to graduate from our hydraulic/hydrologic graduate program:

   a) Math 1610 Calculus I
   b) Math 1620 Calculus II
   c) Math 2630 Calculus III
   d) Math 2650 Differential Equations
   e) PHYS 1600 Engineering Physics I or equivalent introductory physics
   f) PHYS 1610 Engineering Physics II or equivalent
   g) CIVL3010 CE Analysis or equivalent computer programming course
   h) CIVL 3110 Hydraulics or equivalent introductory fluid mechanics

2) One of the following courses:
   a) CIVL 4230 Urban Hydraulic System Design or equivalent
   b) CIVL 5110 Open Channel Hydraulics or equivalent
   c) CIVL 5120 Hydrological Analysis and Modeling or equivalent
   d) CIVL5130 Hydraulic Design of Pressurized Systems or equivalent
   e) CIVL 5150 Groundwater Hydraulics, soil physics or equivalent
   f) Any advanced fluid dynamics, systems analysis, optimization or numerical analysis class

3) Procedures: Based on the prerequisite guideline, the academic credentials of each applicant will be assessed individually and a list of prerequisites will be decided by the Hydraulic/Hydrologic Graduate Coordinator and the major advisor who is interested in supporting/advising the student. This list and the supporting application material will be made available for review to the entire Hydraulic/Hydrologic faculty.

Note: Additional prerequisites may be required by the relevant faculty.