

DOMINICAN REPUBLIC HYDRO-ENGINEERING

INTERNATIONAL CHALLENGES IN WATER RESOURCES STUDY ABROAD WINTER 2023



Students will become partners with fellow BYU undergraduate and graduate students as well as engineers from our partner Instituto Nacional de Recursos Hidraulicos (INDRHI), the Dominican Republic's national hydrological service, in applying water resources models methods, and application development to critical problems faced in the Dominican Republic. Courses will focus on distance collaboration with international partners to develop an approach to the specific team project assigned. The objective of this program is to provide students with opportunities to expand on the technical foundation learned through traditional classroom experiences and curriculum to develop the skills that will be necessary to practice and compete in a global environment.

DATES

Late January- early February

HOUSING

Students will be housed in a local hotel.

COURSES

Registration Options

All students who are accepted into the program and want to receive capstone credit are expected to register for the one credit, professional development class CE 471A (Section 2). Students will register for CE 439 (3.0 credits) during winter semester 2023, this course counts as either capstone or a technical elective for undergraduates. Graduate students can register for either CE 439 or a section of CE 594R. Students not taking the class for capstone will be asked to join teams and begin to learn about possible projects during the second half of fall 2022.

COST

\$2,200–2400 (approx.)

Includes airfare, some meals, and international health insurance coverage. (Airfare is the largest uncertainty and to the degree that costs are higher or lower will be according to the airfare costs)

Does not include personal expenses, tuition, and some meals.

The out-of-pocket cost of this program will be closer to \$1400 after the generous support by the Weidman Center for Global Leadership and the Department of Civil and Construction Engineering.

Please note the subsidy does not apply to students outside of the BYU Ira A. Fulton College of Engineering and Technology.

TRAVEL

Flights which are covered by the program cost will be arranged by the program directors through a BYU Travel agent.

Students may not purchase their own flights. BYU Travel | 280 HRCB | (801) 422-6293 | travel@byu.edu

PREPARATION

Preferred prerequisites

Minimum: CE 332—Hydraulics and Fluid Flow Theory (3.0 credits)

Suggested: CE 431—Hydrology (3.0 credits, concurrent winter)

Helpful: CE 433—Hydraulic Engineering (3.0 credits)

Plus: CE 531—Principles of Hydrologic Modeling (3.0 credits)

Accepted students are required to participate in an international, cross-cultural preparation course (IAS 201R, 1 credit hour). This class will be held during the second block of the Fall 2022 semester. Part-time BYU students and non-BYU students will need to pay an additional tuition fee. Accompanying spouses need to be credit-bearing participants on the program.

Students must meet all country- and program-specific COVID and health requirements for travel.

FUNDING SOURCES

Regular BYU tuition scholarships, Pell Grants, and Federal Insured Student Loans may be applied to Study Abroad programs. Students who submit the financial aid section of the ISP application, and who have a current FAFSA form on file at the Financial Aid Office, will be considered for a Study Abroad scholarship. Academic departments and colleges may assist with scholarships and grants. Private grants and scholarships outside of BYU may also assist (see <https://kennedy.byu.edu/scholarships>).

APPLICATION PROCESS

Students must be 18 years of age or older.

Complete the online application at kennedy.byu.edu/isp-apply. The application requires a \$35 fee.

Applicants will be contacted for an interview by the program director(s).

Students will be notified via e-mail of their acceptance into the program.

The first payment is due upon acceptance.

Deadline: 26 August 2022

If you want to take this class for capstone then you should be registered by mid-August.

FACULTY

Jim Nelson, professor of civil and environmental engineering, will direct the program. Dr. Nelson has taught and conducted research in applied hydrology and developed the widely used Watershed Modeling System (WMS). He speaks Spanish and has led this program on several projects in both Mexico and the Dominican Republic.

(801) 422-7632 | jimn@byu.edu

SCHEDULE AND TIME COMMITMENT

The travel portion of the program is about 10 days and takes place in early to mid-February of the winter semester 2023.

INTERESTED STUDENTS SHOULD CONTACT

International Study Programs

(801) 422-3686 | isp@byu.edu | kennedy.byu.edu/isp

PROGRAM ADJUSTMENTS

International Study Programs (ISP) reserves the right to cancel this program, revise its offerings, or make any adjustments to the preliminary cost. If it becomes necessary for ISP to cancel a program, all program payments made to BYU ISP will be refunded to the student's BYU financial account. ISP is the only office authorized to cancel any of its programs.