Students will partner with fellow BYU undergraduate and graduate students, as well as students and faculty from UVU and partnering institutions in Indonesia, to assist in forecasting, communicating and building resilience to tsunamis and other natural hazards in Java. The focus of the program is for students to both learn and teach skills in geological exploration using Ground Penetrating Radar (GPR), trenching techniques, numerical modeling, sediment analysis, structural analysis, and field mapping in an active fold-thrust belt.

The objective of this program is to provide students with opportunities to expand on the technical foundation learned through traditional classroom experiences and curriculum in order to develop the skills that will be necessary to practice natural disaster mitigation and compete as geologists in a global environment. Natural Disasters have claimed over 300,000 lives in Indonesia since 2004. Many US petroleum and mining companies operate in Java and other parts of Indonesia.

DATES
4–7 July: Training on BYU campus
8–30 July: Expedition in Indonesia
1–5 August: Complete report on BYU campus

COURSES
Course Credit: 6 credit hours of Geology Field Studies (course offerings waiting for approval)
Prerequisites: GEOL 101 or 111

COST
$4,600–4,900
Includes LDS, undergraduate full tuition (increased cost for graduates and non-LDS students) and program expenses in Indonesia, such as lodging, food, transportation, Indonesian mentor, visas, permits, and international travel insurance.
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 (A-41 ASB), 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 kennedy.byu.edu/isp/funding/scholarships/).

PREPARATION
All students who are accepted into the program are expected to register for the one credit, pre-departure preparation class GEOL 497R, which will be offered during the 2nd block of Winter Semester.

Part-time BYU students and non-BYU students will need to pay an additional tuition fee of approximately $270.

APPLICATION PROCESS
Complete the online application at kennedy.byu.edu/apply. A nonrefundable $35 application fee is required. Applicants will be interviewed once the application is complete and will be notified via e-mail of their acceptance into the program.

Deadline: 25 February 2016

FACULTY FROM BYU
- Ron Harris has conducted geological research in Indonesia for twenty-seven years and published thirty-five papers on geological issues there. Harris speaks Indonesian and is primarily responsible for leading the expedition.
- Chad Emmett is a social geographer at BYU who focuses on women's roles in natural disaster mitigation. Emmett has led projects in Java and E. Indonesia that focus on resilience to natural hazards and construction of safe schools.
- Jared Whitehead is an applied mathematician at BYU with expertise in geophysical fluid dynamics and modeling of earth systems. Whitehead will coordinate training students in use of GeoClaw software to develop tsunami models for Java.

FACULTY FROM UVU
- Daniel Horns is a professor of geology and the associate dean of the College of Physical and Human Sciences. Horns will coordinate training in paleo-seismology and trenching techniques.
- Steve Fellows is an assistant professor of geology who will coordinate training in GPR for exploring the subsurface expression of tsunami deposits. Fellows will also train students in mineral exploration at active mines in Java.
- Mike Bunds is a professor of geology with special emphasis in structural geology and tectonics. Bunds will be primarily involved in training and acquiring high-resolution topographic and bathymetric data modeling tsunami run-up heights.
- Sarah Pace is an assistant professor of health, with a special emphasis in assessing levels of preparedness for various hazards. Pace will coordinate student training in conducting surveys on levels of resilience to natural hazards.

FACULTY FROM INDONESIA UNIVERSITIES
- Carolus Prasetyadi is a professor at Universitas Pembangunan Nasional (UPN) in central Java, and speaks English fluently. Prasetyadi co-founded the Center for Natural Disaster Mitigation at UPN. His primary role is to coordinate and supervise the structural analysis and mapping of the active fold and thrust belt.
- Eko Yulianto is a chief scientist at the Indonesian Institute of Science (LIPI), and speaks English fluently. Yulianto is the lead tsunami paleo-seismologist in Indonesia and will train students how to excavate and analyze tsunami deposits.
- Leslie Angeningsih is a professor of sociology at the Institute of Community Development (APMD) in Indonesia. Angeningsih’s role is to coordinate student projects in community-level disaster preparedness and mitigation.

INTERESTED STUDENTS SHOULD CONTACT
International Study Programs
801-422-3686
isp@byu.edu
kennedy.byu.edu/isp

PROGRAM ADJUSTMENTS
ISP reserves the right to cancel this program, revise its offerings, or make any adjustments to the preliminary cost estimates due to conditions beyond its control.