

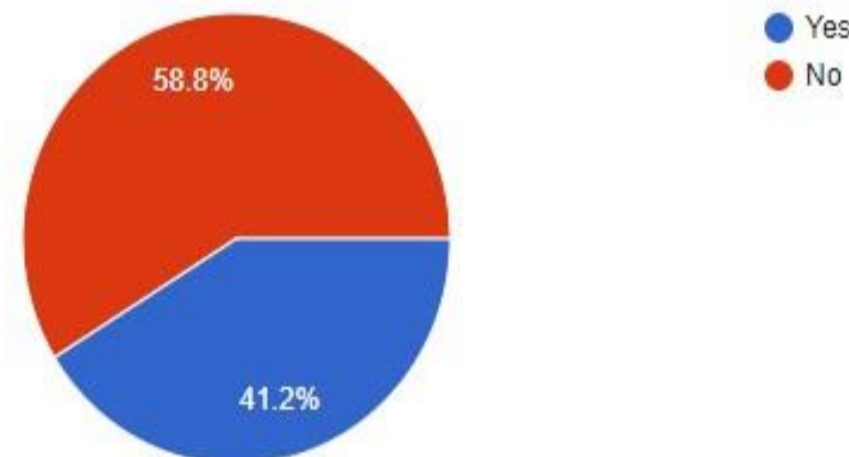
# Development of Underground Utility Construction Course Curricula for the Granite Heavy Civil Minor

Development of new course curricula for the Granite Heavy Civil Minor (GHCM). This course revolves around underground utility construction and is designed to provide students with knowledge that neither the Construction Management nor Civil Engineering Departments provide. The additional curricula are comprised of underground construction safety, materials, and construction methods that will provide GHCM students with a competitive advantage when applying for jobs in heavy civil construction, further incentivizing the minor program. This senior project utilizes PowerPoint presentations that can either comprise an entire course or be added to existing courses as supplemental information.

## 1. Assessing a Need

Do you feel the Heavy Civil and Construction Management/Civil Engineering curricula prepare students to work with underground utilities?

17 responses



## Project Progression

## 2. Interest Surveying

## 3. Production of Curricula and Deliverables

Underground Utility Markings

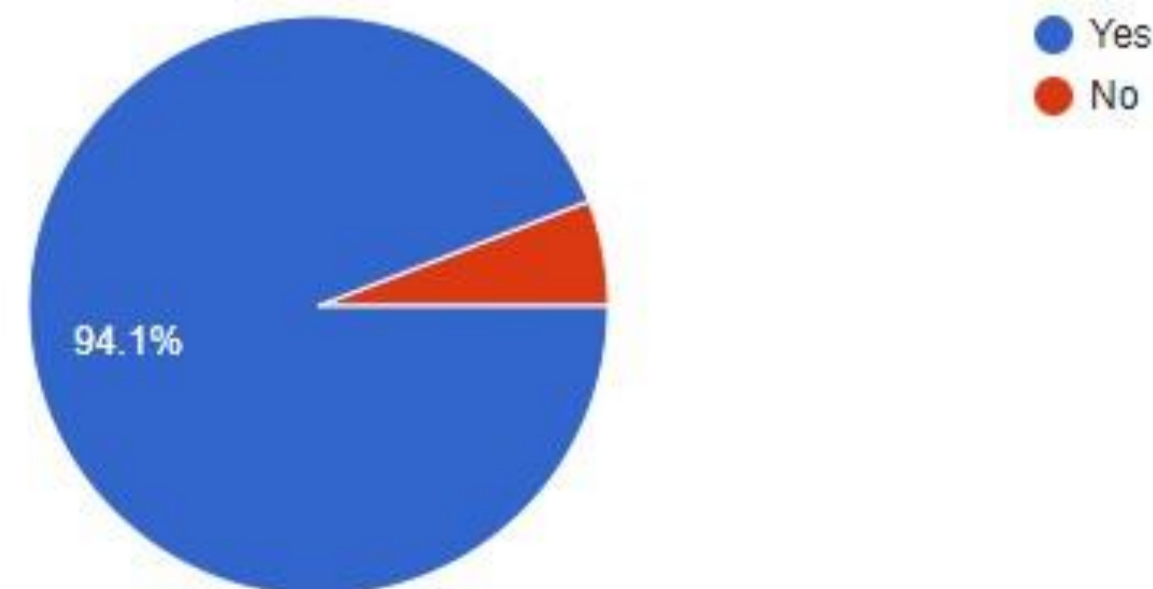
Working Near Underground Utilities

Underground Utility Materials and Methods

Course Semester Schedule

Would a course on managing 811 Tickets, utility marking, and underground utility construction and materials enhance the Heavy Civil Minor?

17 responses



- The Granite Heavy Civil Minor (GHCM) currently poses numerous schedule conflicts for Civil Engineers and Construction Management majors.
- Students have been faced with the choice of either taking an additional quarter at Cal Poly in order to complete the Minor or dropping it altogether.
- Implementing an additional course at a different time that could supplement one that is currently offered would allow more students to meet the Minor requirements and attract more interest in the program.
- Underground construction is a large portion of heavy civil construction that is not thoroughly covered in the curricula offered in the GHCM, nor is it covered extensively in the Construction Management curricula.