Advanced Concrete Course for Cal Poly CM Department

Topics included in Course

- Components & Basics
- Site Logistics & Prep
- Equipment & Formwork
- Ordering & Testing
- Scheduling & Estimating
- Structural Concrete
- Mat Pours
- Plan Reading & Detailing

This senior project provides a solution to the Construction Management Department at Cal Poly, San Luis Obispo whose curriculum lacks an individual Concrete course. With Concrete being one of the most used building materials worldwide, this course will help immensely. The goal of this project is to fill the gap with an Advanced Concrete Course that is prepared and ready to be introduced to future students. The course has an emphasis on outside research learning – where the student gets to become the instructor. Carefully thought out and executed lecture materials are included in the course. Lecture slides give background information and a basis to begin on, and an outside project and presentation provides new knowledge into the class. The course covers several topics that any student that wants to be a part of the concrete industry, or just wants know about concrete can benefit from. This course is in supplement to a previous 2017 Cal Poly senior project that gauged interest in students wanting to acquire a Concrete Industry Management Minor. This class was created to supplement and compliment the current Cal Poly curriculum for Construction Management Majors.

Comprehensive Final Project

From an Actual Project, Groups will have to:

- Create a Schedule & Estimate
- Choose Equipment
- Choose Formwork
- Create a Site Logistics Plan
- Create a Safety & Health “One-Sheet”
- Create a Truck Route
- Create an Ordering Dialogue

Class Structure

- Topic Introduced
- Topic Discussed

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- Group Presentation on Outside Research of Topic

Word Cloud based on Industry Suggestions

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