

Concrete Industry Management in Higher Education



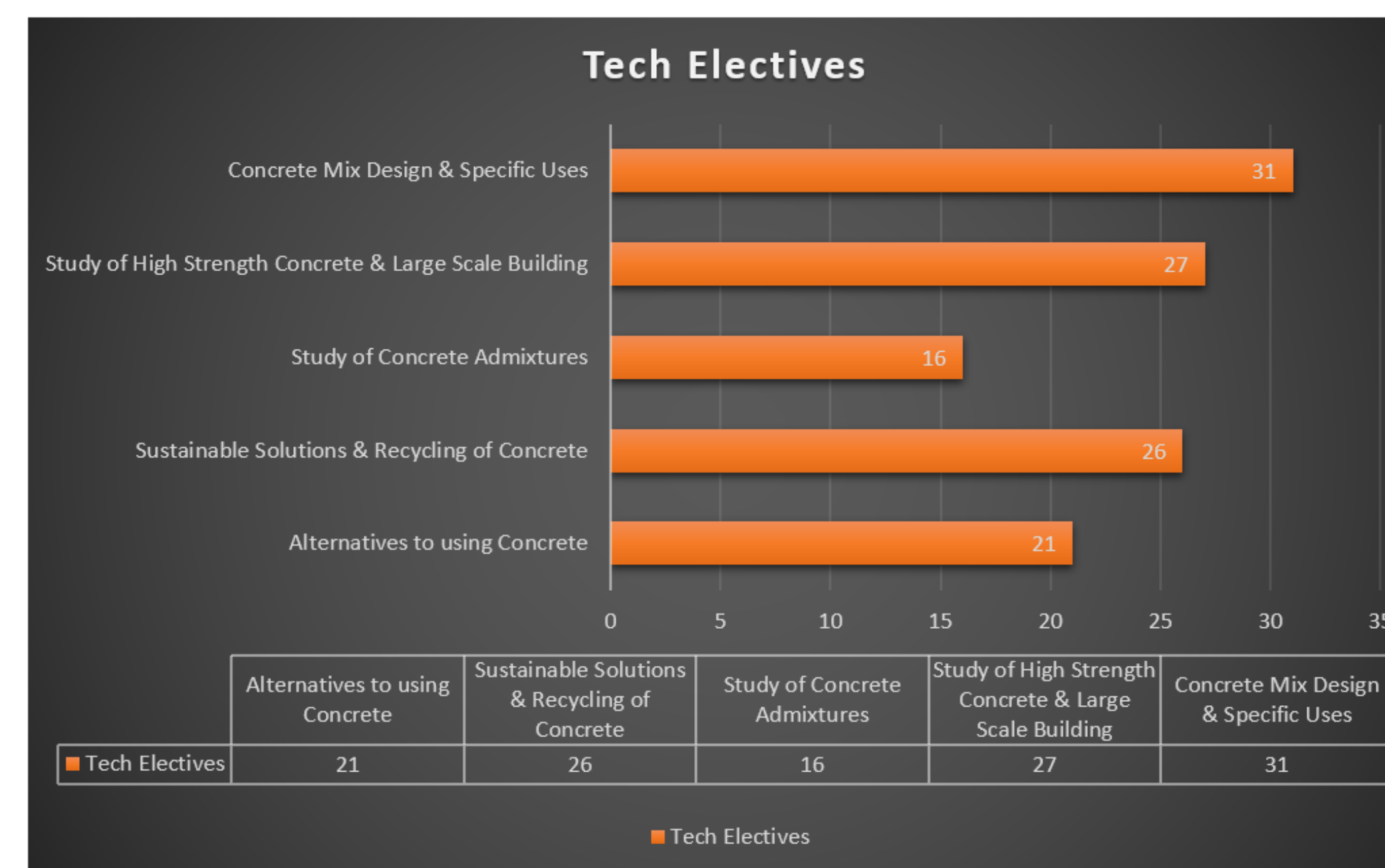
This Paper focuses on the concrete industry and programs that prepare college students for their future in it. The idea to make Concrete Industry Management first came along at Middle Tennessee State University in 1996, but only a few other programs have started at other schools since then. These programs focus on skills for graduates to enter the concrete industry in production, project management, sales, and marketing. They are structured similar to the way Construction Management programs are structured and have similar courses like estimating, sustainability, and project management as well. Based on survey responses students are interested in taking more concrete courses and expanding their knowledge into the concrete industry.

Irl Barajas
itbaraja@calpoly.edu
(209)352-3453
Cal Poly Construction Management
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Middle Tennessee State University

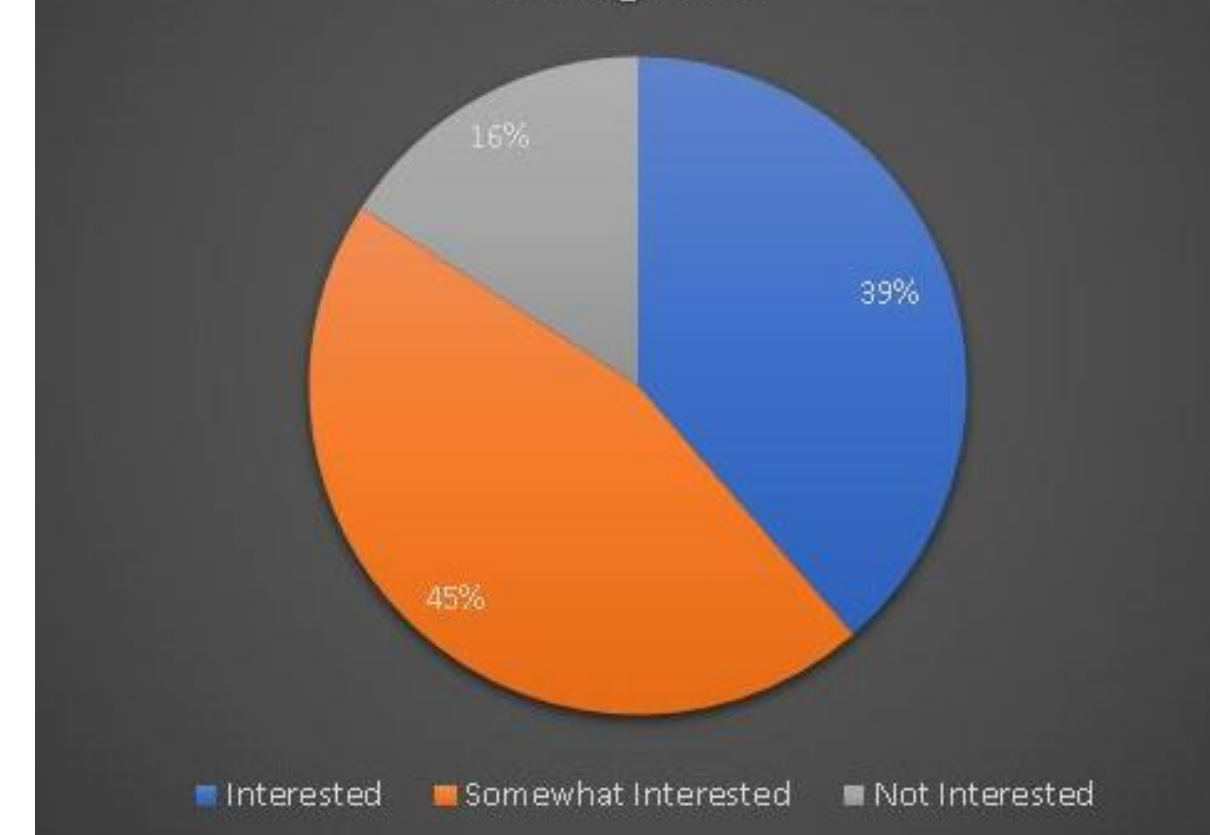
- Started 1996
- More than 360 students enrolled in the program now
- Concrete majors rank in top 3 highest paid graduates every year since programs inception
- Jobs: sales and marketing, operations and management, students with more technical skills choose quality control.



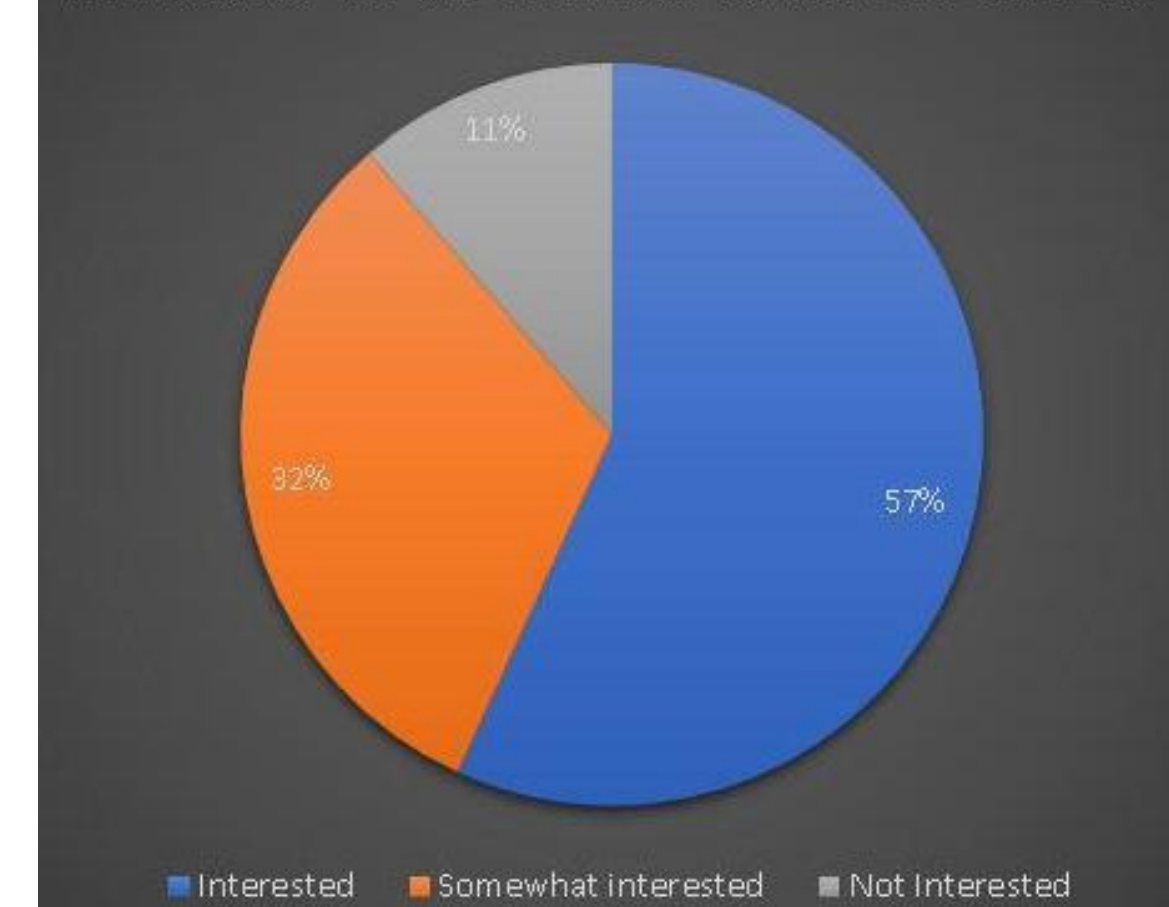
Other interests in technical electives (suggested in comments from students)

- Creating Concrete Shop Drawings
- Rebar Use and Design
- Concrete Plan Reading & Formwork Production

Interest in Concrete Solutions Minor Program



Interest in Concrete Tech Electives



Chico State

Concrete Industry Management Curriculum

- Concrete Project Estimating and Bidding
- Concrete Repair and Restoration
- Sustainability and the Built Environment
- Concrete industry internship
- Concrete Facilities Management
- Concrete Capstone Project
- Legal Aspects of Construction
- Project Management
- Operations Management
- Decorative Concrete Fixtures and Surface
- Principles of Soil Mechanics and Foundations

Intro Job Positions

- Production and project management
 - Ready Mixed Concrete Plants
 - Precast / Prestressed Plants
 - Quarry Operations
 - Concrete projects managers
 - Concrete subcontracting
- Sales and Marketing
 - Concrete and Concrete Products
 - Cement and Admixtures
 - Equipment
 - Contracting Services

