



# Technical Elective Options for Concrete Industry Management Program

## Technical Elective Group 1

**(Choose 1 Course from the following):**

- GEOL 1410 – Physical Geology – Coarse and fine aggregates (i.e. rock and sand) are integral ingredients in concrete mixes. Students who are interested in careers in aggregate operations or mining operations should consider this elective.
- TECH 3364 – Quality Assurance – Students who are interested in careers in quality management and quality control of concrete products should consider this elective.
- CSM 2342 – Construction Materials and Processes – Students who are interested in careers in vertical concrete construction, and understanding how concrete interacts with other building materials in the total construction project should consider this elective.
- CSM 3363 – Heavy, Civil and Highway Construction Systems – Concrete is an integral component of civil and highway construction. Students who are interested in careers in highway and infrastructure construction should consider this elective.
- CSM 3366 – Soils and Foundations – Understanding how soils interact with concrete structures is applicable to students considering careers in vertical concrete construction and infrastructure construction.

**(Check Prerequisites)**

## Technical Elective Group 2 – Sustainability Elective (Choose 1 Course from the following):

- TECH 2340 – Environmental Technology I – Environmental and regulatory compliance issues are at the forefront of concrete material production. Students who are interested in careers in aggregate production and management, cement production and management, ready mix production and management, and precast concrete production and management should consider this elective.
- CSM 4368 – Sustainable & Lean Construction Practices – Students who are interested in careers in vertical concrete construction, and understanding how sustainability of concrete production and construction practices integrate into the overall building construction process should consider this elective.

**(Check Prerequisites)**

## Technical Elective Group 3 – Safety Elective (Choose 1 Course from the following):

- TECH 4380 – Industrial Safety – Safety processes and compliance differ from the plant environment to the construction jobsite. Students who are interested in careers in aggregate production and management, cement production and management, ready mix production and management, and precast concrete production and management should consider this elective.
- CSM 4380 – Construction Safety – Students who are interested in careers in vertical concrete construction and understanding safety requirements on the construction project site should consider this elective.

**(Check Prerequisites)**