CONCRETE INDUSTRY MANAGEMENT (CIM)

CIM 3330. Concrete Construction Methods.
This course covers forming, shoring, placing and reinforcing operations. Transporting, placing, consolidating, finishing, jointing and curing concrete for cast-in-place foundations, pavements, slabs on ground, structural frames, and other structural members are studied. Other topics include waterproofing concrete foundations and erecting precast concrete members. Corequisite: CIM 3420 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 3340. Understanding the Concrete Construction System.
A detailed look at how the concrete construction industry works. The course includes a review of model building codes, building officials and their functions, concrete industry codes and standards, concrete construction processes, quality assurance systems, contract documents, estimating, construction scheduling and concrete construction markets. Prerequisite: MATH 2328 with a grade of "C" or better. Corequisite: CIM 3420 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 3366. Applications of Concrete in Construction.
This course is a detailed study of the many uses of concrete in the construction of buildings, pavements and other facilities. Emphasis will be placed on the advantages, disadvantages, and unique problems faced by materials suppliers, contractors and design professionals when concrete is chosen for specific applications. Prerequisite: CIM 3330 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
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This course examines effects of concrete-making materials (aggregates, cements, admixtures, etc.) on the properties of fresh and hardened concrete. Concrete mixture proportioning calculations and statistical analysis of strength tests are also studied. Prerequisite: CHEM 1335 with a grade of "C" or better.
4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 4310. Senior Concrete Lab.
This course provides students with an opportunity to further develop their technical and laboratory knowledge and pursue a project of individual interest. A formal report/presentation will be required at the conclusion of the course. Prerequisites: CIM 3366 and CIM 3420 both with grades of "C" or better.
3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 4330. Management of Concrete Products -- Ordering and Scheduling.
This course is designed to provide the student with a basic understanding of managing the ordering and delivery process common to all concrete products. Emphasis will be in planning, organizing and controlling at both the first-line supervisory and managerial levels. Prerequisite: CIM 3340 with grade of "C" or better. Corequisite: MGT 3303 with grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 4340. Concrete Problems: Diagnosis, Prevention and Dispute Resolution.
Course involves diagnosing/preventing problems related to concrete production, testing, construction and performance. Students learn to identify causes of fresh and hardened concrete problems, i.e. fast and slow setting, air content variations, low strength, cracking and scaling. Pre-job conferences and dispute resolution methods are examined. Prerequisite: CIM 3366 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 4398. Capstone.
This course covers the business aspects of the concrete industry with appropriate application to the student’s career interests and builds upon the technical and practical industry components learned in previous courses. The final project will be presented to an industry committee. (WI) Prerequisites: ACC 2362 with a grade of "D" or better and CIM 4330 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 4499. Capstone II.
A continuation of CIM 4398, students continue developing a business plan with emphasis on the technical aspects of the concrete industry, building upon previous coursework. The final presentation will be made to an industry panel. A portion of the course is a seminar with guest speakers from the concrete industry. Prerequisite: CIM 4398 with a grade of "D" or better.
4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter

CIM 4350. Management of Concrete Products -- Curing and Finishing.
This course focuses on the process of concrete finishing, including the tools and techniques used to achieve the desired finish, and the curing process to enhance the strength and durability of the concrete. Prerequisites: CIM 3366 and CIM 3420 both with grades of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Dif Tui - Science & Engineering
Grade Mode: Standard Letter