

MASTER OF ENGINEERING IN CONSTRUCTION ENGINEERING AND MANAGEMENT

The Master of Engineering in Construction Engineering and Management is a coursework-only, professionally-oriented degree program that provides students with the knowledge and background that is essential to making decisions at site, company, industrial, and sector levels. Students learn how to plan and schedule projects, estimate and control costs, make economic decisions, administer contracts, organize construction sites, manage construction equipment, analyze productivity, optimize construction activities, plan and manage real estate developments, and address legal problems.

Typically, candidates for this degree have bachelor's degrees in Engineering or Architecture, but individuals in career transition who complete IIT's Certificate Program in Construction Management can also be admitted in furtherance of their education.

Curriculum

Code	Title	Credit Hours
Required Core Courses		(15)
CAE 570	Legal Issues in Civil Engineering	3
CAE 571	Lean Construction and Control	3
CAE 574	Economic Decision Analysis in Civil Engineering	3
CAE 577	Construction Equipment Management	3
CAE 572 or CAE 595	Construction Business Operations and Cost Accounting & Control Current Issues in the Construction Industry	3
Elective Courses		(15)
Select 15 credit hours from the list of courses below: ¹		15
CAE 471	Construction Planning and Scheduling	3
CAE 472	Construction Site Operation	3
CAE 473	Construction Contract Administration	3
CAE 474	Introduction to Building Information Modeling	3
CAE 569	Construction Methods, Cost Estimating, and Project Budgeting	3
CAE 573	Construction Management with Building Information Modeling	3
CAE 575	Systems Analysis in Civil Engineering	3
CAE 576	Applications of Unmanned Aerial Vehicles (UAVs or "Drones") for Construction Projects	3
CAE 578	Construction Claims Management	3
CAE 579	Real Estate Fundamentals for Engineers and Architects	3
CAE 587	Commissioning of Construction Projects	3
CAE 597	Special Problems	0-4
Total Credit Hours		30

¹ Course substitutions can be made with advisor approval