

Course List for MS degree in Construction Engineering and Management

Core Courses

12 units (minimum)

EGCE 465	Planning and Control of Const. Projects (3)
EGCE 534	Construction Methods and Equipment for Buildings (3)
EGCE 538	Construction Methods and Equipment for Heavy Construction Engg.(3)
EGCE 556	Construction Cost Control and Planning (3)
EGCE 563	Advanced Prestressed and Reinforced Concrete Design (3)

Technical Electives

+12 units (minimum)

EGCE 463	Precast and Prestressed Concrete Design (3)
EGCE 466	Public Transit System Planning and Operations (3)
EGCE 501	Analytical Methods for the Design of Civil Engineering Systems (3)
EGCE 517	Theory of Elasticity (3)
EGCE 533	Matrix Methods of Structural Analysis (3)
EGCE 539	Preconstruction Design and Evaluation (3)
EGCE 540	New Technology and Innovation in Construction Engg. (3)
EGCE 550	Major Commercial Project Development Management (3)
EGCE 557	Total Cost Management of Capital Project (3 units)
EGCE 575	Expert Systems in Construction Engineering (3)
Manag 441*	Labor-Management Relations (3)
Manag 444*	Project Management (3)
Manag.516*	Org. Theory and Manag. Operations (3)
EGCE 597	Project (1-6)
EGCE 598	Thesis (6)
EGCE 599	Independent Research (1-6)

Notes

The remaining units will be from advisor approved electives

* Requires approval from Department Chair