

Course List for MS degree in Structural Engineering

Core Courses (15 units minimum)

EGCE 510	Finite Element Methods (3)
EGCE 517	Theory of Elasticity (3)
EGCE 533	Matrix Methods of Structural Analysis (3)
EGCE 563	Advanced Prestressed and Reinforced Concrete Design (3)
EGCE 566	Design of Tall Buildings (4)

Technical Electives (9 units minimum)

EGCE 493	Structural Systems for Buildings (3)
EGCE 509	Theory of Plates and Shells (3)
EGCE 532	Earthquake Engineering (3)
EGCE 544 [@]	Advanced Foundation Engineering (3)
EGCE 549	Theory of Elastic Stability (3)
EGCE 562 [@]	Space Structures (3)
EGCE 598	Thesis (6)
EGCE 599	Independent Research (1-3)
EGCE 597	Project (1-6)

[@] Approval pending

Math-Oriented courses 6 units

6 units from either set A (or) set B

Set A

EGGN 403	Numerical Analysis (3)
AND	
EGCE 501	Analytical methods for the Design of Civil Eng Systems (3)
OR	
EGME 438	Analytical methods in Engineering (3)
OR	
EGME 538	Advanced Engineering analysis (3)

Set B

Equivalent advisor approved 6 units of coursework