

UNIVERSITY OF NEW MEXICO

Department of Civil Engineering

Course Requirements

for

Master of Science in Civil Engineering

STRUCTURAL ENGINEERING

STRUCTURAL MECHANICS

<u>Required Courses</u>		<u>Credit Hours</u>
CE 501	Advanced Mechanics of Materials	3
CE 502	Finite Element Methods in Solid Mechanics	3
CE 520	Introduction to Structural Dynamics	3
CE 562	Foundation Engineering I (structural engineering majors only)	3
CE 691	Seminar (must be taken twice, one credit each time)	2
	Course Only Option (+7 Electives)	(+21)
<i>or</i>		
CE 588	Masters Project (+5 Electives)	3 (+15)
<i>or</i>		
CE 599	Thesis (+4 Electives)	6 (+12)
 <u>Elective Courses</u>		
MATH 312**	Partial Differential Equations for Engineering	3
ME 512	Continuum Mechanics	3
ME 540	Elasticity I	3
CE 503	Composite Materials	3
CE 506	Prestressed Concrete	3
CE 508	Analysis and Design of Plates and Shells	3
CE 511	Reinforced Concrete Design	3
CE 518	Theory of Structural Stability	3
CE 521	Earthquake Engineering	3
CE 524	Structural Design in Metals	3
CE 548	Fuzzy Logic and Applications	3
CE 551	Problems	3
CE 564	Rock Mechanics	3

Other elective courses may be approved by the major advisor.

**Available for graduate credit except for graduate majors in the department. You must submit a Graduate Credit Authorization card to the Records Office.

