School of Civil & Environmental Engineering M.Eng Proposal Form – **Structural Science**
(a new form must be submitted when changes are made)

NAME: _____ ADVISOR: _____ DATE: _____

SUPPORTING AREA: _____

A Minimum of two (2) project (p) courses must be taken **MAJOR AREA ELECTIVES (Minimum of 15 credits)**[1]		**Cr.**	**Fall**	**Spr**	**Comments**
CEE 6720	Finite Element Analysis ***(p)***	3	X		
TAM 6100	Methods of Applied Mathematics I	3	X		
TAM 6630	Solid Mechanics I	4	X		

SUPPORT ELECTIVES (Maximum of 6 credits)[2]		**Cr.**	**Fall**	**Spr**	**Comments**

SEMINARS (Indicate if Participatory or Non-Participatory)[3]		**Cr.**	**Fall**	**Spr.**	**Comments**
CEE 6070	Civil Infrastructure Seminar	(1)	X		Non-participatory

ALL OTHER COURSES		**Cr.**	**Fall**	**Spr.**	**Comments**

Total Credits for all Fall & Spring Courses[4] _____ _____

TOTAL M.Eng. PROGRAM CREDIT HOURS: _____ (must equal or exceed 30)

APPROVALS: Advisor _____ Date _____

MEng Chair _____ Date _____

See notes on back. Updated proposals should identify what changes were made and why.

NOTES:

[1] CEE 6720, TAM 6100, and TAM 6630 are required courses to be taken in fall term.

Typical additional major courses in structural science are drawn from the following list:

CEE 3720: Intermediate Solid Mechanics (Fall)
CEE 4750/TAM 6550: Composite Materials (Spring)
CEE 6710: Structural Mechanics (Fall)
CEE 6075a: Stochastic Simulation Methods in Engin. And Bayesian Computation (Spring)
CEE6075b: Scientific Supercomputing (Spring)
CEE6290: Advanced Numerical Methods for Engineers (Fall)
CEE 6730: Design of Concrete Structures (Spring)
CEE 6750: Concrete Materials and Construction (Spring)
CEE 6780: Structural Dynamics and Earthquake Engineering (Spring)
CEE 7700: Engineering Fracture Mechanics ***(p)*** (Spring)
CEE 7750: Nonlinear Finite Element Analysis I ***(p)*** (Spring)
CEE 7790: Nonlinear Finite Element Analysis II ***(p)*** (Spring)
CEE 7710: Stochastic Mechanics in Science and Engineering (Fall)
CEE 7720: Random Vibrations
CEE 7770: Advanced Topics in Finite Element Analysis (Spring)
TAM 7680: Elastic Waves in Solids (Fall)
TAM 6110: Methods of Applied Mathematics II (Spring)
MSE 6020: Elasticity, Plasticity, and Fracture (Spring)
CEE 6760/TAM550/MAE-MSE/6550: Advanced Composite Materials (Spring)

[2] Support areas may include any engineering or non-engineering subject area that can be reasonably justified as supporting the major area, a well-defined career objective, or plans for a PhD. Typical supporting areas include theoretical and applied mechanics, applied mathematics, computer science, fluid mechanics, and engineering management.

[3]Credit for seminars count toward the MEng degree only if the format of the seminar is "participatory" (i.e. requires more than attendance).

[4] All courses should be listed whether or not they count in the MEng program. No more than 20 credits per semester (MEng and non-MEng) may be taken except by petition to the College Master of Engineering Committee.