Plan of Study

Department of Civil and Environmental Engineering Master of Science in Civil Engineering

Specialization in Structures

The Plan of Study is a contract for the degree of Master of Science in Civil Engineering at the University of Illinois at Urbana-Champaign. All students admitted to the Structures Program are required to submit a Plan of Study. This plan assumes the completion or demonstrated proficiency in the following courses (and all prerequisites assumed by these courses):	Student's Name (please type or print)	
CEE 460 Steel Structures, I CEE 461 Reinforced Concrete, I CEE 470 Structural Analysis	Student ID Number	Anticipated Degree Date
Graduate credit will be granted for CEE 470, but not for CEE 460 or CEE 461. CEE 470, if taken, should be listed on the Plan of Study.	E-mail Address	
A revised program can be proposed at any time prior to graduation by submitting a new Plan of Study for approval. You will be eligible to graduate only when the courses you have successfully taken (along with any thesis requirements) match those listed on your approved Plan of Study.	Mailing Address	
• • •	Academic Advisor	
Course Selections Core Courses III The recommended core courses are:	Thesis Option (check one	Thesis Non-Thesis
CEE 462 Steel Structures, II CEE 463 Reinforced Concrete, II CEE 471 Structural Mechanics CEE 472 Structural Dynamics CEE 570 Finite Element Methods If you elect not to take a listed core course, please explain (e.g. indicate proficiency in that subject) on the reverse side under Notes and Comments. Other Courses The program, including core courses, must total 36 hours (HR) of graduate credit for the non-thesis option and 32 hours of graduate credit (up to 8 of which can be CEE 599M) for the thesis option. Courses can be selected from the pre-approved list (see reverse). Proposed courses not on the pre-approved list must be justified on the reverse side of this form under Notes and Comments and are subject to approval by the Structures Faculty. Any undergraduate course taken for credit (A-F) will count towards your GPA but not towards the graduate credit requirements.	Course Number	Credit (HR)
Required Signatures	Total Cred	dit

	[for office use only]
Student	Date
Academic Advisor	Date

Notes on filling out the Plan of Study

List any transfer courses by course number at offering institution (these courses must be approved, by petition, by the Graduate College). A brief description of these courses should be included on the reverse side under *Notes and Comments*. This form must be filled out in ink.

Pre-Approved Courses

CEE Structures Courses:

- 467 Masonry Structures
- 468 Prestressed Concrete
- 469 Wood Structures
- 491 Decision and Risk Analysis
- 560 Steel Structures, III
- 572 Earthquake Engineering
- 573 Structural Dynamics, II
- 574 Probabilistic Loads and Design
- 575 Fracture and Fatigue
- 576 Nonlinear Finite Elements
- 598 Special Topics

Other CEE Courses:

- 401 Concrete Materials
- 483 Soil Mechanics and Behavior
- 484 Applied Soil Mechanics
- 580 Excavation and Support Systems

Theoretical and Applied Mechanics Courses (TAM):

- 424 Mechanics of Structural Metals
- 427 Mechanics of Polymers
- 428 Mechanics of Composites
- 456 Experimental Stress Analysis
- 470 Computational Mechanics
- 518 Wave Motion
- 524 Micromechanics of Materials
- 541 Mathematical Methods, I
- 542 Mathematical Methods. II
- 545 Advanced Continuum Mechanics

TAM Courses (continued):

- 551 Solid Mechanics, I
- 552 Solid Mechanics, II
- 554 Plasticity
- 555 Fracture Mechanics
- 574 Advanced Finite Element Methods

Mechanical Science and Engineering Courses (ME):

- 530 Fatigue Analysis
- 532 Fracture Resistant Design
- 570 Nonlinear Solid Mech Design

Material Science Courses (MSE):

- 406 Thermal-Mech Behavior of Materials
- 440 Mechanical Behavior of Materials
- 540 Advanced Mechanical Behavior

- 442 Intro Partial Differential Equations
- 446 Applied Complex Variables481 Vector and Tensor Analysis
- 487 Advanced Engineering Math
- 488 Math Methods in Engineering
- 556 Methods of Math Physics, I
- 557 Methods of Math Physics, II

Computer Science and Engineering Courses (CSE):

- 401 Numerical Analysis
- 510 Numerical Methods for PDEs
- 511 Iterative & Multigrid Methods
- 512 Parallel Numerical Algorithms

Notes and Comments

(Include descriptions of transfer courses and justification of deviations from the pre-approved course list. Use additional sheets if necessary.)

Review Comments

(This section is reserved for comments by the faculty advisor or the structures review committee.)