Joint MArch – MS in AS Degree Program in Structures
Building Performance Program
School of Architecture

The Program
The School of Architecture offers a joint degree program including the M.Arch. and MS in AS degrees with Structures Concentration. Successful completion of this joint degree program will lead to earning two degrees (MArch and MS in AS) as well as recording of Structures as a Concentration on the student's transcript under the MS in AS degree.

To complete the program, candidates must successfully complete all core requirements of both degrees, earn a minimum of 82 graduate credit hours, and meet other degree requirements such as minimum GPA, minimum grade in core courses, etc.

Pre-requisite subjects for the Structures Concentration include the following: calculus I and II; statics and dynamics; mechanics of materials; at least one course in structural steel design and reinforced concrete design. Students without these pre-requisites may enter the Structures Concentration upon completion of their pre-requisite courses.

Students interested in participating in the joint degree program with Structures Concentration must be admitted to the School of Architecture's MArch program; register their intent to enter the Structures Concentration with the School's Graduate Office prior to the start of their first semester in their degree program and complete the following required 27 credit core credit hours in architectural structures.

Required Core Structures Courses		Credit Hours
Arch 550	Design of Steel and Reinforced Concrete Structures II	4
Arch 551	Structural Analysis	4
Arch 552	Soil Mech and Foundations	3
Arch 553	Advanced Reinforced Concrete Design	3
Arch 554	Advanced Steel Design	3
Arch 556	Advanced Structural Planning	4
Arch 560	Advanced Structural Analysis	3
Arch 557	Seismic Analysis and Design	3
Total Core Credit Hours		27

Sample Course Plan for the Joint MArch-MS in AS degree Program with the Structures Concentration[1, 2, 3, 4]

FIRST SEMESTER		SECOND SEMESTER	
ARCH-551: Structural Analysis	4	ARCH-553: Adv Reinforced Concrete Design	3
ARCH-550: Reinforced Concrete Design	4	ARCH-552: Soil Mech & Foundations	3
ARCH-57X: Design Studio[5]	6	ARCH-57X: Design Studio[5]	6
ARCH-577: Theories of Architecture[5]	4	ARCH-517: Modern Architectural History, 1850-Present[5]	3
		ARCH-501 Architectural Practice[5]	3
Total Credit Hours	18	Total Credit Hours	18
THIRD SEMESTER		FOURTH SEMESTER	
ARCH-537: Environmental Control Systems II[5]	4	ARCH-556: Advanced Structural Planning[5, 6]	4
ARCH-57X/575: Design Studio or Integrative Design Studio[5]	4	ARCH-57X/575: Design Studio or Integrative Design Studio[5]	6
ARCH-557: Seismic Design of Buildings	6	ARCH-560: Advanced Structural Analysis	3
ARCH-554: Advanced Steel Design	3	Arch 538IN: Integr Des & Constr Bldgs[5]	4
Total Credit Hours	17	Total Credit Hours	17
FIFTH SEMESTER			
Electives[7]	12		
Total Credit Hours	12		
Minimum Total Overall Credit: 82 hours			

[1] This is a sample schedule only
[2] Students must obtain approval from their advisor before registering for each semester
[3] Students missing ARCH-433 (Design of Steel and Reinforced Concrete Structures I) or its equivalents must take this course during their first [Fall] semester and postpone taking ARCH-550, ARCH-553, and ARCH-554 to later semesters
[4] Any exceptions to the required courses must be approved in writing by the student's Structures Faculty Advisor in advance
[5] Core course for the MArch degree
[6] Students in the Structures Concentration must take ARCH-556 in lieu of ARCH-536
[7] Recommended electives:
ARCH-558: Structural Wood Design (3 hours)
ARCH-559: Structural Masonry (3 hours)
ARCH-555: Prestressed Concrete Design (3 hours)

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