

Structures Concentration School of Architecture



Description:

The School of Architecture offers a Structures Concentration under its MS in AS degree program. Completion of this in-depth plan of study will result in recording of Structures as a Concentration on the student's transcript under the MS in AS degree.

Pre-requisite subjects for the Structures Concentration include the following: calculus I and II; statics and dynamics; mechanics of materials; minimum of one course in structural steel 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 Structures Concentration must be admitted to the School of Architecture's MS in AS degree program; register their intent to enter the Structures Concentration with the School's Graduate Office prior to completing their first semester in their degree program and complete 27 graduate credit hours of architectural structures courses from the required courses list below. Students already in the MArch degree program may fill out a [petition form](#) for adding the MS in AS degree with Structures Concentration to their program.

Required Core Courses		Credit Hours
Arch 550	Design of Steel and Reinf Conc Structures II	4
Arch 551	Structural Analysis	4
Arch 552	Soil Mechanics 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 Design	3
Total Required Credit Hours		27

Please see reverse for a sample course plan for the Structures Concentration.

Sample Course Plan for the Structures Concentration
within the MS in AS degree Program¹

FIRST SEMESTER		SECOND SEMESTER	
ARCH 550: Design of Steel and Reinf Conc Structures II	4	ARCH-554: Advanced Steel Design	3
ARCH-551: Structural Analysis	4	ARCH-556: Advanced Structural Planning	4
ARCH-552: Soil Mech & Foundations	3	ARCH-553: Adv Reinforced Concrete Design	3
ARCH-557: Seismic Design of Buildings	3	ARCH-560: Advanced Structural Analysis	3
Elective ²	2	Elective ²	3
Total Hours	16	Total Hours	16
Total Overall Credits: 32 hours			

¹ Students must obtain approval from their advisor before registering for each semester

² Recommended electives:

Arch-558: Structural Wood Design

Arch-559: Structural Masonry

Arch-555: Prestressed Concrete Design

Arch-595IN: Integrated Design and Construction of Buildings