

MS ARCE Academic Flowchart
Blended (4+1) Program

4th Year			5th Year		
Fall	Winter	Spring	Fall	Winter	Spring
Seismic Analysis & Design ARCE 483 (3) [ARCE 372, 412]	Concrete Design Laboratory ARCE 452 (3) [ARCE 257, 372, 444, 451]	Intro to Engineering Surveying BRAE 237 (2) {MATH 119 or equiv.}	Advanced Structural Mechanics ARCE 501 (3)	Nonlinear Structural Behavior II ARCE 503 (3)	Structural Systems Behavior ARCE 511 (3)
Reinforced Concrete ARCE 444 (3) [ARCE 302, 371]	Interdisc. Capstone Project ARCE 415 (4) [*]	GE (4)	Nonlinear Structural Behavior I ARCE 502 (3)	Finite Elements for Building Structures ARCE 504 (3)	Masters Project ARCE 598 (3) or Directed Elective **
Timber/Masonry Design Lab ARCE 451 (3) [ARCE 257, 304, 305 and 371]	Fluid Mechanics I ME 341 (3) [ME 212/ARCE225]	GE (4)	Architectural Design ARCH 551 (5)	Architectural Design ARCH 551 (5) ***	Directed Elective (3)
Architectural Engineering Building Systems ARCE 476 (3) [Senior standing]	Statistics STAT 312 (4) or STAT 321 (4) [MATH 142]	GE (4)	Masters Project ARCE 598 (3) or Directed Elective**	Masters Project ARCE 598 (3) or Directed Elective**	
Evaluation of Cost Alternatives CM 232 (3) [MATH 142 or 182] or Engineering Econ IME 214 (3) [MATH 241]					
6	3	0	14	14	9
				TOTAL:	45 minimum

Notes:

1

Legend:

Course Title	
Course # (Units)	Undergraduate Curriculum
	MS Curriculum

This curriculum diagram illustrates the recommended programming of courses for a student enrolled in the blended masters program.

Students admitted to the graduate program may commence studies after filing for a post baccalaureate change of objective. It is intended that the curriculum diagram be used in conjunction with, and not supersede, the University catalog.

Verify availability of courses with current University course schedule.
Prerequisite courses are identified in the University catalog and must be completed in advance. A grade of C- or better must be earned in every ARCE course which is a prerequisite for another ARCE course. Students must complete a working formal study plan after one quarter of enrollment in the program.

The MS ARCH with specialization in structural engineering course work includes ten (10) units of ARCH 551, ARCE 501, ARCE 502, ARCE 503, ARCE 504, ARCE 511, four (4) directed electives, and nine (9) units of ARCH 598.

* ARCE 453 may be substituted for ARCE 415 to fulfill the interdisciplinary senior project requirement.

** A directed elective can be substituted for ARCE 598 if pursuing the comprehensive exam option.

*** 5 units of ARCH 551 may be replaced by 5 units of advisor-approved technical electives to allow students flexibility to collaborate with faculty pursuing teacher-scholar research, to pursue technical electives focused on their masters project, or to broaden their masters coursework beyond the traditional curriculum where appropriate.

Nine (9) 400-level ARCE units count towards both the BS and MS degrees when enrolled in the ARCE blended program. Students in the blended program take 36 units in addition to the requirements for the BS-ARCE to obtain an MS-ARCE.

