USC University of Southern California

PROGRESSIVE MASTER'S DEGREE
PROGRAM COURSE PLAN

USC SCHOOL	Architecture
ACADEMIC DEPARTMENT	Architecture
GRADUATE PROGRAM	Master of Building Science
POST CODE	861
TERM EFFECTIVE DATE	Spring 2021

PROGRAM DESCRIPTION

A brief description of the graduate program.

Building Science at the USC School of Architecture recognizes that exemplary architecture requires innovative responses to natural forces. The integration of the study of building sciences with knowledge of current practice and new technologies creates synergistic and holistic architectural design that satisfies performative goals.

Building science strengthens architecture through technology. The Master of Building Science program addresses the need for a new generation of design professionals prepared to bring appropriate technology to the design of a sustainable environment. Within this context, the program emphasizes: 1) The integration of planning, design, and technology to form a coherent, interdependent force for the appropriate construction of urban places; 2) Recognition of the ecological importance of energy-conscious design and construction as well as the social value of places in which natural forces and systems are utilized rather than suppressed; 3) The development of research and design methods suited to the complexity of building in urban settings and effective in the use of extensive information.

COMMON BACHELOR DEGREE PROGRAM PATHWAYS

A list of common bachelor's degrees that undergraduate students pursue in advance of pursuing a progressive degree option with this graduate program. Some programs are restricted to certain majors while others are open to all students.

B.S. Civil Engineering (POST 501)	B.S. Environmental Engineering (POST 953)
B.S. Civil Engineering, Building Science (POST 667)	Bachelor of Architecture (POST 224)
B.S. Civil Engineering, Structural Engr (POST 583)	B.S. Architectural Studies (POST 1284)
B.S. Civil Engineering, Environmental Engr (POST 582)	

PREPARATORY UNDERGRADUATE COURSES

A list of courses at the undergraduate level that prepare students for the graduate program. Required coursework is listed first, followed by recommended courses. If not applicable, this section will be blank.

Dept. Prefix - Course #	Course Title	Required or Recommended	Units
	All undergraduate degree requirements for above mentioned programs		

UNDERGRADUATE COURSES USED TO REDUCE GRADUATE LEVEL UNITS

A list of undergraduate level courses that may be used to reduce the number of graduate level units required for the graduate program. If there are none, that is specified instead.

Dept. Prefix - Course #	Course Title	Units
	The existing undergraduate degree requirements for the above-mentioned programs will reduce 12 units of graduate level electives from the traditional master's degree.	

CORE GRADUATE PROGRAM REQUIREMENTS (27 units required)

A list of all required graduate courses for the graduate program. None of these courses may be used toward satisfying undergraduate degree requirements.

If special exceptions for any of these courses are made by the academic department, the course # is marked with an asterisk (*) and the exception is explained in the "Department Notes" section at the end of this course plan template.

Dept. Prefix - Course #	Course Title	Units
ARCH 511L	Building Systems: Materials and Construction (Fall only) **or**	
ARCH 611	Advanced Building Systems Integration (usually Spring only)	4
ARCH 513L	Seminar: Advanced Structures (Fall only) **or**	
ARCH 613L	Seminar: Structures Research (Spring only)	4
ARCH 515L	Seminar: Advanced Environmental Systems (Fall only) **or**	
ARCH 615L	Seminar: Environmental Systems Research (Spring only	4
ARCH 596	Building Science Thesis Preparation (Fall only)	1
ARCH 692aL	Building Science Thesis (Fall only)	6
ARCH 692bL	Building Science Thesis (Spring only)	6
ARCH 694	Research Publication Methods for Building Science (Spring only)	2

PRE-APPROVED ELECTIVE COURSEWORK

Elective coursework is approved at the discretion of the academic department. Note the following details about the total number and units required of elective coursework.

	TOTAL ELECTIVE COURSES REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
17	**TOTAL ELECTIVE UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE**

TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS

48	**TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE**
12	**TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)**
25	**MINIMUM NUMBER OF GRADUATE UNITS THAT MUST BE AT THE 500 LEVEL OR ABOVE**

NOTES FROM THE DEPARTMENT

This section highlights any unique considerations, exceptions, or requirements for the graduate program. If a program has specific restrictions (courses, majors, etc.), they are detailed below.

The Master of Building Science Progressive Degree is designed for students whose undergraduate degrees are specifically from the list of common bachelor's degree pathways.

Douglas Noble	3/2/2022
Name of Authorizing Master's Program Dean	**Date Approved**

Associate Dean for Academic Affairs / Architecture Dean's Designate for Curriculum

Authorizing Dean's Title