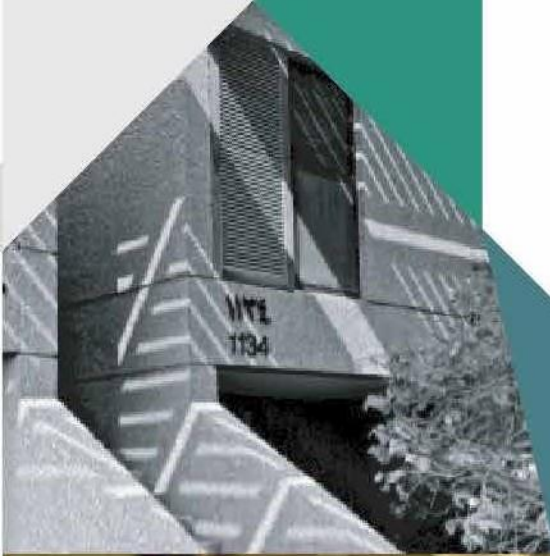




جامعة الملك فهد للبترول والمعادن  
King Fahad University of Petroleum and Minerals

# MASTER OF SCIENCE IN ARCHITECTURE (M.SC. PROGRAM)



رؤية  
VISION  
2030  
المملكة العربية السعودية  
KINGDOM OF SAUDI ARABIA

# PROGRAM STRUCTURE

The Master of Science in Architecture (M.Sc. Arch.) Program offers core and elective courses in two areas: Sustainable Architecture (which is the main focus of the program), and Advanced Design Studies. The course requirements of the program are shown in the table below:

Program Component	Number of Courses	Credit Hours
Core Courses	3	9
Elective Courses	5	15
Graduate Seminar	1	0
Master Thesis	1	6
<b>Total</b>	<b>10</b>	<b>30</b>

# DEGREE REQUIREMENTS OF THE PROGRAM

## Program Core and Required Courses

Students enrolled in the M.Sc. Arch. Program must take the following courses:

Core Courses	
ARC 500	Research Methods in Architecture
ARC 501	Fundamentals of Sustainable Architecture
ARC 502	Integrative Processes in Design and Building Delivery
Required Courses	
ARC 599	Graduate Seminar
ARC 610	Master Thesis

## Program Electives Course

Students are required also to take (5) elective courses (i.e. 15 credit hours) distributed as follows:

- ▶ Three or four elective courses from Architecture Elective courses.
- ▶ One or two elective courses from the Approved Technical Elective courses.

## Architecture Elective Courses

ARC 510	Energy-Efficient Buildings
ARC 513	Architecture and Social Sustainability
ARC 514	Sustainable Neighborhood and Urbanism
ARC 515	Sustainable Building Assessment Systems
ARC 530	Design Theories and Methodologies
ARC 531	Advanced topics in Digital and Parametric Design
ARC 532	Behaviorally Informed Design
ARC 590	Special Topics in Sustainable Architecture
ARC 591	Special Topics in Architectural Design
ARC 606	Independent Research

## Technical Elective Courses

ARE 538	Ventilation and Indoor Air Quality
ARE 539	Renewable Energy Systems for Buildings
CEM 510	Project Planning & Scheduling
CEM 515	Project Quality Management
CEM 517	Project Safety Management
CEM 520	Construction Contracting and Administration
CEM 530	Construction Engineering
CEM 542	Technology and Innovation in Construction & Project Management
CRP 505	Statistical Analysis in Planning
CRP 532	Theory on Urban Form and Design
CRP 514	Geographic Information Systems



## DEGREE PLAN

A typical degree plan for the full-time students is shown in the table below. Maximum duration of study 2.5 years for full-time students, and 5 years for part-time students.

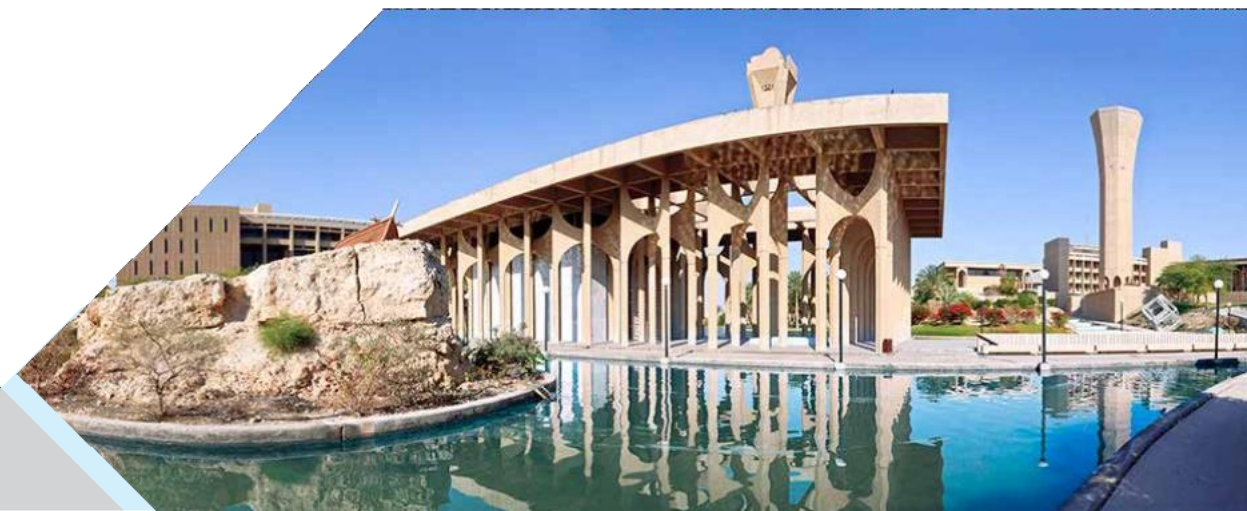
Course No.	Title	LT	LB	CR
<b>First Semester</b>				
ARC 500	Research Methods in Architecture	3	0	3
ARC 501	Fundamentals of Sustainable Architecture	3	0	3
ARC 5XX	ARC Elective	3	0	3
				<b>9</b>
<b>Second Semester</b>				
ARC 502	Integrative Processes in Design & Building Delivery	3	0	3
ARC 5XX	ARC Elective	3	0	3
ARC 5XX	ARC Elective	3	0	3
ARC 599	Graduate Seminar	1	0	0
				<b>9</b>
<b>Third Semester</b>				
ARC 5XX or XX XXX	ARC Elective or Technical Elective	3	0	3
XX 5XX	Technical Elective	3	0	3
ARC 610	Master Thesis	0	0	IP
				<b>6</b>
<b>Fourth Semester</b>				
ARC 610	Master Thesis (Continued)	0	0	6
				<b>6</b>
<b>Total Credit Hours</b>				<b>30</b>

## ADMISSION REQUIREMENTS

Admission to the program requires fulfilling all KFUPM and Deanship of Graduate Studies requirements. In addition, the applicant should have the first professional degree in architecture (B. Arch) or a B.S. in architecture from a program equivalent in length, content and quality to B.Arch. Program at KFUPM, with a Grade-Point Average (GPA) of 3.00 or higher on a scale of 4.00 or equivalent, and a GPA of 3.00 or higher in architecture major.

## UNIQUE OPPORTUNITIES THE PROGRAM OFFERS

- ▶ Unique M.Sc. Architecture program in Saudi Arabia and the Arabian Gulf Region that focuses on sustainable architecture.
- ▶ High quality architecture program, in line with the high standards of KFUPM, a leading university in the Middle East and North Africa.
- ▶ The program addresses the current and future needs of the Kingdom of Saudi Arabia and the Arabian Gulf Peninsula in the important field of architecture and the build environment.
- ▶ The program offers the opportunities to engage in both a research based as well as practice oriented scholarly activities.





Dhahran, Saudi Arabia  
[www.kfupm.edu.sa](http://www.kfupm.edu.sa)



Master of Science in Architecture (M.Sc. Program)

Program inquires: [c-arc@kfupm.edu.sa](mailto:c-arc@kfupm.edu.sa)

(Architecture Department)

Admission inquiries: [gs-admissions@kfupm.edu.sa](mailto:gs-admissions@kfupm.edu.sa)

(Deanship of Graduate Studies)