Bachelor of
Architectural Engineering

First Year

First Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 101	Drafting and Drawing		3
IE 261	Structured Computer Programming		3
MATH 101	Calculus I	MATH 001	4
PHYS 101	General Physics		4
ENG 102	English II		3
Total Credit Hours			*17*

Second Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 102	Shadow and Perspectives		3
ARE 103	Material Science and Engineering		3
ISLS 101	Islamic Studies I		3
MATH 102	Calculus II	MATH 101	4
ENG 103	Public Speaking		3
Total Credit Hours			*16*

Second Year

Third Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 201	Architectural Design I	ARE 101	3
ARE 202	Building Construction	ARE 103	3
ARAB 101	Arabic I		3
ID 275	Art and Architecture History I		3
ID 277	Building and Finishing Materials	ARE 103	2
COMP 271	Computer for Interiors I: CAD 2D		2
Total Credit Hours			*16*

Fourth Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 203	Architectural Design II	ARE 201	4
ARE 204	Structural Mechanics	ARE 202 ID 277	3
ARE 205	Architecture and Buildings I	ARE 201	3
COMP 272	Computer for Interiors II: 3D MAX		2
ID 276	Art and Architecture History II	ID 275	3
GEE XXX	General Education Elective		3
Total Credit Hours			*18*

Third Year

Fifth Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 301	Building Acoustics	ARE 205	3
ARE 302	Electrical Installations	ARE 204	2
ARE 303	Sustainable Buildings	ARE 203 ARE 204 ARE 205	2
ARE 304	Architectural Design III	ARE 203	4
ARE 206	Landscape Studio	ARE 201 COMP 271	3
ARE 310	Architecture and Buildings II	ARE 205	3
Total Credit Hours			*17*

Sixth Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 305	Building Mechanical Systems	ARE 302 ARE 204	3
ARE 306	Urban Design	ARE 304	2
ARE 307	Heating, Ventilation, and Air-Conditioning	ARE 302	2
ARE 308	Architectural Design IV	ARE 304	4
ARE 309	Interior Design for Architects	ARE 304	4
DES 201	Research Methods for Architecture and Design		3
Total Credit Hours			*18*

Forth Year

Seventh Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 401	Structural Analysis	ARE 202	3
ARE 402	Contracts and Liabilities for Buildings and Construction	ARE 307	3
ARE 403	Fundamentals of Reinforced Concrete Design	ARE 305	3
ARE 404	Architectural Design V	ARE 308	4
AREE XXX	Major Elective		3
Total Credit Hours			*16*

Eighth Level

Course Code	Course Title	Pre-requisites	Credit Hours
ARE 405	Quantity Surveying	ARE 401	2
ARE 406	The Built Environment	ARE 404	3
ARE 407	Working Drawing Design	ARE 310	3
ARE 408	Architectural Design VI	ARE 404	4
ARE 409	Architectural Engineering Capstone I: Thesis	ARE 404 ENG 102	3
AREE XXX	Major Elective		3
Total Credit Hours			*18*

Summer			
ARE 491	COOP	Department Approval	2

FIFTH YEAR

Ninth Level			
ARE 501	Management Principles in Building Engineering	ARE 408	2
ARE 502	Architectural Engineering Capstone II: Project	ARE 408 ARE 409	4
ARE 503	Environmental Management and Policy	ARE 406	3
ID 475	Professional Practice and Portfolio	ARE 404	3
Total Credit Hours			*12*

Major Electives

Course Code	Course Title	Credit Hours
AREE 311	Environmental Control	3
AREE 312	Conservation of Heritage Building	3
AREE 423	Advanced Architectural Design Studio	3
AREE 481	Green Building	3
AREE 482	Building Performance Analysis	3
AREE 483	Life Cycle Assessment	3
AREE 485	Energy Efficiency and Renewable Energy App. for Buildings	3
AREE 491	Special Topical in Architectural Engineering	3
IDE 371	Architectural Photography	3

General Education Electives
(Free Electives)

Course Code	Course Title	Credit Hours
PSY 101	Introduction to Psychology	3
SCO 101	Introduction to Sociology	3
EI 101	Emotional Intelligence	3
ENG 204	Critical Thinking	3
ETH 101	Social Ethics	3
MKT 333	Public Relations	3
GD 286	Photography I	3
GED 100	Introduction of Design Software	3
NPS 101	Negotiation and Problem Solving	3
BUS 101	Essentials of Business	3
BUS 425	Entrepreneurship	3
SPD 101	Soft Skills and Personality Development	3
LAW -101	Principles of Law	3
TEM -121	Introduction to Tourism and Hospitality	3
ID 274	Design Theories	3
GD 088	Islamic Art	3
GFID 106	Digital Communications	3
CSIT 101	Digital Citizenship	3
CSIT 102	Foundations of Computers and Technology Information	3

Preparation Course

Course Code	Course Title	Credit Hours
MATH 001	Precalculus	NP

Total Credit Hours:	150
General Requirements:	24
Major Requirements:	117
Major Electives Requirements:	6
General Education Electives Requirements:	3