جامعة ظفار
Dhofar University
Vision for the future

Dhofar University

College of Engineering

Department of Architectural Engineering

Bachelor of Science in Architectural Engineering
Plan of Study

September 2025

College of Engineering
Dept. of Architectural
Engineering

Bachelor Study Plan

1- Program Statistics by Course Category

Course Category	No. of Courses	Credit Hours	Percentage of Total Credit Hours
University Requirements	10	30	20%
College Requirements	5	15	10%
Program Core Requirements	35	96	64%
Program Elective Courses	3	9	6%
Total	53	150	100%

2- Classification of Requirements

2.1 University Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
ARAB 101	Academic Writing in Arabic	3	FPE 103C / FPEL 100	
ENGL 101	Basic Academic English	3	FPE 103C	
ENGL 102E	English for Engineering and Sciences I	3	ENGL 101	
ENGL 203E	English for Engineering and Sciences II	3	ENGL 102E / ENGL 102C	
ENGL 204	Advanced English for Academic Purposes and Research	3	ENGL 203E	
ENGL 305	Advanced English Language and Communication Skills	3	ENGL 204	
ENTR 200	Entrepreneurship: Innovation and Creativity	3	ENGL 203E	
MATH 199	Calculus I	3	FPE 103C + FPM 101A + FPM 102B	
SOCS 102	Omani Society	3	FPE 103C + FPEL 100	
CMPS 100B	Introduction to Technical Computing for the Sciences	3	< FPE 103C + < FPT 101A + < FPT 102B	
Total Credits		30		

2.2 College Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
PHYS 170	Fundamentals of Physics I	3	MATH 199 / MATH 103	
MATH 200	Calculus II	3	MATH 199	
MATH 205	Calculus III	3	MATH 200	

MATH 210	Differential Equations	3	MATH 200	
EECE 210	Electrical Circuits I	3	< PHYS 170	
Total Credits		**15**		

2.3 Program Major (Compulsory) Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
ARCH 101	Architectural Drawing I	3	< FPE 103C	
ARCH 102	Introduction to the Architectural Building Sci. & Engineering Ethics	3	< FPE 103C	
ARCH 111	Architectural Drawing II	3	< ARCH 101	
CIVE 210A	Mechanical Statics for Architectural Engineers	3	< PHYS 170	
ARCH 201	Architectural Design I	3	< ARCH 102 / < ARCH 111	
ARCH 202	Introduction to Computer Aidad Drawing	3	< CMPS 100B / < ARCH 111	
ARCH 211	Architectural Design II	3	< ARCH 201	
ARCH 212	Introduction to Building Information Modeling for Architects	3	< ARCH 202	
CIVE 213A	Strength of Materials for Architectural Engineers	3	< CIVE 210A	
CIVE 221A	Construction Materials for Architectural Engineers	3	< CIVE 213A	
CIVE 221L	Construction Materials Laboratory	1	< CIVE 221 / < CIVE 221A	
CIVE 265A	Surveying & GPS for Architectural Engineers	3	< MATH 200 / < ARCH 102	
CIVE 265L	Surveying and GPS Laboratory	1	< CIVE 265 / < CIVE 265A	
MECH 270A	Properties of Material for Architectural Engineers	3	< FPE 103C + < ARCH 102	
ARCH 301	Architectural Design III	3	< ARCH 211 / < ARCH 212	
ARCH 302	Advanced Architectural Design Theories	3	< ARCH 211	
ARCH 303	Building Construction I - Concrete Design	3	< ARCH 212 / < CIVE 221A	

ARCH 304	Building Construction Methods	3	< ARCH 211 / < CIVE 221A	
ARCH 305	Ecology and Building Environmental Control Systems I	3	< ARCH 212 / < ARCH 302	
ARCH 306	History of Architecture I	2	< ARCH 211	
ARCH 311	Architectural Design IV	4	/ < ARCH 301	
ARCH 313	Building Cons.II - Wood and Masonry Cons. Design	3	< ARCH 303	
ARCH 316	History of Architecture II	2	< ARCH 306	
ENGR 300	Engineering Economy	3	< ENGR 100 / < ARCH 102	
ARCH 400	Approved Professional Experience	0	< ARCH 404	
ARCH 401	Final Project I	3	< ARCH 404	
ARCH 402	Final Project II	3	< ARCH 401	
ARCH 403	Building Constructions III - Steel and Glass Design	3	< ARCH 313	
ARCH 404	Architectural Design V	4	< ARCH 311	
ARCH 405	Ecology & Building Environmental Control Systems II	3	< ARCH 305	
ARCH 407	Sustainable Architectural Design	2	< ARCH 302	
ARCH 408	Working Drawings	3	< ARCH 404	
ARCH 415	Building Lighting & Acoustical Design	3	< ARCH 405	
ARCH 506	Construction Projects Specification and Quantities	2	< ARCH 408	
CIVE 480	Construction Management	3	< CIVE 325 + < CIVE 221 + < CIVE 221A + < ARCH 303	
Total Credits		**96**		

2.4 Program Elective Courses

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
ARCH 321	Advanced BIM for Architecture	3		
ARCH 322	Modelling and Rendering	3		
ARCH 323	Ecological Building Materials	3		
ARCH 324	Local Vernacular Architecture, Construction Materials, Methods and Craftworks	3		
ARCH 421	Special Topics in Interior Architecture	3		

ARCH 422	Green Buildings (Codes, Standards and Rating Systems)	3		
ARCH 423	Bio-climatic Integration into Architecture Context	2		
ARCH 424	Identification and Evaluation of the Historic Built Environment	3		
ARCH 425	Environmental Design Research	2		
ARCH 426	Human Factors	2		
Total Credits		**6**		

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3- Study Plan

Year 1				
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**	**University/ College/Major/Elective requirements**
Fall				
ARCH 101	Architectural Drawing I	3	[< FPE 103C]	M
ENGL 101	Basic Academic English I	3	[< FPE 103C]	U
ARAB 101	Academic Writing in Arabic	3	[< FPE 103C / < FPEL 100]	U
MATH 199	Calculus I	3	[< FPE 103C + < FPM 101A + < FPM 102B]	U
PHYS 170	Fundamentals of Physics I	3	[<= MATH 199 / < MATH 103]	C
Total Credits		**15**		
Spring				
ARCH 111	Architectural Drawing II	3	[< ARCH 201]	M
ARCH 102	Introduction to Architectural Building Science and Engineering Ethics	3	[< FPE 103C]	M
CIVE 210A	Mechanical Statics for Architectural Engineers	3	[< PHYS 170]	M
ENGL 102E	English for Engineering and Sciences	3	[< ENGL 101]	U
CMPS 100B	Introduction to Technical Computing for the Sciences	3	[< FPE 103C + < FPT 101A + < FPT 102B]	U
Total Credits		**15**		
Summer				
ENGL 203E	English for Engineering and Science II	3	[< ENGL 102E / < ENGL 102C]	U
MATH 200	Calculus II	3	[< MATH 199]	C
SOCS 102	Omani Society	3	[< FPE 103C + < FPEL 100]	U
Total Credits		**9**		

Year 2				
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**	**University/ College/Major/Elective requirements**
Fall				
ARCH 201	Architectural Design I	3	[< ARCH 102 / < ARCH 111]	M
ARCH 202	Introduction to Computer Aided Drawing	3	[< CMPS 100B / < ARCH 111]	M
MECH 270A	Properties of Materials for Architectural Engineers	3	[< FPE 103C + < ARCH 102]	M
CIVE 213A	Strength of Materials for Architectural Engineers	3	[< CIVE 210A]	M
CIVE 265A	Surveying & GPS for Architectural Engineers	3	[< MATH 200 / < ARCH 102]	M
CIVE 265L	Surveying & GPS Laboratory	1	[< CIVE 265 / < CIVE 265A]	M
Total Credits		**16**		
Spring				
ARCH 211	Architectural Design II	3	[< ARCH 201]	M
ARCH 212	Introduction to Building Information Modelling for Architects	3	[< ARCH 202]	M
EECE 210	Electrical Circuits I	3	[< PHYS 170]	C
CIVE 221A	Construction Materials for Architectural Engineers	3	[< CIVE 213A]	M
CIVE 221L	Construction Materials Laboratory	1	[< CIVE 221 / < CIVE 221A]	M
MATH 205	Calculus III	3	[< MATH 200]	C
Total Credits		**16**		
Summer				
MATH 210	Differential Equations	3	[< MATH 200]	C
ENTR 200	Entrepreneurship: Innovation and Creativity	3	[< ENGL 203E]	U
ENGL 204	Advanced English for Academic Purposes and Research	3	[< ENGL 203E]	U
Total Credits		**9**		

Year 3				
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**	**University/ College/Major/Elective requirements**
	Fall			
ARCH 301	Architectural Design III	3	[< ARCH 211 / < ARCH 212]	M
ARCH 302	Advanced Architectural Design Theories	3	[< ARCH 211]	M
ARCH 303	Building Construction, I - Concrete Design	3	[< ARCH 212 / < CIVE 221A]	M
ARCH 304	Building Construction Methods	3	[< ARCH 211 / < CIVE 221A]	M
ARCH 306	History of Architecture I	2	[< ARCH 211]	M
Total Credits		**14**		
	Spring			
ARCH 311	Architectural Design IV	4	[< ARCH 301]	M
ARCH 313	Building Constructions II - Wood and Masonry Constructions Design	3	[< ARCH 303]	M
ARCH 305	Ecology and Building Environmental Control Systems I	3	[< ARCH 212 / < ARCH 302]	M
ARCH 316	History of Architecture II	2	[< ARCH 306]	M
ENGR 300	Engineering Economy	3	[< ENGR 100 / < ARCH 102]	M
Total Credits		**15**		
	Summer			
ENGL 305	Advanced English Language and Communication Skills	3	[< ENGL 204]	U
Total Credits		**3**		

Year 4				
Course Code	Course Title	Credit Hours	Prerequisite	University/ College/Major/Elective requirements
Fall				
ARCH 404	Architectural Design V	4	[< ARCH 311]	M
ARCH 405	Ecology and Building Environmental Control Systems II	3	[< ARCH 305]	M
ARCH 403	Building Constructions III - Steel and Glass Design	3	[< ARCH 313]	M
ARCH 407	Sustainable Architectural Design	2	[< ARCH 302]	M
CIVE 480	Construction Management	3	[< CIVE 325 + < CIVE 221 + < CIVE 221A + < ARCH 303	M
Total Credits		**15**		
Spring				
ARCH 401	Final Project I	3	[< ARCH 404]	M
ARCH 408	Working Drawings	3	[< ARCH 404]	M
ARCH 415	Building Lighting and Acoustical Design	3	[< ARCH 405]	M
XXXX 000	Science Elective	3		E
Total Credits		**12**		
Summer				
ARCH 400	Approved Professional Experience	0	[< ARCH 404]	M
Total Credits		**0**		
Fall				
ARCH 402	Final Project II	3	[< ARCH 401]	M
ARCH 506	Construction Projects Specification and Quantities	2	[< FPE 103C / < ARCH 408]	M
ARCH XXX	Major Elective	3		E
ARCH XXX	Major Elective	3		E
Total Credits		**11**		

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Total 150