

COLLEGE OF ARCHITECTURE & DESIGN

Bachelor of Science in Architecture for Full Time Students Five Year Study Plan as of Academic Year 2019/2020

FIRST YEAR (31 Credit Hours)

FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec-ture	Studio / Tutorial					Lec-ture	Studio / Tutorial	
COMM 1311	Written Communication	3	3	0		PSYC 1311	Intro to Psychology (Soc-Sci Restricted Elective)	3	3	0	
UNIV 1211	Prof. Development and Competencies	2	2	0		ALIS 1211	Introduction to Islamic Culture	2	2	0	
MATH 1422	Calculus I	4	3	1	FRPM 0022	COMM 1312	Writing and Research	3	3	0	COMM 1311
						UNIV 1212	Critical Thinking & Problem Solving	2	2	0	
COAD 1311	Design Studio I- Fundamentals	3	1	4	FRPM 0022* (C)COAD 1312	COAD 1313	Design Studio II- Fundamentals	3	1	4	COAD 1311 COAD 1312
COAD 1312	Hand Drawing and Rendering Techniques	3	1	4	(C) COAD 1311	COAD 1314	Construction Documents and Detail Drawings	3	1	4	COAD 1311 (C) COAD 1313
Total		15	10	9		Total		16	12	8	

SECOND YEAR (35 Credit Hours)

FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec-ture	Studio / Tutorial					Lec-ture	Studio / Tutorial	
MATH 1423	Calculus II	4	3	1	MATH 1422	UNIV 1213	Leadership And Teamwork	2	2	0	
ASSE 2111	Learning Outcome Assessment I	1	1	1	Second Year Level	COMM 2311	Oral Communication	3	3	0	COMM 1312
COAD 2333	Environmental Psychology for Design	3	3	0	COAD 1313 PSYC 1311	PHYS 1421	Physics for Engineers I	4	3	3	FRPM 0022
ARCH 2341	Principles of Design with Climate	3	3	0	(C)ARCH 2421	ARCH 2342	Materials and Methods	3	2	2	(C)ARCH 2422
ARCH 2421	Design Studio III- Architectural Design	4	1	6	COAD 1313 (C)COAD 2333 (C) COAD 2251	ARCH 2422	Design Studio IV- Integrated Architectural Design	4	1	6	ARCH 2421 (C)COAD 2252 (C)ARCH 2342
COAD 2251	Digital Design I: 2D	2	1	3	COAD 1314	COAD 2252	Digital Design II: 3D	2	1	3	COAD 2251
Total		17	12	12		Total		18	12	14	

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THIRD YEAR (32 Credit Hours)

FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec-ture	Studio / Tutorial					Lec-ture	Studio / Tutorial	
COMM 2312	Technical and Professional Communications	3	3	0	COMM 2311	ALIS 1212	The Social System in Islam	2	2	0	
ASSE 3211	Learning Outcome Assessment II	2	2	1	ASSE 2111 & Third Year Level	ARCH 3343	Principles of Structural Systems	3	3	0	ARCH 2342
COAD 3341	Built World Design History and Theory I	3	3	0	COAD 2333	COAD 3342	Built World Design History and Theory II	3	3	0	COAD 3341
COAD 3353	Digital Design III-BIM	3	1	4	COAD 2252	COAD 3322	Building Codes and Universal Design	3	3	0	ARCH 2342
ARCH 3523	Design Studio V- Architectural Design	5	1	8	ARCH 2422 (C) COAD 3353	ARCH 3524	Design Studio VI- Integrated Architectural Design	5	1	8	ARCH 3523 (C) COAD 3342
Total		16	10	13		Total		16	12	8	

FOURTH YEAR (34 Credit Hours)

FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lec-ture	Studio / Tutorial					Lec-ture	Studio / Tutorial	
PROPOSED NEW COURSE	Social Science Research Methods OR other Social Science elective (Counted as Optional Studies)**	3	3	0		ARCH 4361	Preparing the Project Brief	3	3	0	UNIV 1213 COAD 2333
ARCH 4344	Introduction to Environmental Systems	3	3	0	ARCH 2341	ARCH 4362	Construction Process and Building Economics	3	3	0	ARCH 3343
ARCH 4354	Simulation and Optimization	3	2	2	MATH 1423 COAD 3353 ARCH 3343	ARCH 4345	Architectural Structures	3	2	2	MATH 1423 ARCH 4354 (C)ARCH 4526
ARCH OR COAD 43XX	Professional Elective*	3	Varies	Varies	Varies	ARCH 4346	Integrated Environmental Systems	3	2	2	ARCH 4344 (C)ARCH 4526
ARCH 4525	Design Studio VII- Architectural Design	5	1	8	ARCH 3524 COAD 3322	ARCH 4526	Design Studio VIII- Integrated Architectural Design	5	1	8	ARCH 4525 (C)ARCH 4345 (C)ARCH 4346
Total		17	9+	10+		Total		17	11	12	

SUMMER OF FOURTH YEAR (3 Credit Hours)

Course Code	Course Title	Credit Hours	Pre-Requisite/Co-Requisite
ARCH 4365	Internship	3	8 weeks (320 hours) full time Completion of 100 credit hours and department approval (summer before graduation)

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FIFTH YEAR (28 Credit Hours)

FIRST SEMESTER						SECOND SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Studio / Tutorial					Lecture	Studio / Tutorial	
ALIS 2211	Linguistic Communication Skills/ Ethical Social System in Islam	2	2	0		ALIS 2212	The Biography of Prophet Mohammad	2	2	0	
PHED 1111	Active Living Lifestyle	1	1	0		PHED 1112	Healthy Behaviors and Management	1	1	0	
CHEM 1411 or BIOL 1411	Natural and Physical Sciences	4	3	3	FRPM 0022	ARCH 5363	Professional Practice and Ethics	3	3	0	ARCH 4526
ARCH 53XX	Professional Elective*	3	Varies	Varies	Varies	ARCH 53XX	Professional Elective*	3	Varies	Varies	Varies
ARCH 5327	Design Studio IX- Capstone Project Programming	3	1	4	ARCH 4365 ARCH 4526	ARCH 5628	Design Studio X- Architectural Capstone Project	6	1	10	ARCH 5327
Total		13	7+	7+		Total		15	7+	10+	

ARCHITECTURE PROGRAM TOTAL DEGREE CREDIT HOURS = 163

*PROFESSIONAL ELECTIVES 3 courses required (9 credit hours)

Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Studio / Tutorial					Lecture	Studio / Tutorial	
COAD 4333	History of Islamic Design	3	3	0	COAD 3342	ARCH 5372	Building Energy Use Modeling and Simulation	3	2	2	ARCH 4354 ARCH 4346
COAD 4351	Built World Photography	3	2	2	ARCH 3524	ARCH 5373	Sustainable Housing and GeoDesign	3	2	2	ARCH 4354
ARCH 4371	Contemporary Materials in Architecture and Design	3	3	0	ARCH 2342	ARCH 5374	Advanced Design Visualization	3	2	2	COAD 3353
						ARCH 5375	Computational Modeling and Simulation	3	2	2	ARCH 4354 ARCH 4326

**SOCIAL SCIENCE ELECTIVES 1 course required (3 credit hours)

Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Studio / Tutorial					Lecture	Studio / Tutorial	
HIST 1311	World Civilizations, 1600 Present	3	3	0		GEGR 1311	World Regional Geography	3	3	0	
SUST 1311	Introduction to Sustainability	3	3	0		FREN 1311	Introduction to French Language	3	3	0	
SPAN 1311	Introduction to Spanish Language	3	3	0							

NOTES:

- Completion of PRPM 0022 Pre-Calculus is required before entry into Architecture Program.
- This Program of Study applies to ONLY full-time students. Minimum of 12 credit hours constitutes full time status.
- Student GPA determines maximum semester course load as per department advisement criteria.
- ARCH major courses offered only in the semester shown on this plan. Other timings are not guaranteed.
- ARCH major summer course offerings are not guaranteed.
- Internship experience may not be combined with any courses.

07 APR 2021

Chair Signature
Dr. Helen Peterson

COAD Dean Signature
Dr. Jamal F. Nayfeh

COAD Dean Signature
Dr. Mohammad Ashraf

March 8, 2021