College of Engineering and Physical Sciences

ARCHITECTURAL ENGINEERING, BSAR

	FALL						SPRING					
Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grad	
					ESHM	AN YEA	R					
RE 1000	Exploring CAECM		1	С		MATH 2205	-	I	4	С		
	1 8					Prerequisite:	C in Math 2200					
ARE 1060	Arch Design Studio I		3	С		ES 2110	Statics		3	С		
	C					Prerequisite:	Concurrent in MATH 2205					
1ATH 2200	Calculus I	Q	4	С		PHYS 1210	Engineering Physics I		4	С		
rerequisite:	C in Math 1405 or 1450, MPE 5, Math	h ACT 27,	Math SA	AT 640		Prerequisite:	Concurrent in Math 2205					
THEM 1020	General Chemistry I	PN	4	C			USP: US & Wyo Const.	V	3	D		
rerequisite:	ACT Math 23 or concurrent MATH 140	00, 1405 a	or 1450	-								
	USP: Human Culture or First Year Seminar	н	3	D			USP: Communications I	C1	3	С		
		Total	15			•	-	Total	17			
				SO	PHOM	ORE YEA	AR					
1ATH 2210	Calculus III		4	C		ARE 2410	Fund. Of Bldg. Performanc	e	3	С		
rerequisite:	C in MATH 2205					Prerequisite:	C in PHYS 1210					
S 2120	Dynamics		3	С		ARE 2060	Arch. Design Studio II		3	С		
rerequisite:	C in MATH 2205 and ES 2110					Prerequisite:	C in ARE 1600					
S 2410	Mechanics of Materials		3	С		ES 2310	Thermodynamics		3	С		
rerequisite:	C in MATH 2205 and ES 2110					Prerequisite:	C in MATH 2210 and either ES 2120	or PHYS 1	210			
One of:	Geology 1100, 1320, or 1330		4	D		ES 2330	Fluid Dynamics		3	С		
						Prerequisite:	C in MATH 2210 and either ES 2120	or PHYS 1	210			
	USP: Communications II	C2	3	С		ARE 3200	Structural Analysis I		3	С		
rerequisite:	C in Cl					Prerequisite:	Gateway, C in ES 2410	L				
		Total	17					Total	15			
RT 3030	History of Architecture	Н	3	C	JUNIU	R YEAR	Professional Practice		3	C		
rerequisite:	Gateway, C in C1	11	J	C		fill stro	Gateway		3	C		
RE 3400	HVAC of Buildings		3	С		ARE 3300	Bldg. Electrical/Plumbing	Svs	3	С		
rerequisite:	Gateway, C in ES 2310 and ARE 2410	, Concurre				Prerequisite:	Gateway, C in ARE 1600, Concurrent in ES 2330					
1ATH 2310	Applied Differential Eqns I	,	3	D		ARE 3210	CE Materials	C3	4	С		
rerequisite:	C in MATH 2205					Prerequisite:	Gateway, C in C2 and C in ES 2410					
TAT 2050	Fundamentals in Statistics		4	D			AREPDE		3	С		
Prerequisite:	C in MATH 1400					Prerequisite:	Gateway					
	ARE MSTP Elective		3	D			ARE PDE		3	С		
						Prerequisite:	Gateway					
		Total	16					Total	16			
					SENIO	R YEAR						
RE 3600	Arch. Design Studio III		3	С		One of:	ARE 4720 or 4740—Capston		3	С		
rerequisite:	Gateway, C in ARE 2410 and ARE 260	00				Prerequisite:	Gatewy, C in ARE 3110 for both, plus:					
	ARE PDE		3	С			For ARE 4720: C in ARE 4200, 4250	and 4260	(or concu	irrent)		
rerequisite:	Gateway						For ARE 4740: C in ARE 3400					
	ARE PDE		3	D		ARE 4600	Arch. Design Studio IV		3	С		
rerequisite:	Gateway					Prerequisite:	Gateway, C in ARE 3600					
	USP: Human Culture	Н	3	D			ARE PDE		3	С		
						Prerequisite:	Gateway	ļ				
							ARE PDE		3	С		
						Prerequisite:	Gateway	L				
		Total	12					Total	12			

• A minimum of 120 hours is required. • A minimum of 42 hours must be upper division.

• Math/Science, Technical and Professional Development Electives must be selected with advisor's approval from Department list.

• Advanced Standing/Gateway: Prior to enrolling in upper division ARE/CE courses, students must earn 57 quality points in the following course: CHEM 1020, PHYS 1210 or 1220, MATH 2200, MATH 2205, ES 2110, ES 2120, and ES 2410.

• Degree candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all engineering courses, and all courses required for the major. • Grades of C or better are required for all prerequisite courses.

• Students choose an area of emphasis in either structural or mechanical systems, and select Option Electives and the Capstone Design for their emphasis area. Care should be taken to ensure prerequisites are completed.

• Students may have a maximum of 6 credits in courses with a grade of D in upper division ARE courses that apply towards their degree.

• Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only. No more than two upper division courses may be transferred and applied to the ARE degree. ARE 4720 and ARE 4740 cannot be transferred to uw.