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
				FRE	CSHM	AN YEAI	R				
ARE 1000	Exploring CAECM		1	С		MATH 2205	Calculus II		4	C	
						Prerequisite:	C in Math 2200				
ARE 1600	Arch Design Studio I		3	С		ES 2110	Statics		3	С	
						Prerequisite:	Concurrent in MATH 2205				
MATH 2200	Calculus I	Q	4	C		PHYS 1210	Engineering Physics I		4	С	
rerequisite:	C in Math 1405 or 1450, MPE 5, Math					Prerequisite:	Concurrent in Math 2205	V	-	D	
CHEM 1020	General Chemistry I ACT Math 23 or concurrent MATH 140	PN	4	C			USP: US & Wyo Const.	v	3	D	
Prerequisite:	USP: Human Culture	0, 1405 H	or 1450	D			USP: Communications I	C1	3	С	
	or First Year Seminar	п	3	D			usr: communications i	CI	3	C	
	of First Tear Seminar	Total	15					Total	17		
		Total	-	SOPI	IOM	ORE YEA	R	Total	17		
MATH 2210	Calculus III		4			ARE 2410	Fund. Of Bldg. Performance		3	C	1
rerequisite:	C in MATH 2205		T	ľ		Prerequisite:	C in PHYS 1210		,		
ES 2120	Dynamics		3	С		ARE 2600	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 a	r PHYS 1	210		
One of:	Geology 1100, 1500, or 1600		4	D		ES 2330	Fluid Dynamics		3	С	
						Prerequisite:	C in MATH 2210 and either ES 2120 a	r PHYS 1	210		
	USP: Communications II	C2	3	С		ARE 3200	Structural Analysis I		3	С	
Prerequisite:	C in C1					Prerequisite:	Gateway, C in ES 2410				
		Total	17					Total	15	-	-
DE 2020			2	-	JNIOI	R YEAR	Professional Practice		2		
ART 3030	History of Architecture Gateway, C in Cl	Н	3	С		ARE 3110			3	C	
Prerequisite: ARE 3400	HVAC of Buildings		3	С		ARE 3300	Gateway Bldg. Electrical/Plumbing S	VC	3	С	
rerequisite:	Gateway, C in ES 2310 and ARE 2410	Concurr	-			Prerequisite:	Gateway, C in ARE 1600, Concurrent in	-	-	C	
MATH 2310	Applied Differential Eqns I	concurr	3	D		ARE 3210	CE Materials	C3	4	С	
rerequisite:	C in MATH 2205		5	D		Prerequisite:	Gateway, C in C2 and C in ES 2410	C,	Ŧ	C	
STAT 2050	Fundamentals in Statistics		4	D		Trerequisite.	ARE PDE		3	С	
rerequisite:	C in MATH 1400		-	_		Prerequisite:	Gateway		-	-	
	ARE MSTP Elective		3	D		1	ARE PDE		3	С	
						Prerequisite:	Gateway				
		Total	16				• •	Total	16		•
				S	ENIO	R YEAR					
ARE 3600	Arch. Design Studio III		3	С		One of:	ARE 4720 or 4740—Capston	e	3	С	
Prerequisite:	Gateway, C in ARE 2410 and ARE 260	0				Prerequisite:	Gatewy, C in ARE 3110 for both, plus:				
	ARE PDE		3	С			For ARE 4720: C in ARE 4200, 4250	ınd 4260	(or conc	irrent)	
Prerequisite:	Gateway						For ARE 4740: C in ARE 3400				
	ARE PDE		3	D		ARE 4600	Arch. Design Studio IV		3	С	
Prerequisite:	Gateway					Prerequisite:	Gateway, C in ARE 3600				
	USP: Human Culture	Н	3	D			ARE PDE		3	С	
						Prerequisite:	Gateway			<u> </u>	
							ARE PDE		3	С	
						Prerequisite:	Gateway				
		Total	12					Total	12		

• A minimum of 123 hours is required. • A minimum of 42 hours must be upper division.

• Math/Science, Option and Major 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.