



# ARCHITECTURAL ENGINEERING, BSAR

## FALL

## SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade Earned
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### FRESHMAN YEAR

ARE 1000	VISTA Studio I		1	C		ARE 1600	Arch Design Studio I		3	C	
Prerequisite: Concurrent MATH 1450 or 1405						Prerequisite: Concurrent in MATH 2200					
MATH 2200	Calculus I	Q	4	C		MATH 2205	Calculus II		4	C	
Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640						Prerequisite: C in Math 2200					
CHEM 1020	General Chemistry I	PN	4	D		ES 2110	Statics		3	C	
Prerequisite: ACT Math 23 or concurrent MATH 1400, 1405 or 1450						Prerequisite: Concurrent in MATH 2205					
	USP: First Year Seminar	FYS	3	C		One of:	Geology 1100, 1500, or 1600		4	D	
	USP: Communications I	C1	3	C			USP: Communications II	C2	3	C	
Prerequisite: C in C1						Prerequisite: C in C1					
	USP: US & Wyo Const.	V	3	D							
<b>Total</b>						<b>Total</b>					

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### SOPHOMORE YEAR

ARE 2000	VISTA Studio II		3	C		ARE 2410	Fund. Of Bldg.		3	C	
Prerequisite: Concurrent in MATH 2205 and (ARE 1600 or CE 1010)						Prerequisite: C in PHYS 1210					
MATH 2210	Calculus III		4	C		ARE 2600	Arch. Design Studio II		3	C	
Prerequisite: C in MATH 2205						Prerequisite: C in ARE 1600					
ES 2120	Dynamics		3	C		ES 2310	Thermodynamics		3	C	
Prerequisite: C in MATH 2205 and ES 2110						Prerequisite: C in MATH 2210 and either ES 2120 or PHYS 1210					
ES 2410	Mechanics of Materials		3	C		ES 2330	Fluid Dynamics		3	C	
Prerequisite: C in MATH 2205 and ES 2110						Prerequisite: C in MATH 2210 and either ES 2120 or PHYS 1210					
PHYS 1210	Engr Physics I		4	C		ARE 3200	Structural Analysis I		3	C	
Prerequisite: Concurrent in Math 2205						Prerequisite: Gateway, C in ES 2410					
<b>Total</b>						<b>Total</b>					

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### JUNIOR YEAR

ARE 3600	Arch. Design Studio III		3	C		ARE 4600	Arch. Design Studio IV		3	C	
Prerequisite: Gateway, C in ARE 2410 and ARE 2600						Prerequisite: Gateway, C in ARE 3600					
ART 3030	History of Architecture	H	3	D		ARE 3300	Bldg. Electrical/Plumbing Sys		3	C	
Prerequisite: Gateway, C in C1						Prerequisite: Gateway, C in ARE 1600, Concurrent in ES 2330					
ARE 3400	HVAC of Buildings		3	C			Option Elective		3	C	
Prerequisite: Gateway, C in ES 2310 and ARE 2410, Concurrent in ES 2330						Prerequisite: Gateway					
ARE 3210	CE Materials	C3	4	C			Option Elective		3	C	
Prerequisite: Gateway, C in C2 and C in ES 2410						Prerequisite: Gateway					
STAT 2050	Fundamentals in Statistics		4	D		MATH 2310	Applied Differential Eqns		3	C	
Prerequisite: C in MATH 1400						Prerequisite: C in MATH 2205					
<b>Total</b>						<b>Total</b>					

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### SENIOR YEAR

	Option Elective		3	C		One of:	ARE 4720 or ARE 4740-Capstone		3	C	
Prerequisite: Gateway						Prerequisite: Gateway, Varies					
	Option Elective		3	C		ARE 3000	VISTA Studio III		3	C	
Prerequisite: Gateway						Prerequisite: Gateway, C in ARE 2000 and ES 2410					
	Major Elective		3	D			Option Elective		3	C	
						Prerequisite: Gateway					
	Major Elective		3	D			Option Elective		3	C	
						Prerequisite: Gateway					
	Human Culture Course	H	3	D							
<b>Total</b>						<b>Total</b>					

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#### Fall only or spring only course

Total Program Credits: 126

- A minimum of 128 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.