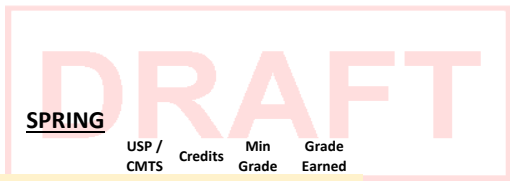




# ARCHITECTURAL ENGINEERING

## Academic Year 2019 - 2020



**FALL**

**SPRING**

Course number	Course Title	USP / CMTS	Credits	Min Grade	Grade Earned	Course Number	Course Title	USP / CMTS	Credits	Min Grade	Grade Earned
<b>FRESHMAN YEAR</b>											
ARE 1000	VISTA Studio I		1	C		ARE 1600	Arch Design Studio I		3	C	
Fall only	Concurrent in MATH 1450 or MATH 1405						Concurrent in MATH 2200				
MATH 2200	Calculus I	GW	4	C		MATH 2205	Calculus II	GW	4	C	
	MATH 1405 or 1450 or level 5 on MPE, or MATH ACT of 27 or MATH SAT of > 640						C or better in Math 2200 or AP credit in MATH 2200				
CHEM 1020	General Chemistry I	GW	4	D		ES 2110	Statics	GW	3	C	
	ACT 23 or concurrent enrollment MATH 1400, 1405 or 1450						Concurrent in MATH 2205				
	FIRST YEAR SEMINAR	FYS	3	C		GEOL _____	Geology 1100, 1500, or 1600		4	C	
							USP C1				
	COMMUNICATION 1	C1	3	D			COMMUNICATION 2	C2	3	C	
							USP C1				
	US & WYO CONSTITUTION	V	3	D		<b>Total 17</b>					
<b>Total 18</b>											

<b>SOPHOMORE YEAR</b>												
ARE 2000	VISTA Studio II		3	C		ARE 2410	Fund. Of Bldg. Performance		3	C		
Fall only	CE 1010 or ARE 1600 and concurrent in MATH 2205						Spring only	PHYS 1210				
ES 2120	Dynamics	GW	3	C		ARE 2600	Arch. Design Studio II		3	C		
	C in MATH 2205 and ES 2110						Spring only	ARE 1600				
ES 2410	Mechanics of Materials	GW	3	C		ES 2310	Thermodynamics		3	C		
	C in MATH 2205 and ES 2110						C in MATH 2210 and either ES 2120 or PHYS 1210					
PHYS 12 ____	Engineering Physics I or II	GW	4	D		ES 2330	Fluid Dynamics		3	C		
	(I) 1210: C in MATH 2200 & concurrent in MATH 2205 (II) 1220: C in MATH 2200/2205 & concurrent in MATH 2210						C in MATH 2210 and either ES 2120 or PHYS 1210					
MATH 2210	Calculus III		4	C		ARE 3200	Structural Analysis I		3	C		
	C in MATH 2205						Spring only	Gateway & ES 2410				
<b>Total 17</b>						<b>Total 15</b>						

<b>JUNIOR YEAR</b>												
ARE 3600	Arch. Design Studio III		3	C		ARE 4600	Arch. Design Studio IV		3	C		
Fall only	Gateway, ARE 2410 & ARE 2600						Spring only	Gateway & ARE 3600				
ART 3030	History of Architecture	H	3	D		ARE 3300	Bldg. Electrical/Plumbing Sys		3	C		
Fall only	USP C1 - Course is also offered as a Summer study abroad option						Spring only	Gateway, ARE 2410, ES 2330 or concurrent enrollment				
ARE 3400	HVAC of Buildings		3	C			Option Elective	#2	3	C		
Fall only	Gateway, ES 2310, ARE 2410 or ME 3360, ES 2330 or concurrent enrollment						Gateway					
ARE 3210	CE Materials	C3	3	D			Option Elective	#2	3	C		
	Gateway, USP C2 & ES 2410						Gateway					
STAT 2050	Fundamentals in Statistics		4	D		MATH 2310	Applied Differential Eqns I		3	C		
	C in Math 1000, 1400, or equivalent						C in MATH 2205					
<b>Total 16</b>						<b>Total 15</b>						

<b>SENIOR YEAR</b>												
CE 3000	VISTA Studio III		3	D		ARE 47 ____	Capstone Design Course	#4	3	D		
Fall only	Gateway, CE 2000 or ARE 2000 & ES 2410						Spring only	ARE 4200, 4250, & 4260 or concurrent enrollment				
	Option Elective	#2	3	C			Option Elective	#2	3	C		
	Gateway						Gateway					
	Option Elective	#2	3	C			Option Elective	#2	3	C		
	Gateway						Gateway					
	Major Elective	#3	3	D			Major Elective	#3	3	D		
							Math/Science Elective					
	Human Culture Course	H	3	D								
<b>Total 15</b>						<b>Total 15</b>						

**KEY**

Prerequisite(s)

**Total Program Credits: 128**

- GW** Course is part of the department "Gateway Requirement" - Students must earn a minimum of 57 points prior to enrolling in any upper-division (3000-5000 level) courses
- Note #1** Must be selected from department approved list: <http://www.uwyo.edu/civil/curriculum/advising/are-elective-list2018-19.pdf>
- Note #2** Must be selected from department approved list in Note #1 and can be either Structural or Mechanical - Prerequisite's vary for each course
- Note #3** Must be selected from department approved list in Note #1 and can also be used for study abroad or additional option electives - Prerequisite's vary for each course
- Note #4** Choose between ARE 4720 Structural Systems Design or ARE 4740 Mechanical Systems Design
- USP Codes** FYS (First Year Seminar), C1 (Communication 1), C2 (Communication 2), C3 (Communication 3), V (US/WY Constitution), H (Human Culture/Humanities)