College of Engineering and Physical Sciences

PETROLEUM ENGINEERING, BSPE

FALL

Course Number	Course Title	USP	CR	Min Grade	Grade
	FRESHMAN YEAR				
	USP: Communications I	C1	3	C	
CHEM 1020	General Chemistry I	PN	4	D	
Prerequisite:	*ACT Math 23 or concurrent MATH 1400, 1405 or 1450*				
GEOL 1100	Physical Geology	PN	4	D	
MATH 2200	Calculus I	Q	4	C	
Prerequisite:	*C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640*				
	USP: Human Culture	H	3	D	
	Total		18		
	SOPHOMORE YEAR				
MATH 2210	Calculus III		4	C	
Prerequisite:	*C in Math 2205*				
MATH 2310	Applied Differential Eqns I		3	C	
Prerequisite:	*C in Math 2205.*				
ES 2120	Dynamics		3	C	
Prerequisite:	*C in MATH 2205 and C in ES 2110*				
PHYS 1220	Engr Physics II	PN	4	D	
Prerequisite:	*Concurrent in MATH 2210*				
PETE 2060	Computing and Data Mining		3	C	
Prerequisite:	*C in PETE 2050*				
	Total		17		
	JUNIOR YEAR				
PETE 3110	Reservoir Petrophysics		3	D	
	C in PETE 2050				
PETE 3015	Phase Behavior of Res Fluids		3	D	
Prerequisite:	*C in ES 2310 and D in PETE 2070*				
PETE 3025	Heat and Mass Transfer		3	D	
Prerequisite:	*C in ES 2330*				
PETE 3255	Drilling Engineering		3	D	
Prerequisite:	*C in ES 2330 and D in PETE 2070*				
PETE 4320	Well Log Interpretation		3	D	
Prerequisite:	*C in PETE 2050*				
	Total		15		
	SENIOR YEAR				
PETE 4225	Well Test Analysis		3	D	
Prerequisite:	*D in PETE 3200*				
PETE 4220	Geostatistics/Subsurface Char		3	D	
Prerequisite:	*D in PETE 3200*				
PETE 4340	Petroleum Economics & Law		3	D	
Prerequisite:	*D in PETE 3715*				
PETE	PETE Elective		3	D	
	Total		12		

SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade
	FRESHMAN YEAR				
PETE 2050	Fundamentals Petroleum Engr.		3	C	
Prerequisite:	*C in Math 2200 or concurrent enrollment*				
CHEM 1030	General Chemistry II	ELEC	4	D	
Prerequisite:	*D in CHEM 1020*				
ES 2110	Statics		3	C	
Prerequisite:	*C in Math 2205or concurrent enrollment*				
MATH 2205	Calculus II	Q	4	C	
Prerequisite:	*C in Math 2200*				
	USP: US & Wyo Const.	V	3	D	
	Total		17		
	SOPHOMORE YEAR				
	USP: Communications II	C2	3	C	
Prerequisite:	*C IN C1*				
ES 2310	Thermodynamics		3	C	
Prerequisite:	*C in MATH 2210 and C in ES 2120*				
ES 2330	Fluid Dynamics		3	C	
Prerequisite:	*C in MATH 2210 and C in ES 2120*				
ES 2410	Mechanics of Materials		3	C	
Prerequisite:	*C in MATH 2205 and C in ES 2110*				
PETE 2070	Geology/Geophysics for Petrol Eng		3	D	
Prerequisite:	*C in PETE 2050*				
	Total		15		
	JUNIOR YEAR				
PETE 3200	Reservoir Engineering		3	D	
Prerequisite:	*D in PETE 3110*				
PETE 3715	Production Engineering		3	D	
Prerequisite:	*C in PETE 2050, ES 2310, and ES 2330*				
PETE 3725	Well Completion/Stimulation		3	D	
Prerequisite:	*C in PETE 2050 and ES 2410*				
PETE 4255	Advanced Drilling Engineering		3	D	
Prerequisite:	*D in PETE 3255*				
	USP: Human Culture	H	3	D	
	Total		15		
	SENIOR YEAR				
PETE 4736	PETE Design	C3	4	C	
Prerequisite:	*D in PETE 3200, 3255, 3715, 3725 &C in COM2*				
PETE	PETE Elective		3	D	
	Technical Elective		3	D	
	Technical Elective		3	D	
	Total		13		

Total Program Credits: 122

Fall only or spring only course

- **A minimum of 122 hours is required. • A minimum of 48 hours must be upper division. • 30 hours of upper division must be from UW.**
- **6 credits of Petroleum Engineering Technical Electives are required.**
- **Degree candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all engineering courses, and a minimum GPA of 2.0 in all PETE courses attempted at UW.**
- **Students may not take a course for S/U credit to satisfy any requirement for a degree from the College of Engineering and Physical Sciences, unless the**
- **Students must complete 20 credit hours of required PETE courses at UW. Transfer students may only transfer nine additional credits once they have matriculated at UW. Non-transfer students many only transfer 18 credits from other institutions.**

2025-2026 Catalog Year