



B.S. Chemical Engineering 2020-2021 Catalog

University of Wyoming B.S. Chemical Engineering	cr	Min Grade	Notes
USP - University Studies Program Requirements			
USP: First Year Seminar	3	C	FYS
USP: Communications I	3	C	C1
USP: Communications II	3	C	C2
USP: Communications III (CHE 4080 included in Chemical Engineering curriculum)		C	C3
USP: US & Wyoming Constitutions	3		V
USP: Human Culture	3		H
	3		H
USP: Quantitative			
MATH 2200 Calculus I	4	C	Q
USP: Physical & Natural World			
CHEM 1050 Adv. General Chemistry	4	C	PN
LIFE 1010 General Biology I	4	D	PN
Credit hours subtotal:			30
Chemical Engineering Major Courses			
CHE 1005 Intro to CHE Problem Solving	1	C	
CHE 2005 Chem Process Analysis	3	C	
CHE 2060 Intro to CHE Computing	3	C	
CHE 2070 Chemical Thermodynamics	3	C	
CHE 2080 CHE Fluid Mechanics	3	C	
CHE 3015 Multicomponent Thermo	3	C	
CHE 3026 Heat Transfer	3	C	
CHE 3028 Mass Transfer	3	C	
CHE 3040 Unit Ops Lab I	3	C	
CHE 3070 Process Sim and Economics	3	C	
CHE 4050 Unit Ops Lab II	3	D	
CHE 4060 Reaction Engineering	3	C	
CHE 4070 Process Design I	4	C	
CHE 4080 Process Design II	4	C	C3
CHE 4090 Process Dynamic and Control	3	D	
Credit hours subtotal:			45
Major Related Courses			
CHEM 1060 Adv General Chemistry II	4	C	
CHEM 2420 Organic Chemistry I	4	C	
CHEM 2440 Organic Chemistry II	4	D	
CHEM 4507 Physical Chemistry	3	D	
PHYS 1210 Engineering Physics I	4	C	
PHYS 1220 Engineering Physics II	4	D	
MATH 2205 Calculus II	4	C	Q

MATH 2210 Calculus III	4	C	
MATH 2310 Applied Differential Equations I	3	C	
Technical Electives (complete all)			
Technical Elective #1			
Technical Elective #2			
Technical Elective #3			
Technical Elective #4			
Technical Elective #5			
Technical Elective #6	18		See Technical Electives note
Credit hours subtotal:			52
B.S. Chemical Engineering total credit total:			127

Chemical Engineering Major Notes:

- A minimum of 127 hours is required. A minimum of 48 hours must be upper division (3000-4000 level).
- **Technical Electives Note** : Eighteen (18) hours of Technical Electives are required. Ten (10) credits of Technical Electives must be upper division. A minimum of three (3) credits of Technical Electives must be CHE. Technical Electives must be selected with Advisor's approval from Department list or Department's documented approval.
- No more than two (2) upper division CHE transfer courses can be applied to the CHE degree. CHE 4070 and CHE 4080 cannot be transferred to UW. All CHE transfer courses must be completed with a grade of C- or better.
- 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 CHE courses attempted at UW.
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.

University of Wyoming Requirements

- Students must have a minimum cumulative GPA of 2.0 to graduate.
- Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming.
- Courses must be taken for a single letter grade unless offered only for S/U.
- University Studies Program (USP), Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

The University of Wyoming Office of the Registrar provides final approval of degree completion requirements prior to the awarding of any degree.