

Chemical Engineering and Technology Curriculum

	Term	Course Name	Credit	Class Hour				Course Type
				Lecture	Experiment	Computer	Practice	
1st Academic Year	1st Semester	Basic Law	2.5	40				Compulsory
		Military Theory	0.5	8				Compulsory
		Military Training	3				3 week	Compulsory
		Physical Education	1	4			18	Compulsory
		Advanced Mathematics(I)	4.5	72				Compulsory
		Descriptive Geometry and Drawing D	3	48				Compulsory
		Language(I)	3	48				Compulsory
		College Computer Science	2	24			12	Compulsory
		Inorganic Chemistry(I)	3	48				Compulsory
		Basic Chemical Experiment (inorganic) (I)	0.5			12		Compulsory
		Health Education	0.5					
		Total	23.5					
	2nd Semester	College Physics(I)	3.5	56				Compulsory
		Chinese Modern History	1.5	24				Compulsory
		Inorganic Chemistry(II)	1.5	24				Compulsory
		Language(II)	3	48				Compulsory
		Physical Education(II)	1	4			18	Compulsory
		Advanced Mathematics(II)	6.5	104				Compulsory
		Analytical Chemistry	2	32				Compulsory
		C Language Program	3	32			24	Compulsory
		Basic Chemical Experiment(inorganic)(II)	1			24		Compulsory
		Basic Chemical Experiment (I)	0.5			12		Compulsory
Comprehensive Course		2	32				Optional	
Total		25.5						
3rd Semester	Introduction of Chemical Engineering & Pharmacy	2	32				Compulsory	
	Basic Chemical Experiment(inorganic)(II)	0.5			12		Compulsory	
	Basic Chemical Experiment (I)	0.5			12		Compulsory	
	Total	3						
2nd Academic Semester	1st Semester	Language(III)	3	48				Compulsory
		Physical Education(III)	1	4			18	Compulsory
		Probability and Statistics	3	48				Compulsory
		College Physics(II)	3	48				Compulsory
		Politics	2.5	40				Compulsory
		Electrical Engineering and	2	32				Compulsory

		Technology							
		College Physics Experiment(I)	1	4	24			Compulsory	
		Organic Chemistry(I)	2.5	40				Compulsory	
		Basic Chemical Experiment(Organic)(I)	1		24			Compulsory	
		Basic Chemistry(Analysis)(II)	1.5		36			Compulsory	
		Comprehensive Course	2	32				Optional	
		Total	22.5						
	2nd Semester	Language(IV)	3	48				Compulsory	
		Politics	4	64				Compulsory	
		College Physical Experiment(II)	1		24			Compulsory	
		Organic Chemistry(II)	2	32				Compulsory	
		Basic Chemical Experiment(Materialization)(I)	1		24			Compulsory	
		Basic Chemical Experiment(Analysis)(II)	0.5		12			Compulsory	
		Electrical Engineering	2	48				Compulsory	
		Linear Algebra	3	48				Compulsory	
		Physical Chemistry(I)	2.5	40				Compulsory	
		Electrical Engineering Experiment	0.5		12			Compulsory	
		Physical Education(IV)	1	4			18	Compulsory	
		Comprehensive Course	2	32				optional	
	Total	22.5							
	3rd Semester	Cognition Practice	2				2 week	Compulsory	
		Biological Chemistry	2	32				Compulsory	
		Basic Chemical Experiment(Materialization)(I)	0.5		12			Compulsory	
		Basic Chemical Experiment(Analysis)(I)	0.5		12			Compulsory	
		Total	5						
	3rd Academic Semester	1st Semester	Principle of Chemical Engineering(I)	3	48				Compulsory
			Principle of Chemical Engineering Experiment(I)	0.5		12			Compulsory
Basic Chemical Experiment(Materialization)(II)			1		24			Compulsory	
Biological Chemistry Experiment			0.5		12			Compulsory	
Physical Chemistry(II)			2.5	40				Compulsory	
Chemical Instruments and Automation			2	32				Compulsory	
Chemical Engineering Thermodynamics			3	48				Compulsory	

		Engineering Mechanics	2	32				optional	
		Total 2 Credits	Energy Chemical Engineering	2	32				optional
			Petroleum Chemistry	2	32				optional
			Comprehensive Course	2	32				optional
		Total	18.5						
	2nd Semester	Principle of Chemical Engineering(II)	3	48				Compulsory	
		Principle of Chemistry Experiment(II)	1		24			Compulsory	
		Basis of Chemical Instrument	3	48				Compulsory	
		Analysis and Synthesis of Chemical Process	2	32				Optional	
		Reaction Engineering	3	48				Compulsory	
		Total 5.5 Credits	Chemical Calculation	3	48				Optional
			Theory of Membrane Separation	2	32				Optional
			Introduction of Industrial Catalysis	2.5	40				Optional
			Zeolite Molecular Sieve Catalyst	2	32				Optional
			Science and Progress of Catalysis	2	32				Optional
			Chemical Power and Technology	2.5	40				Optional
			Analysis of Modern Instrument	2	32				Optional
		Total	17.5						
		3rd Semester	Production Practice	6				6 week	Compulsory
	Total		6						
4th Academic Semester	1st Semester	Chemical Engineering and Technology Experiment	2		48			Compulsory	
		Transfer Procedure	3	48				Optional	
		Bioseparation Engineering	2	32				Optional	
		Chemical Technology	5					Compulsory	

		Chemical Design	6				Compulsory
		Chemical Safety	2	32			Compulsory
		Chemical Standard	2	32			Compulsory
		Total	22				
	2nd Semester	Graduation Project	15			15 week	Compulsory
		Total	15				
Total			181				