

Four-year Program of Mechanical Engineering Required Courses																				
Course category	Courses name	Credits	Hours	Number of teaching hours																Note
				The first academic year				The second academic year				The third academic year				The fourth academic year				
				1'st Semester		2'nd Semester		1'st Semester		2'nd Semester		1'st Semester		2'nd Semester		1'st Semester		2'nd Semester		
				Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	
Common compulsory courses	Chinese Reading and Writing (I) (II)	4	4	2		2														
	English (I) (II) (III) (IV)	8	8	2		2		2		2										
	Sports	4	4	2		2														
	Computer Application (I) (II)	4	4	2		2													computeried course	
Common compulsory courses	Labor education	2	2	1		1														
	Introduction to Artificial Intelligence	2	2					2											computeried course	
	Paper writing and academic ethics	2	2							2										
	Total	26	26	9/9		9/9		4/4.		4/4.										Credits/hours
General knowledge course	General knowledge course	12	12			4		4		4										
	Total	12	12			4/4.		4/4.		4/4.										Credits/hours
Professional compulsory courses	Calculus	3	3	3																
	Applied mechanics (Static)	3	3	3															Connection course	
	Mechanical drawing	2	2		2														Connection course Use the computer	
	Precision measuring instruments and practice	3	3	1	2														Practical course	
	Machinery manufacturing	3	3			3														
	Factory practice	3	3				3												Practical course	
	Computer-aided drawing	3	3				3												computeried course	
	Mechanism	3	3					3												
	Mechanics of materials	3	3					3												
	CNC machine tool	3	3					3												
	Mechanical material test	3	3						3										Practical course	
	Mechanical design	3	3							3										
	CNC machine tool practice	3	3								3								Practical course	
	Thermodynamics	3	3									3								
	Electrical machinery	3	3									3								
	Practical Project (I)	2	2										2						Practical course	
Heat flow experiment	3	3												3				Practical course		
Electric experiment	3	3												3				Practical course		
Practical Project (II)	2	2													2			Practical course		
Total		54	54	11/11.		9/9		12/12		6/6		8/8		8/8				Credits/hours		
Professional elective courses (at least)		36	36							6/6		6/6		6/6		9/9		9/9 Credits/hours		
Total		128	128	20/20.		22/22		20/20.		20/20.		14/14.		14/14.		9/9		9/9 Credits/hours		

1. 128 credits for graduation = 26 credits of joint compulsory course + 12 credits of general course + 54 credits of professional compulsory course + 36 credits of professional elective course.Two. Labor education is compulsory 2 credits. 3. University students must pass the Chinese and English ability test, and those who fail need to participate in supplementary teaching. 4. This department has a graduation threshold system. After completing the graduation credits, you still have to pass the graduation threshold inspection before graduation.

Implemented from the freshmen of the 113th academic year

Four-year Program of Mechanical Engineering Professional Elective Courses

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Four-year Program of Vehicle Engineering Group, Department of Mechanical Engineering Required Courses																				
Course category	Courses name	Credits	Hours	Hours																Note
				The first academic year				The second academic year				The third academic year				The fourth academic year				
				1'st Semester		2'nd Semester		1'st Semester		2'nd Semester		1'st Semester		2'nd Semester		1'st Semester		2'nd Semester		
				Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	
Common compulsory courses	Chinese Reading and Writing (I) (II)	4	4	2		2														
	English (I) (II) (III) (IV)	8	8	2		2		2		2										
	Sports	4	4	2		2														
	Computer Application (I) (II)	4	4	2		2														computeried course
Common compulsory courses	Labor education	2	2	1		1														
	Introduction to Artificial Intelligence	2	2					2												computeried course
	Paper writing and academic ethics	2	2							2										
	Total	26	26	9/9		9/9		4/4		4/4										Credits/hours
General knowledge course	General knowledge course	12	12			4		4		4										
	Total	12	12			4/4		4/4		4/4										Credits/hours
Professional compulsory courses	Calculus	3	3	3																
	Applied mechanics (Static)	3	3	3																Connection course
	Mechanical drawing	2	2		2															Connection course Use computer
	Precision measuring instruments and practice	3	3	1	2															Practical course
	Vehicle chassis technology	3	3			3														
	Vehicle engine control	3	3			3														
	Factory practice	3	3				3													Practical course
	Vehicle electrical system control	3	3					3												
	Mechanical science	3	3					3												
	Locotive maintenance practice	3	3						3											Practical course
	Vehicle Engineering Practice (I) - Engine	3	3						3											Practical course
	Electrical engineering	3	3							3										
	Vehicle Engineering Practice (II) - Engine and Chassis	3	3								3									Practical course
	Electric experiment	3	3									3								Practical course
	Vehicle Engineering Practice (III) - Engine and Electrical System	3	3										3							Practical course
	Practical Project (I)	2	2										2							Practical course
	Heat flow experiment	3	3											3						Practical course
	Vehicle Engineering Practice (IV) - Comprehensive	3	3												3					Practical course
Practical Project (II)	2	2													2				Practical course	
Total	54	54	11/11		9/9		12/12		6/6		8/8		8/8						Credits/hours	
Professional elective courses (at least)		36	36							6/6		6/6		6/6		9/9		9/9		Credits/hours
Total		128	128	20/20		22/22		20/20		20/20		14/14		14/14		9/9		9/9		Credits/hours
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Four-year Program of Mechanical Engineering Department Vehicle Group Professional Elective Courses																					
Course category	Course Name	Credits	Hours	Number of teaching hours																Note	
				The first academic year				The second academic year				The third academic year				The fourth academic year					
				1'st semester		2'nd Semester		1'st semester		2'nd Semester		1'st semester		2'nd Semester		1'st semester		2'nd Semester			
				Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice	Teaching	Practice		
Professional Elective Courses	Machinery manufacturing	3	3							3											
	Automatic transmission technology	3	3							3											
	Internal combustion engine	3	3							3											
	Introduction to Green Energy	3	3							3											
	Creative design thinking	3	3							3											
	Inventor Advanced Drawing	3	3								3									computeried course	
	The actual inspection of locomotives	3	3								3										
	Advanced vehicle technology	3	3									3									
	Quality control	3	3									3									
	Introduction to self-driving cars	3	3										3								
	Industrial safety and hygiene	3	3										3								
	Automotive spraying technology	3	3										3								
	Jet locomotive practice	3	3											3						Practical course	
	Vehicle kinetics mechanics	3	3												3						
	Car vibration and noise	3	3												3						
	Vehicle development and project management	3	3												3						
	Vehicle marketing management	3	3												3						
	Vehicle Electronics	3	3												3						
	Vehicle sensing and control	3	3												3						
	Innovation and entrepreneurship	3	3												3						
	Automobile circuit fault inspection practice	3	3													3				Practical course	
	Vehicle electronic technology	3	3														3				
	Electric control system for locomotives	3	3														3				
	Innovative inventions and patents	3	3														3				
	Car air conditioning	3	3														3				
	Hybrid vehicle	3	3														3				
	Service factory reception response	3	3															3		Practical course	
	Internship (I)	3	3															3		Practical course	
	Internship (II)	3	3															3		Practical course	
	Internship (III)	3	3															3		Practical course	
	AI machine vision system	3	3																3		
	Car painting	3	3																3		
	Electric car	3	3																3		
	Vehicle service industry factory management	3	3																3		
	Principle and technology of self-driving car	3	3																3		
	Factory management	3	3																3		
	High-level diagnostic practice	3	3																	3	Practical course
	Internship (IV)	3	3																	3	Practical course