## **Curriculum List of CE**

## (1)Sorted by Semester

Semester	Course	Contact	Self-study	Total	ECTS	
Semester	Course	Hour	Hour	Hour	ECIS	
	Advanced Mathematics	160	35	195	6.5	
	College English (1)		26	90	3	
	Mechanical Drawing	64	71	135	4.5	
	Engineering Mechanics	32	58	90	3	
	Medical Ethics*	32	28	60	2	
1	Outline of Modern Chinese History	48	12	60	2	
	Situation and Policy	32	13	45	1.5	
	Physical Education	144	6	150	5	
	Public electives-1	16	14	30	1	
		To	tal-1	855	28.5	
	College Physics	32	43	75	2.5	
	College Physics Experiment	16	14	30	1	
	College English (2)	64	26	90	3	
	C Program Design	48	72	120	4	
	Circuit Theory	48	27	75	2.5	
	Clinical Engineering Introduction	32	58	90	3	
	Ethics and Rule of Law	48	12	60	2	
2	Military Theory	36	9	45	1.5	
	Military Skill	64	11	75	2.5	
	Mental Health Education for University					
	Students	32	13	45	1.5	
	Comprehensive Practice of Mechanical Drawing	32	43	75	2.5	
	Public electives-2	16	14	30	1	
		To	tal-2	790	27	
	Probability Theory and Mathematical Statistics	32	58	90	3	
	Normal Anatomy and Physiology	64	71	135	4.5	
	College English (3)	64	26	90	3	
	Foundation of Mechanical Designing	48	72	120	4	
2	Analog Electronic Technology	64	56	120	4	
3	Introduction to Big Data*	32	28	60	2	
	Basic Principles of Marxism	48	12	60	2	
	Career Planning and Employment Guidance	16	14	30	1	
	Public electives-3	16	14	30	1	
		To	Total-3		24.5	

Semester	Course	Contact Hour	Self-study Hour	Total Hour	ECTS
	Linear Algebra	48	72	120	4
	Foundation of Disease	32	58	90	3
	College English (4)	64	26	90	3
	Literature Retrieval Course	32	43	75	2.5
	Digital Electronic Technology	48	72	120	4
	Medical Electrical Safety Engineering	48	87	135	4.5
4	Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics	48	12	60	2
	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	32	13	45	1.5
	Comprehensive Experiment of Analog Electronic Technology	32	43	75	2.5
	Comprehensive Experiment of Digital Electronic Technology	32	43	75	2.5
	Medical Electrical Safety Training	32	43	75	2.5
	Clinical Engineering Creativity	32	43	75	2.5
	Public electives-4	16	14	30	1
		To	tal-4	1065	35.5
	Principles and Applications of Medical Statistics	48	72	120	4
	Microcontroller Principles and Applications	48	72	120	4
	Biomedical Materials	32	58	90	3
	Biomedical Detection Technology	48	87	135	4.5
~	Hydraulic and Pneumatic Technology	32	58	90	3
5	Introduction to Medical Device Regulation Science	32	58	90	3
	Medical Imaging Equipment	32	58	90	3
	Advanced Clinical Engineering	32	58	90	3
	Medicine and Humanity	32	13	45	1.5
	Public electives-5	16	14	30	1
		To	tal-5	900	30
	Therapeutic Equipment Technology	48	87	135	4.5
6	Principle and Applications of Life Support Equipment	48	87	135	4.5
	Biomedical Optics*	32	28	60	2
	Principles of Medical Imaging*	32	28	60	2

Semester	Course	Contact	Self-study	Total	ECTS
		Hour	Hour	Hour	
	Mathematical Modeling*	32	28	60	2
	Clinical Skills	48	72	120	4
	Medical Internship	64	26	90	3
	Public electives-6	16	14	30	1
		To	otal-6	690	23
	Fundamentals and Applications of MATLAB*	32	28	60	2
	Technical English for Clinical Engineering*	32	28	60	2
7	Intelligent Medical Robot*	32	28	60	2
7	Internet and Information Security*	32	28	60	2
	Social practice	128	22	150	5
	Labor education	32	13	45	1.5
	Innovation and entrepreneurship	64	56	120	4
		To	tal-7	555	18.5
0	Bachelor Thesis	0	480	480	16
8		To	Total-8		16
		то	TOTAL		203 (199**)

## **Directions:**

<sup>\*</sup> Professional electives. Each student should achieve 14 ECTS in total before graduation.

<sup>\*\*</sup> The actual study hour for each student is 6000 (ECTS = 200).

## (2) Sorted by Type

2) Sorted by 1	урс	Study	Semester Semester									
Type of Curriculum	Name	Hour (Contact+	EC TS	S1	S2	S3	S4	S5	S6	S7	S8	
	Advanced	Self-study)		51	32	.55	54	.55	50	37	50	
	Mathematics Probability Theory and Mathematical	32+58	6.5	3.5	3	3						
	Statistics Linear Algebra	48+72	4				4					
Mathematics	College Physics	32+43	2.5		2.5							
and natural sciences	College Physics Experiment	16+14	1		1							
28.5ECTS	Normal Anatomy and Physiology	64+71	4.5			4.5						
	Foundation of Disease	32+58	3				3					
	Principles and Applications of Medical Statistics	48+72	4					4				
	College English (1)	64+26	3	3								
Foreign Languages	College English (2)	64+26	3		3							
12ECTS	College English (3)	64+26	3			3						
	College English (4)	64+26	3				3					
Informatics	C Program Design	48+72	4		4							
6.5ECTS	Literature Retrieval Course	32+43	2.5				2.5					
	Circuit Theory	48+27	2.5		2.5							
	Mechanical Drawing	64+71	4.5	4.5								
	Engineering Mechanics	32+58	3	3								
	Foundation of Mechanical Designing	48+72	4			4						
Engineering Fundamentals	Analog Electronic Technology	64+56	4			4						
29ECTS	Digital Electronic Technology	48+72	4				4					
	Microcontroller Principles and Applications	48+72	4					4				
	Clinical Engineering Introduction	32+58	3		3							
	Medical Electrical Safety Engineering	48+87	4.5				4.5					
	Biomedical Materials	32+58	3					3				
Engineering Applications 33ECTS	Therapeutic Equipment Technology	48+87	4.5						4.5			
33ECIS	Principle and Applications of Life Support Equipment	48+87	4.5						4.5			
	Biomedical Detection	48+87	4.5					4.5				

		Study					Sem	ester			
Type of Curriculum	Name	Hour (Contact+	EC TS	S1	S2	S3	S4	S5	S6	S7	S8
	Technology	Self-study)		51	52	50	J.	55	50	57	50
	Hydraulic and										
	Pneumatic	32+58	3					3			
	Technology Introduction to										
	Medical Device	32+58	3					3			
	Regulation Science										
	Medical	22   50	2					1			
	Imaging Equipment	32+58	3					3			
	Advanced Clinical	32+58	3					3			
	Engineering	32+36	3					3			
	Biomedical Optics	32+28	2						2		
	Principles of		_						_		
	Medical Imaging	32+28	2						2		
	Mathematical	32+28	2						2		
	Modeling Fundamentals										
	and Applications of	32+28	2							2	
Electives	MATLAB										
	Technical English for										
14ECTS	Clinical	32+28	2							2	
	Engineering Medical Ethics	32+28	2	2							
	Introduction to			2							
	Big Data	32+28	2			2					
	Intelligent Medical Robot	32+28	2							2	
	Internet and Information	32+28	2							2	
	Security	32120									
	Ethics and Rule of Law	48+12	2		2						
	Outline of Modern Chinese	49 + 12	2	2							
	History	48+12	2	2							
	Basic Principles of Marxism	48+12	2			2					
	Introduction to										
	Mao Zedong Thought and the										
	Theoretical System of	48+12	2				2				
	Socialism with										
General	Chinese Characteristics										
Courses	Introduction to										
40.5ECTS	Xi Jinping Thought on										
	Socialism with Chinese	32+13	1.5				1.5				
	Characteristics										
	for a New Era Situation and	22:12		0.5							
	Policy	32+13	1.5	0.5	0.5	0.5					
	Military Theory	36+9	1.5		1.5						
	Military Skill	64+11	2.5		2.5						
	Physical Education	144+6	5	1	1	1	1	0.5		0.5	
	Mental Health Education for	32+13	1.5		1.5						
	University	-2-15									

T		Study Hour	EC				Sem	ester			
Type of Curriculum	Name	(Contact+ Self-study)	TS	S1	S2	S3	S4	S5	S6	S7	S8
	Students	,									
	Career Planning and Employment Guidance	16+14	1			0.25	0.25	0.25	0.25		
	Medicine and Humanity	32+13	1.5					1.5			
	Public Elective Courses	(16+14)×6	6	1	1	1	1	1	1		
	Social Practice	128+22	5								
	Labor Education	32+13	1.5								
	Innovation and Entrepreneurshi p	64+56	4								
	Comprehensive Practice of Mechanical Drawing	32+43	2.5		2.5						
	Comprehensive Experiment of Analog Electronic Technology	32+43	2.5				2.5				
Experiments and Practice	Comprehensive Experiment of Digital Electronic Technology	32+43	2.5				2.5				
	Medical Electrical Safety Training	32+43	2.5				2.5				
	Clinical Engineering Creativity	32+43	2.5				2.5				
	Clinical Skills	<del>48+72</del>	<mark>4</mark>						4		
	Medical Internship	64+26	3						3		
Experiments and Practice	Bachelor Thesis	0+480	16								16
10EC13	Total	5070	100								
	Total	5970	199								