

## 08 Study Plan or Curricular Overview for Electronic Information Engineering

This part presents the eight-semester curriculum arrangement for the major of Electronic Information Engineering at Changchun Institute of Technology. In accordance with the curriculum system and requirements, it details the course name, nature, contact credits, class hours, ECTS credits, self-study hours and total hours for each semester.

Order Number	Curriculum System	Course Category	Course Code	Course Title	Type	Contact Credit	Total Hours	Lecture Hours	Practice	ECTS Credit	Self Study Hour	Total class hours	Semester
1	obligatory	liberal education	my01031010	Ideology and Moral Cultivation and Law Basis	Lecture	3.0	48	40	8	3.0	42	90	I
2	obligatory	liberal education	my02051010	Outline of Modern Chinese History	Lecture	3.0	48	40	8	3.0	42	90	I
3	obligatory	liberal education	my05011011	Situation and Policy 1	Lecture	0.25	8	7	1	0.25	0	8	I
4	obligatory	liberal education	wy01011011	College English I	Lecture	4.0	64	64		4.0	56	120	I
5	obligatory	liberal education	ty01011011	College Physical Education and Health	Lecture	0.5	32	32		1.0	0	32	I
6	obligatory	liberal education	ty04011010	Military Theory	Lecture	1.0	36	36		1.0	0	36	I
7	obligatory	liberal education	xl01011010	Mental Health Education For College Students	Lecture	2.0	32	24	8	2.0	28	60	I
8	obligatory	liberal education	my04031020	Learning to Build Dreams Elective Course	Lecture	1.0	16	16		1.0	14	30	I
9	obligatory	natural science courses	lx01011011	Advanced Mathematics I	Lecture	5.0	80	80		5.0	70	150	I
10	obligatory	natural science courses	sh06321010	Introduction to Environmental Science	Lecture	1.0	16	16		1.0	14	30	I
11	obligatory	engineering	yg04022010	Fundamentals of College Computer	Lecture	2.0	32	16	16	3.0	58	90	I
12	obligatory	concentrated	ty04601010	Military skills	Practice	1.0	120		120	4.0	0	120	I
Total						23.75	532	371	161	28.25	324	856	
13	obligatory	liberal education	my05011012	Situation and Policy	Lecture	0.25	8	7	1	0.25	0	8	II
14	obligatory	liberal education	wy01011012	College English II	Lecture	4.0	64	64		4.0	56	120	II
15	obligatory	liberal education	ty01011012	College Physical Education and Health	Lecture	0.5	32	32		1.0	0	32	II

16	obligatory	liberal education	jg05201020	Big data and artificial intelligence	Lecture	1.0	16	10	6	1.0	14	30	II
17	obligatory	liberal education	my02031020	History of the Communist Party of China	Lecture	1.0	16	16		1.0	14	30	II
18	obligatory	liberal education	my02041020	History of New China									
19	obligatory	liberal education	my04051020	History of Reform and Opening-up									
20	obligatory	liberal education	my03031020	History of Socialist Development									
21	obligatory	liberal education	dq04281021	Career Guidance and Career Planning for College Students	Lecture	0.5	18	18		1.0	12	30	II
22	obligatory	natural science courses	lx01011012	Advanced Mathematics	Lecture	5.0	80	80		5.0	70	150	II
23	obligatory	natural science courses	lx02022010	Linear Algebra II	Lecture	2.5	40	40		2.5	35	75	II
24	obligatory	natural science courses	lx03022010	College Physics Experiment II	Lecture	2.0	32		32	2.0	28	60	II
25	obligatory	natural science courses	lx03011011	College Physics I	Lecture	3.0	48	48		3.0	42	90	II
26	obligatory	engineering foundation	jg05021010	Fundamentals of Computer Programming (C Language)	Lecture	3.0	48	24	24	4.0	72	120	II
27	obligatory	engineering	jd01202010	Engineering Drawing	Lecture	2.5	40	40		3.5	65	105	II
28	obligatory	concentrated	gx00611010	Engineering training	Practice	1.0	20		20	1.5	25	45	II
29	obligatory	liberal education	gj01021010	Writing and Communication	Lecture	1.0	16	16		1.0	14	30	II
Total						27.25	478	395	83	30.75	447	925	
30	obligatory	liberal education	my03041010	Fundamentals of Marxism	Lecture	3.0	48	48		3.0	42	90	III
31	obligatory	liberal education	my05011013	Current Situation and Policies	Lecture	0.25	8	7	1	0.25	0	8	III
32	obligatory	liberal education	ty01011013	Current Situation and Policies	Lecture	0.5	32	32		1.0	0	32	III
33	obligatory	liberal education	sc01021020	Innovative Methods and Practices	Lecture	1.5	24	24		1.5	21	45	III
34	obligatory	natural science courses	lx02032010	Probability theory and mathematical statistics I	Lecture	3.0	48	48		3.0	42	90	III
35	obligatory	natural science	lx03011012	College Physics I	Lecture	3.0	48	48		3.0	42	90	III
36	obligatory	natural science	lx02042010	Functions of a Complex Variable	Lecture	2.5	40	40		2.5	35	75	III

37	obligatory	engineering	dq01024010	Circuit Theory	Lecture	4.0	64	54	10	5.5	101	165	III
38	obligatory	professional foundation	jg05111010	Data Structures and Algorithms	Lecture	2.0	32	20	12	3.0	58	90	III
39	obligatory	concentrated	dq04601010	Professional Cognition Practice	Practice	1.0	20		20	1.5	25	45	III
40	obligatory	concentrated practice	dq04701010	MATLAB Fundamentals and Applications Training	Practice	1.0	20		20	1.5	25	45	III
41	obligatory	art courses	ys06021010	Aesthetic Education in Universities	Lecture	2.0	32	32		2.0	28	60	III
Total						23.75	416	353	63	27.75	419	835	
42	obligatory	liberal education	my04212010	Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics	Lecture	3.0	48	40	8	3.0	42	90	IV
43	obligatory	liberal education	my05011014	Current Situation and Policies	Lecture	0.25	8	7	1	0.25	0	8	IV
44	obligatory	liberal education	ty01011014	College Physical Education and	Lecture	0.5	32	32		1.0	0	32	IV
45	obligatory	liberal education	sc01011020	Entrepreneurship foundation	Lecture	1.5	24	24		1.5	21	45	IV
46	obligatory	engineering foundation	dq01031010	Analog Electronic Technology	Lecture	3.5	56	46	10	5.0	94	150	IV
47	obligatory	engineering	dq04011010	Signals and Systems	Lecture	3.0	48	42	6	4.0	72	120	IV
48	obligatory	engineering	dq03012010	Signals and Systems	Lecture	2.0	32	32		3.0	58	90	IV
49	obligatory	engineering foundation	lx03031010	Electromagnetic Fields and Electromagnetic	Lecture	2.0	32	32		3.0	58	90	IV
50	obligatory	professional foundation	dq04021010	Information Theory&Coding	Lecture	2.0	32	32		3.0	58	90	IV
51	elective	professional	jg05081020	C++ Programming	Lecture	2.0	32	16	16	2.5	43	75	IV
52	obligatory	concentrated practice	dq01611010	Electronic Process Internship	Practice	2.0	40		40	3.0	50	90	IV
Total						21.75	384	303	81	29.25	496	880	
53	obligatory	liberal education	my04011010	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a	Lecture	3.0	48	40	8	3.0	42	90	V

54	obligatory	liberal education	my05011015	Current Situation and Policies	Lecture	0.25	8	7	1	0.25	0	8	V
55	obligatory	engineering	dq01041010	Digital Electronic Technology	Lecture	3.0	48	40	8	4.0	72	120	V
56	obligatory	professional foundation	dq04031010	Digital Signal Processing	Lecture	2.5	40	34	6	3.5	65	105	V
57	obligatory	professional foundation	dq04041010	High-frequency Circui	Lecture	3.0	48	38	10	4.0	72	120	V
58	obligatory	professional foundation	dq04051010	Principles and Applications of Single-Chip	Lecture	3.0	48	36	12	4.0	72	120	V
59	elective	professional foundation	dq04101020	Python-based Machine Learning Practice	Lecture	2.0	32	18	14	2.5	43	75	V
60	elective	professional foundation	dq04132020	Virtual Instrument Technology and Its Applications	Lecture	1.5	24	6	18	2.0	36	60	V
61	elective	professional foundation	dq04142020	Sensor Detection Technology	Lecture	2.0	32	26	6	2.5	43	75	V
62	obligatory	concentrated practice	dq04611010	Electronic Circuit PCB Design Training	Practice	2.0	40		40	3.0	50	90	V
63	obligatory	concentrated practice	xy01631010	Labor Education and Practice	Practice	1.0	32		32	1.0	0	32	V
Total						23.25	400	245	155	29.75	495	895	
64	obligatory	liberal education	my05011016	Current Situation and Policies	Lecture	0.25	8	7	1	0.25	0	8	VI
65	obligatory	liberal education	dq04281022	Career Guidance and Career Planning for College Students	Lecture	0.5	20	20		1.0	10	30	VI
66	obligatory	professional foundation	dq04061010	Communication Principle	Lecture	3.0	48	36	12	4.0	72	120	VI
67	obligatory	specialized course	dq04071010	EDA Technology and Application	Lecture	3.0	48	32	16	4.0	72	120	VI
68	obligatory	specialized course	dq04091010	Digital Image Processing	Lecture	2.0	32	20	12	3.0	58	90	VI
69	obligatory	specialized course	dq04231010	Cortex-M3 Development and Practice	Lecture	2.5	40	28	12	3.5	65	105	VI
70	obligatory	specialized course	dq04251010	Development Technology and Practice	Lecture	2.0	32	20	12	3.0	58	90	VI
71	obligatory	economics and management	gl04062020	Engineering Economics	Lecture	1.5	24	24		2.0	36	60	VI

72	obligatory	concentrated practice	dq04632010	Course Design of Single-Chip Microcomputer System Application	Practice	2.0	32		32	3.0	58	90	VI
73	obligatory	concentrated practice	dq04761010	Course Design for EDA Technology and Application	Practice	2.0	32		32	3.0	58	90	VI
74	obligatory	liberal education	sc01601010	Innovation and Entrepreneurship Training	Practice	2.0	32		32	2.0	28	60	I-VIII
Total						20.8	348	187	161	28.75	515	863	
75	obligatory	concentrated practice	dq04771010	Course Design for Application of Embedded System	Practice	2.0	32		32	3.0	58	90	VII
76	obligatory	concentrated	dq04711010	Training for Specialized English	Practice	1.0	20		20	1.5	25	45	VII
77	obligatory	concentrated	dq04781010	Comprehensive Practice of	Practice	6.0	120		120	9.0	150	270	VII
78	obligatory	concentrated practice	dq04791010	Practice Training of Signal and Image Processing	Practice	4.0	80		80	6.0	100	180	VII
79	obligatory	concentrated	dq04752010	Industrial Production	Practice	6.0	120		120	9.0	150	270	VII
80	obligatory	liberal education	my05011017	Current Situation and Policies	Lecture	0.25	8	7	1	0.25	0	8	VII
Total						19.25	380	7	373	28.75	483	863	
81	obligatory	graduation	dq04691010	Graduation Project	Graduation	15.0	240	240		22.5	435	675	VIII
82	obligatory	liberal education	my05011018	Current Situation and Policies	Lecture	0.25	8	7	1	0.25	0	8	VIII
83	obligatory	liberal education		General Education Elective Courses	Lecture	2.0	0	0		2.0	60	60	I-VIII
84	obligatory	liberal education	tw01601010	Social Practice	Practice	1.0	16	0	16	1.0	14	30	I-VIII
85	obligatory	liberal education	tw01611010	Club Activities	Practice	1.0	16	0	16	1.0	14	30	I-VIII
Total						19.25	280	247	33	26.75	523	803	
Amount to						179.0	3218	2108	1110	230.0	3702	6920	