北京航空航天大學
BEIHANG UNIVERSITY

Bachelor Program of Electronic Information Engineering

[Introduction to School of Electronics and Information Engineering]:

The School of Electronic and Information Engineering (SEIE) of Beihang University (originally Department of Electronic Engineering) is one of the earliest department of aeronautic electronic engineering founded in China, which has a history of 50 years.

SEIE composes of more than ten multidiscipline research laboratories and centers including a national open laboratory for electronic system and measurement-control technology, an key avionics laboratory of aviation ministry, a teaching center of experiment and practice, GPS research center, BUAA-Angilent electronic R&D center, Ansoft-BUAA training center and Willim C.Y. Li communication R&D center, etc.

SEIE has 146 faculty and staff members, including 23 professors and 55 associate professors, where 22 professors are doctoral supervisors. The school has already cultivated more than 10000 undergraduates, graduates, doctors and post-doctoral fellows. The number of the students in campus is 960 for undergraduate students and more than 1000 for Master and PhD candidates.

In SEIE, Long term academic exchanges, joint laboratories and contracted projects have been established and performed with reputed universities, research institutes and industries in China and abroad.

Education Curriculum:

the 1st Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	工科高等数学（Ⅰ） Advanced Mathematics (Ⅰ)	6.0	90	90	0	0	NSC	Examination	Compulsory
2	计算机文化基础 Basic Knowledge of Computer	2.0	44	26	0	18	FMC	Test	Compulsory
4	C 语言程序设计 C Programming Language	3.0	54	34	0	20	FMC	Examination	Compulsory
5	电子信息工程导论 Introduction to Electronic Information Engineering	1.0	18	18	0	0	FMC	Examination	Compulsory
6	中国概况 Introduction to China	1.0	18	18	0	0	HC	Test	Compulsory
7	汉语 （1） Chinese	3.0	64	64	0	0	HC	Examination	Compulsory
8	工程认识实习 Engineering Cognition Practice	0.5	20	0	20	0	EPC	Test	Compulsory
		16.5	308						

the 2nd Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	工科高等数学（Ⅱ） Advanced Mathematics (Ⅱ)	5.0	86	86	0	0	NSC	Examination	Compulsory
2	工科大学物理（Ⅰ） College Physics (Ⅰ)	4.0	72	68	4	0	NSC	Examination	Compulsory
3	机械工程引论 Introduction to Mechanical Engineering	3.5	62	54	8	0	FMC	Examination	Compulsory
4	航空航天概论 Introduction to Aeronautics and Astronautics	1.5	26	26	0	0	FMC	Test	Elective

Add: Room1302, Building10 ,Zone B, Jin Ling Garden, Xian Xialing Road No.12, Laoshan District, Qingdao, Shandong, P.R. China
Email: admission@sicas.cn , service@sicas.cn, studyinchina@sicas.cn,lulu77585212002@yahoo.com
Fax: +86+532+88893256, +86-18663920002,

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5	计算机软件技术基础 Software Technical Fundament	3.5	70	52	0	18	FMC	Examination	Compulsory
6	汉语（2） Chinese(2)	3.0	64	64	0	0	HC	Examination	Compulsory
7	金工实习 B Metalworking Practice (B)	2.0	80	0	80	0	EPC	Test	Compulsory
		22.5	460						

the 3rd Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	工科高等代数 Advanced Algebra	6.0	114	80	34	0	NSC	Examination	Compulsory
2	工科大学物理（Ⅱ） College Physics （Ⅱ）	4.0	72	72	0	0	NSC	Examination	Compulsory
3	基础实验物理（Ⅰ） Physics Experiment (Ⅰ)	2.0	32	0	32	0	NSC	Examination	Compulsory
4	电路分析 Circuit Analysis	4.0	68	68	0	0	FMC	Examination	Compulsory
5	汉语（3） Chinese (3)	3.0	64	64	0	0	HC	Examination	Compulsory
6	复变函数与积分变换 Complex Functions & Integral Transformations	2.5	40	40	0	0	NSC	Examination	Elective, in Chinese
		21.5	350						

the 4th Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	基础实验物理（Ⅱ） Physics Experiment (Ⅱ)	1.5	24	0	24	0	NSC	Examination	Compulsory
2	汉语（4） Chinese （4）	3.0	64	64	0	0	HC	Examination	Elective
3	电子实习 Electronics Practice	2.0	80	0	80	0	EPC	Test	Compulsory
4	电磁场理论 Electromagnetic Field Theory	3.5	63	63	0	0	FMC	Examination	Compulsory
5	信号与系统 Signals and Systems	3.5	66	60	6	0	FMC	Examination	Compulsory
6	电子电路（Ⅰ） Analog Electronic Circuit （Ⅰ）	3.5	64	58	6	0	FMC	Examination	Compulsory
7	电气技术实践 A(I) Basic Practice on Electrical Technology （A Ⅰ）	2.0	36	0	36		FMC	Test	Compulsory
		19.0	397						

the 5th Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	概率统计与随机过程 Probability Statistics and Stochastic Process	3.0	54	54	0	0	FMC	Examination	Compulsory
2	数字电路与系统 Digital Circuit and System	3.5	60	60	0	0	FMC	Examination	Compulsory
3	微波技术 Microwave Technology	3.5	70	52	18	0	FMC	Examination	Compulsory
4	电子电路（Ⅱ） Analog Electronic Circuits （Ⅱ）	3.5	68	50	18	0	FMC	Examination	Compulsory

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5	电气技术实践（Ⅱ） Basic Practice on Electrical Technology （Ⅱ）	2.0	36	0	36	0	FMC	Test	Compulsory
		15.5	288						

the 6th Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	自动控制原理 Principle of Automatic Control	2.5	46	36	10	0	FMC	Examination	Compulsory
2	微机原理与接口技术 Principle and Interface Technique of Microcomputer	3.5	66	48	18	0	FMC	Examination	Compulsory
3	数字信号处理 Digital Signal Processing	3.5	66	54	12	0	FMC	Examination	Compulsory
4	信息理论基础 Basis of Information Theory	2.0	36	36	0	0	FMC	Examination	Compulsory
5	图像信号处理 Graphics and Signal Processing	3.0	54	36	18	0	FMC	Test	Elective, in Chinese
6	专业综合实验 Specialty Comprehensive Experiment	2.0	80	10	50	20	EPC	Test	Elective, in Chinese
7	电子测量 Electronic Measure	2.5	46	36	10	0	EPC	Test	Elective, in Chinese
8	嵌入式系统原理及应用 Principle and Application Of Embedded System	3.0	54	36	18	0	MC	Test	Elective, in Chinese
		22.0	214						

the 7th Semester

No.	Title	Credits	T	L	P	C	Type	Evaluation	Note
1	无线电导航 Radio Navigation	2.0	36	36	0	0	MC	Examination	Compulsory
2	通信天线与馈电系统 Antennas and Feed System for Communication	2.0	36	36	0	0	MC	Examination	Compulsory
3	EDA 基础 Foundation of Electronic Design Automation	3.5	64	28	36	0	FMC	Examination	Compulsory
4	通信原理 Principle of Communication	4.0	72	54	0	18	FMC	Examination	Compulsory
5	网络管理 Networks and Network Management	2.0	34	22	0	12	MC	Examination	Elective, in Chinese
6	遥控遥测原理 Telemetry and Telecommand Systems	2.0	36	36	0	0	MC	Test	Elective, in Chinese
7	软件无线电基础 Software Radio Fundament	2.5	48	36	12	12	MC	Test	Elective, in Chinese
8	DSP 原理与应用 DSP Principles and Application	2.0	38	18	20	0	MC	Test	Elective, in Chinese
		20.0	208						

the 8th Semester

1	毕业设计 Graduation Thesis	8	720	0	0	0			Compulsory

Explanatory Notes:

L: Lecture Class Hours（讲课学时） **P:** Experimental Practice Hours（实验学时） **C:** Computer Practice Hours（上机学时）
T: Total Class Hours（总学时） **NSC:** Natural Science Courses（自然科学类课程） **HC:** Humanities Courses（人文社科类课程）
EPC: Experiment and Practice Courses (科学与社会实践) **MC:** Major Courses (专业课程)
FMC: Fundamental Major Courses (学科与专业基础课程)

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