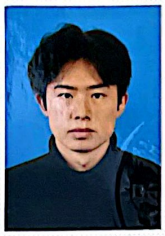
北京航空航天大學
BEIHANG UNIVERSITY

毕业证书



全日制普通高等教育

学生　刘兆薰　性别 男，二〇〇一 年 一 月 六 日生，于二〇一九 年 九 月至二〇二三 年 六 月在本校 计算机科学与技术 专业四年制本科学习，修完教学计划规定的全部课程，成绩合格，准予毕业。

北京航空航天大学　校长：

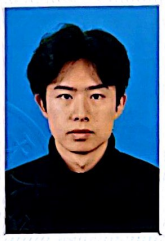
二〇二三年六月十三日

证书编号：100061202305001128

中华人民共和国教育部学历证书查询网址：http...chsi.com.cn

北京航空航天大學
BEIHANG UNIVERSITY

学士学位证书



刘兆薰，男，2001 年 01 月 06 日生。已完成 计算机科学与技术 专业学士学位培养计划。经北京航空航天大学学位评定委员会审议，授予 工学 学士学位。

校　长
学位评定委员会主席

二〇二三 年 六 月 十三 日

证书编号：1000642023000901

普通高等教育本科毕业生

Certified Translation (from Chinese into English, source document: electronic copy)

Mr Jiang Yu
CPN0EV36J
Chinese > English
Digitally Authenticated by NAATI
Stamp generated on 12/07/2023
Certified Translator
Scan QR code to verify credentials & stamp
https://my.naati.com.au/VerifyPractitioner?QrCode=65902988-be91-4653-83a0-b31fa0b118d9

Beihang University

Bachelor's Degree Certificate

Zhaoxun LIU, male, born on 6 January 2001, has completed his bachelor's degree programme in Computer Science and Technology. The Degree Evaluation Committee of Beihang University has conferred him the degree of Bachelor of Engineering.

Photo

President

Chairman of Academic Degree Evaluation Committee Yunpeng WANG (signed)

Certificate No.: 1000642023000901

13 June 2023

(Undergraduate of Regular Higher Education)

I, Jiang Yu, NAATI Certified Translator between English and Chinese (NAATI Practitioner ID: CPN0EV36J, Email: jiang@thetransfish.com, Mobile: +61-406648468), hereby certify that this is a true, complete and accurate translation of the original document from Chinese into English.
The translator, in providing this certification, gives no warrant as to the authenticity of the source document. Any unauthorised change to the translation renders this certification invalid.
Translations duly completed have the same validity as that of the original and are not affected by the translator's credential expiry date as shown in the NAATI stamp.

Certified Translation (from Chinese into English, source document: electronic copy)

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Scan QR code to verify credentials & stamp
https://my.naati.com.au/VerifyPractitioner?QrCode=65902988-be91-4653-83a0-b31fa0b118d9

Beihang University

Graduation Certificate

Photo

Student Zhaoxun LIU, male, born on 6 January 2001, studied in the four-year Bachelor's Degree Programme in Computer Science and Technology of the University from September 2019 to June 2023, completed all the courses stipulated in the teaching plan, passed the grades, and was allowed to graduate.

Full-time General Higher Education School name: Beihang University
Beihang University (sealed)
President: Yunpeng WANG (signed)

Certificate No.:100061202305001128

13 June 2023

The Official Website for School Diploma Verification of the Ministry of Education of the People's Republic of China:http:www.chsi.com.cn

I, Jiang Yu, NAATI Certified Translator between English and Chinese (NAATI Practitioner ID: CPN0EV36J, Email: jiang@thetransfish.com, Mobile: +61-406648468), hereby certify that this is a true, complete and accurate translation of the original document from Chinese into English.
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Translations duly completed have the same validity as that of the original and are not affected by the translator's credential expiry date as shown in the NAATI stamp.

BEIHANG UNIVERSITY Transcript of Academic Record

Student ID: 19373345 Name: Liu Zhaoxun School: School of Computer Science and Engineering

Major: Computer Science and Technology Class: 190614

Courses Title	Type	Hours	Credits	Grade	Marks	Courses Title	Type	Hours	Credits	Grade	Marks
Fall 2019						University Physics II	M	64	4	71	
Mathematical Analysis for Engineering(1)	M	96	6	78		Fundamental Physics Experiments I	M	32	1	82	
Advanced Algebra for Engineering	M	96	6	83		Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics	M	48	3	78	
Programming in Practice	M	48	2	84							
College English A1	M	64	4	92		Physical Education(3)	M	17	0.5	85	
Ideological and Moral Cultivation and Fundamentals of Law	M	32	2	82		Law, Technology and Society	M	32	2	86	
Physical Education(1)	M	16	0.5	93		Liberal Arts (III)	M	32	0.5	A	
Introduction to Computer Science and Computer Ethics	E	24	1.5	87		Discrete Mathematics (2)	M	48	3	60	
A Brief History of Computing—Promote the Evolution of Logic and Technology	E	16	1	87		Computer Organization	M	112	5.5	72	
						Profession planning and Choice	M	8	0.5	80	
Career Development Planning	E	16	1	90		Introduction to Intelligent Computing	E	32	2	90	
Liberal Arts (I)	M	32	0.5	B		Spring 2021					
Spring 2020						Fundamental Physics Experiments II	M	32	1	85	
Mathematical Analysis for Engineering (2)	M	96	6	98		Marxism Basic Principle	M	48	3	85	
Fundamental Physics(for Information Sciences)	M	64	4	92		Military Theory	M	32	2	82	
Basic training in electronic design	M	56	2	91		Physical Education(4)	M	16	0.5	82	
Discrete Mathematics (Information class)	M	32	2	92		Introduction to Acronautics and Astronautics A	M	32	2	83	
Data Structures and Programming (Information Class)	M	64	3	92		Introduction of Artificail Intelligence	M	32	2	91	
Fundamental of Engineering Graphics (Information class)	M	32	1.5	97		Liberal Arts (IV)	M	32	0.5	A	
College English A2	M	64	4	90		Object oriented Designand Construction	M	64	3	84	
Outline of Chinese Modern and Contemporary History	M	32	2	83		Operating Systems	M	96	4.5	76	
Physical Education(2)	M	17	0.5	92		Practice and Presentation(1)	M	32	1	70	
Advanced Topics in Complex Networks	M	16	1	90		Social Computing	E	32	2	80	
Liberal Arts (II)	M	32	0.5	C		Fall 2021					
Fall 2020						Physical Education(5)	M	17	0.5	82	
Probability Theory and Statistics A	M	48	3	82		Principles of Law	M	32	2	90	
Total Credits required for graduation	146.50					Total Credits Received	155		GPA		3.43

Grading Point Average (GPA) = sum of course credit points / sum of course credits. (Course credit point = course grade point×course credit)

Notes of GPA and scores:

1) Course grade point for 100-grade system=4-3×(100-X)²/1600(60<=X<=100). X means the grade out of the 100-grade system,grades below 60 = grade point 0;

2) Five-scale system: A=4(90-100, Excellent); B=3.5(80-89, Good); C=2.8 (70-79, Fair); P=1.7 (60-69, Pass); F=0 (0-59, Fail);

3) Two-scale system: P(60-100); N(0-59); not included in GPA, but in total credits.

Notes of type and marks:

1) Type:M=Mandatory, E=Elective; 2) Marks:M=Make-up, R=Retake Course.

Date of Issue: 2023-06-07

BEIHANG UNIVERSITY Transcript of Academic Record

Student ID: 19373345 Name: Liu Zhaoxun School: School of Computer Science and Engineering

Major: Computer Science and Technology Class: 190614

Courses Title	Type	Hours	Credits	Grade	Marks	Courses Title	Type	Hours	Credits	Grade	Marks
Liberal Arts (V)	M	32	0.5	A		Liberal Arts (VII)	M	32	0.5	A	
Compiler Technology	M	96	4.5	69		Serial Lectures On How To Seek Employment	M	8	0.5	85	
Mathematical Modeling	M	32	2	71		Spring 2023					
Principles of Database Systems	M	80	4	77		Liberal Arts (VIII)	M	32	0.5	A	
Algorithm Design and Analysis	M	32	2	71		Encounter Symphony 2	E	32	1.5	95	
Research Class	E	32	2	P		Graduation project	M	640	8	A	
Parallel programming	E	32	2	92		------The following is blank------					
Introduction to Mathematical Modeling	E	24	1.5	88							
Introduction to Data Mining	E	48	2.5	96							
Spring 2022											
Physical Education(6)	M	17	0.5	100							
Economics and Management	M	32	2	91							
Introduction to Computers	E	32	2	96							
Liberal Arts (VI)	M	32	0.5	A							
Software Engineering	M	32	2	98							
Computer Network	M	32	2	84							
Computer Network Experiments	M	32	1	87							
Methodology of Computer Science	M	32	2	95							
Practice and Presentation (2)	M	32	1	100							
Signal Processing and Information Inference	E	32	2	99							
Seminars on the Developmentof Computer Science	M	16	1	88							
The Internet of things and big data systems design	E	32	2	99							
international environmental law	E	32	2	92							
Fall 2022											
Military Training	M	112	2	P							
Physical Education(7)	M	32	1	85							
Total Credits required for graduation			146.50			Total Credits Received		155	GPA		3.43

Grading Point Average (GPA) = sum of course credit points / sum of course credits. (Course credit point = course grade point×course credit)

Notes of GPA and scores:

1) Course grade point for 100-grade system=4-3×(100-X)²/1600(60<=X<=100). X means the grade out of the 100-grade system,grades below 60 = grade point 0;

2) Five-scale system: A=4(90-100, Excellent); B=3.5(80-89, Good); C=2.8 (70-79, Fair); P=1.7 (60-69, Pass); F=0 (0-59, Fail);

3) Two-scale system: P(60-100); N(0-59); not included in GPA, but in total credits.

Notes of type and marks:

1) Type:M=Mandatory, E=Elective; 2) Marks:M=Make-up, R=Retake Course.

Date of Issue: 2023-06-07

北京航空航天大学本科生学业成绩表

学号：19373345　　姓名：刘兆薰　　学院：计算机学院　　专业：计算机科学与技术　　班级：190614

课程名称	性质	学时	学分	成绩	备注	课程名称	性质	学时	学分	成绩	备注	课程名称	性质	学时	学分	成绩	备注
2019 秋季						毛泽东思想和中国特色社会主义理论体系概论	必修	48	3	78		数据库系统原理	必修	80	4	77	
工科数学分析(1)	必修	96	6	78								算法设计与分析	必修	32	2	71	
工科高等代数	必修	96	6	83		体育（3）	必修	17	0.5	85		科研课堂	任修	32	2	通过	
程序设计基础训练	必修	48	2	84		法律、科技与社会	必修	32	2	86		并行计算程序设计	选修	32	2	92	
大英 A1	必修	64	4	92		博雅课程（文化素质拓展）(3)	必修	32	0.5	优秀		数学建模入门	选修	24	1.5	88	
思想道德修养与法律基础	必修	32	2	82		离散数学（2）	必修	48	3	60		数据挖掘导论	选修	48	2.5	96	
体育（1）	必修	16	0.5	93		计算机组成	必修	112	5.5	72		2022 春季					
计算机导论与伦理学	限修	24	1.5	87		职业规划与选择讲座	必修	8	0.5	80		体育（6）	必修	17	0.5	100	
计算简史——逻辑推动与技术演进	选修	16	1	87		智能计算概论	选修	32	2	90		经济管理	必修	32	2	91	
本科生学业规划	选修	16	1	90		2021 春季						计算机导论（英文）	选修	32	2	96	
博雅课程（文化素质拓展）(1)	必修	32	0.5	良好		基础物理实验（2）	必修	32	1	85		博雅课程（文化素质拓展）(6)	必修	32	0.5	优秀	
2020 春季						马克思主义基本原理概论	必修	48	3	85		软件工程	必修	32	2	98	
工科数学分析(2)	必修	96	6	98		军事理论	必修	32	2	82		计算机网络	必修	32	2	84	
基础物理学（信息类）	必修	64	4	92		体育（4）	必修	16	0.5	82		计算机网络实验	必修	32	1	87	
电子设计基础训练	必修	56	2	91		航空航天概论 A	必修	32	2	83		计算机科学方法论	必修	32	2	95	
离散数学(信息类)	必修	32	2	92		人工智能概论	必修	32	2	91		实践与展示(2)	必修	32	1	100	
数据结构与程序设计(信息类)	必修	64	3	92		博雅课程（文化素质拓展）(4)	必修	32	0.5	优秀		信号处理与信息推断	选修	32	2	99	
工程图学基础（信息类）	必修	32	1.5	97		面向对象设计与构造	必修	64	3	84		学科技术前沿讲座	必修	16	1	88	
大英 A2	必修	64	4	90		操作系统	必修	96	4.5	76		物联网与大数据系统设计	选修	32	2	99	
中国近现代史纲要	必修	32	2	83		实践与展示（1）	必修	32	1	70		国际环境法	限修	32	2	92	
体育（2）	必修	17	0.5	92		社会计算	选修	32	2	80		2022 秋季					
复杂网络前沿探讨	必修	16	1	90		2021 秋季						军事技能	必修	112	2	通过	
博雅课程（文化素质拓展）(2)	必修	32	0.5	中等		体育（5）	必修	17	0.5	82		体育（7）	必修	32	1	85	
2020 秋季						法学原理	必修	32	2	90		博雅课程（文化素质拓展）(7)	必修	32	0.5	优秀	
概率统计 A	必修	48	3	82		博雅课程（文化素质拓展）(5)	必修	32	0.5	优秀		求职辅导系列讲座	必修	8	0.5	85	
工科大学物理（2）	必修	64	4	71		编译技术	必修	96	4.5	69		2023 春季					
基础物理实验(1)	必修	32	1	82		数学建模	必修	32	2	71		博雅课程（文化素质拓展）(8)	必修	32	0.5	优秀	
毕业应取得总学分	146.50					已获得总学分	155					GPA	3.43				

平均学分绩点（GPA）=所学课程分绩点之和/所学课程学分之和。（课程学分绩点=课程绩点*学分数）

说明：

1）百分制课程绩点=4-3*(100-X)2/1600(60<=X<=100)，其中X为课程百分制分数，100分制绩点为4，60分绩点为1，60分以下绩点为0；

2）五级制课程绩点对应：4（优秀），3.5（良好），2.8（中等），1.7（及格），0（不及格）；

3）两级制不计入 GPA,但计入总学分。

打印日期：2023-06-07

北京航空航天大学本科生学业成绩表

学号：19373345　　姓名：刘兆薰　　学院：计算机学院　　专业：计算机科学与技术　　班级：190614

课程名称	性质	学时	学分	成绩	备注	课程名称	性质	学时	学分	成绩	备注	课程名称	性质	学时	学分	成绩	备注
邂逅交响乐（2）	任修	32	1.5	95													
毕业设计	必修	640	8	优秀													
——以下为空白——																	

毕业应取得总学分	146.50	已获得总学分	155	GPA	3.43

平均学分绩点（GPA）=所学课程分绩点之和/所学课程学分之和。（课程学分绩点=课程绩点*学分数）

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2）五级制课程绩点对应：4（优秀），3.5（良好），2.8（中等），1.7（及格），0（不及格）；

3）两级制不计入GPA,但计入总学分。

打印日期：2023-06-07