

## English-Taught Program Certificate

This is to certify that Chen Zian (Student ID: 2019301955) pursued the **English-taught program (ETP)** in Electronics and Information Engineering at the School of Electronics and Information, Northwestern Polytechnical University, from September 2019 to July 2023. Over the four-year study, the student completed all English-taught courses and was awarded a Bachelor's degree in Engineering.

The following is a detailed breakdown of all English-taught courses (all instruction, materials, assignments, and examinations were conducted in full English):

- **Course 1:** Calculus (1) (Credits: 4, Score: 100)
- **Course 2:** Calculus (2) (Credits: 4, Score: 100)
- **Course 3:** Calculus (3) (Credits: 4, Score: 100)
- **Course 4:** Computing Method (Credits: 2.5, Score: 100)
- **Course 5:** Complex Function and Integral Transformation (Credits: 2.5, Score: 100)
- **Course 6:** Modeling and Simulation of System Using MATLAB (Credits: 2, Score: 99)
- **Course 7:** Experiments for Fundamentals of Analog Electronics (Credits: 1, Score: 97)
- **Course 8:** Fundamentals of Analog Electronics (Credits: 4, Score: 97)
- **Course 9:** Microwave and Radio Circuits (Credits: 2, Score: 97)
- **Course 10:** Electronic Measurement (Credits: 2.5, Score: 96)
- **Course 11:** Linear Algebra (Credits: 3, Score: 95)
- **Course 12:** College Physics IV (2) (Credits: 3.5, Score: 95)
- **Course 13:** Course Design of High-Frequency Electronic Circuit (Credits: 0.5, Score: 95)
- **Course 14:** Experiment of Electromagnetic Field and Electromagnetic Wave (Credits: 1, Score: 95)
- **Course 15:** Digital Signal Processing Lab (Credits: 1, Score: 93)
- **Course 16:** Signal and System (Credits: 4, Score: 93)
- **Course 17:** Digital Image Processing (Credits: 3, Score: 92)
- **Course 18:** Principles of Automatic Control (Credits: 2, Score: 91)
- **Course 19:** Equations and Special Functions in Mathematical Physics (Credits: 2, Score: 91)
- **Course 20:** High-Frequency Electronic Circuits (Credits: 3.5, Score: 91)
- **Course 21:** College Physics Experiment IV (1) (Credits: 1.5, Score: 91)
- **Course 22:** Wireless Sensor Networks (Credits: 2, Score: 91)
- **Course 23:** College Physics IV (1) (Credits: 4, Score: 91)

- **Course 24:** Graduation Design or Thesis (Credits: 10, Score: 90.3)
- **Course 25:** Experiments for Signal and System (Credits: 1, Score: 90)
- **Course 26:** Microwave Techniques and Antennas (Credits: 4, Score: 90)
- **Course 27:** High Frequency Electronic Circuit Experiment (Credits: 1, Score: 89)
- **Course 28:** Digital Signal Processing (Credits: 3, Score: 89)
- **Course 29:** Probability Theory and Mathematical Statistics (Credits: 3.5, Score: 88)
- **Course 30:** Experiments for Fundamentals of Electric Circuits I (Credits: 1, Score: 88)
- **Course 31:** Experiments for Fundamentals of Digital Electronics (Credits: 1, Score: 88)
- **Course 32:** Fundamentals of Digital Electronics (Credits: 4, Score: 86)
- **Course 33:** Fundamentals of Electric Circuits I (Credits: 4, Score: 86)
- **Course 34:** Mechanical Mapping (Credits: 3, Score: 81)
- **Course 35:** College Physics Experiment I (2) (Credits: 1.5, Score: 81)
- **Course 36:** Comprehensive Experiments on Electrical & Information Engineering (Credits: 2, Score: 81)
- **Course 37:** Engineering Electromagnetic Fields and Waves (Credits: 3.5, Score: 80)
- **Course 38:** Analysis and Detection of Random Signal (Credits: 2.5, Score: 76)
- **Course 39:** Programming Basic (Credits: 3, Score: 72)
- **Course 40:** Principles of Communication (Credits: 4, Score: 71)
- **Course 41:** Programming Experiment (Credits: 1, Score: 69)

In addition to the regular courses, other academic activities such as seminars, group projects, and thesis writing were also carried out in English. The student was required to express his ideas, conduct research, and complete assignments in English, which effectively improved his English-language proficiency and academic abilities.

We hereby confirm that Chen Zian has completed the above undergraduate courses in an English-language environment and is proficient in using English for academic learning and communication.

**Issued by:** School of Electronics and Information,  
Northwestern Polytechnical University

**Date:** 8th July 2025

