**2018 Academic Four-Year Curriculum of Electrical Engineering Department, CHU**

**\*The minimum requirement for graduation with a B. S. degree: 128 credits**

\*128 credits =6(Basic general education courses)+22(Elective general education courses)+62 (Core courses) +38 (Elective courses)

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| **Basic general education courses:10 credits** | | |
| Freshman | Physical Education(I) (0)  All-out Defense Education Military Training-International  Situations (0)  Freshman English(I) (2) | Physical Education(Ⅱ)(0)  All-out Defense Education Military Training-Defense  Technology (0)  Freshman English(II)(2) |
| Sophomore | Physical Education(Ⅲ)(0)  Sophomore English(I) (1) | Physical Education(Ⅳ)(0)  Sophomore English(Ⅱ) (1) |
| Junior | Implementation Measures of Students' Graduation  Requirements of English Proficiency(0) |  |
| Senior | (none) | (none) |

**Elective general education courses:22 credits**

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| **Core courses:62 credits** | | |
| Freshman | Physics(I)(3)  Calculus(I)(3)  Logic Design(I)(3)  Programming Design(I)(3) | Physics(Ⅱ)(3)  Calculus(Ⅱ)(3)  Logic Design(Ⅱ)(3)  Programming Design(Ⅱ)(3)  Linear Algebra(3) |
| Sophomore | Circuit Theory(I)(3)  Electronics (I)(3)  Electronic Lab(I)(1)  Engineering Mathematics(I)(3) | Circuit Theory(II) (3)  Electronics(II) (3)  Electronic Lab(II)(1)  Engineering Mathematics(II)(3)  Signals and Systems(3) |
| Junior | Electromagnetics(I)(3)  Microprocessor(I)(3)  Electronic Lab(Ⅲ) (1) | Electrical Capstone Design Course (1)  Special Topic Practice (I)(2) |
| Senior | Special Topic Practice(Ⅱ)(2) | (none) |

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| **Elective courses** (students are required to take **at least** 38**-credits** elective courses from  Department of E.E ) ★The courses must be selected | | |
| Freshman | Engineering English (2)  Basic Mathematics(2) | Project Design(I) (1) ★ |
| Sophomore | Innovative Project Design（2）★ | Project Design (II) (1) ★ |
| Junior | Communication Systems(3) ★  Probability and Statistics(3) ★  Electronics(Ⅲ)(3)  Servo Control (3) Electromagnetic Wave(3)  Advanced Engineering Mathematics(3) Introduction to Telecommunication Engineering(3)  Optoelectronics(3)  Engineering Application Software(3) Data structures(3) | Electromagnetics(II)(3) ★  Microprocessor(II)(3) ★  Modern Physics(3) ★  Electrical Machinery(3) ★  Digital Control (3)  Numerical Analysis (3)  Complex Variables (3)  Communication Electronics (3)  Radio Engineering (3)  Principle of Digital Communications(3) Digital Integrated Circuits(3)  Mobile Application Development(3)  Windows Programming(3) Optoelectronics Devices(3) |
| Senior | Optoelectronic Display Technology(3)  Digital Signal Processing(3)  Digital Singal Processing Simulation(3) Introduction to Optical Fiber Communication (3)  Semiconductor Devices (3)  Digital Integrated Circuit Design(3)  Internship Course(9) | Application of Digital Integrated Circuits (3)  System and Application of Optical Fiber Communication(3) Application of Laser(3)  Semiconductor Technology(3) Automatic Systems(3)  Computer Architecture(3)  Internship Course(9) |

\*For 38 Elective credits of graduation requirement, every student must pass 9 cross-department credits. The Elective general education, Physical Education and All-out Defense Education Military Training-International Situations courses are excluded.