**National Taiwan Normal University Department of Industrial Education  
Undergraduate Program Regulations**

1997.9.17 Passed during the 2nd Department Affairs Meeting, Academic Year 1997–98  
1999.6.25 Amendment passed during the 9th Department Affairs Meeting, Academic Year 1998–99  
2003.4.30 Amendment passed during the 5th Department Affairs Meeting, Academic Year 2002–03  
2007.4.27 Amendment passed during the 4th Department Affairs Meeting, Academic Year 2006–07  
2016.9.21 Amendment passed during the 1st Department Affairs Meeting, Academic Year 2016–17  
2017.9.20 Amendment passed during the 1st Department Affairs Meeting, Academic Year 2017–18  
2020.5.6 Amendment passed during the 5th Department Affairs Meeting, Academic Year 2019–20   
2021.5.19 Amendment passed during the 6th Department Affairs Meeting, Academic Year 2020–21

Article 1 Title of degree conferred by the Department (in Chinese and English):

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| --- | --- | --- | --- | --- |
|  | Full name of the Department (Chinese/English) | Title of degree | | Applicable to |
| Full title (Chinese/English) | Abbreviation (English) |
| Bachelor’s degree | 工業教育學系  Department of Industrial Education | 工學學士  Bachelor of  Engineering | B.Eng. | Students admitted in or after Academic Year 2021–22 |

Article 2 Undergraduate program course requirements:

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| --- | --- |
| No. | Coursework requirements |
| (1) | Minimum credits required for graduation: 128 (140 for graduates of five-year high schools) |
| (2) | University-level common compulsory course credits: **32** (Appendix A) |
| (3) | Departmental professional courses (75 credits)   1. Departmental compulsory course credits: **47** (Appendix B) 2. Departmental elective course credits: **28** (Appendix C) |
| (4) | Free elective course credits: **21** (Appendix D) |
| (5) | Service Learning |
| (6) | Foreign language proficiency requirement (Appendix E) |
| Notes | 1. Undergraduate students in the Department must complete at least 128 course credits (excluding Teacher Education Program credits) in order to graduate with a Bachelor of Engineering degree. 2. Students who have completed 128 credits but failed to complete and pass all of the compulsory course credits may not graduate with a Bachelor of Engineering degree. |

Article 3 Coursework requirements for the Teacher Education Program shall be subject to the applicable regulations of the University.

Article 4 Matters unaddressed herein shall be subject to the applicable academic regulations of the University.

Article 5 These regulations shall be submitted to the Academic Affairs Meeting for review following passage by the Department and College Affairs Meetings. The same shall apply to any amendments hereto.

# University-level common compulsory courses:

**14** basic competency course credits and 18 general education course credits (**32** credits in total)

|  |  |  |  |
| --- | --- | --- | --- |
| Course type | | Discipline/subject | Credits |
| Basic competency courses | | Chinese reading and thinking Chinese writing and expression | Min. 4 credits |
| English (I)/(II)/(III) | Min. 6 credits |
| Physical Education | **Min. 4 credits** |
| General education courses (at least 18 credits) | Liberal arts | Humanities and the arts | Min. 2 credits |
| Social sciences | Min. 2 credits |
| Natural sciences | Min. 2 credits |
| Logic and computer science | Min. 2 credits |
| Interdisciplinary courses | College-level common courses | Min. 4 credits |
| Interdisciplinary exploration courses |
| Introduction to university studies |
| Self-directed learning | Inquiry study | **Max.** 4 credits |
| MOOCs  (Limited to NTNU MOOCs, Coursera, Udacity, and edX) |

Notes:

1. Students must complete at least 18 general education course credits, including at least eight liberal arts credits and four interdisciplinary credits. The remaining six credits may be either liberal arts credits, interdisciplinary credits, or self-directed learning credits.
2. Please refer to the University’s General Education Course Framework and Course List for a list of available college-level exploration courses and interdisciplinary exploration courses. Courses indicated with a “※” symbol will only be recognized as general education course credits if they are not offered by the department with which the undergraduate student is affiliated.

# Departmental compulsory courses:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Course type | Course title | Course code | Credits | Course title | Course code | Credits |
| Departmental compulsory courses | Introduction to Computer | IEU0007 | 2 | Automatic Control | IEU1863 | 3 |
| Introduction to Technological and Vocational Education | IEU0111 | 2 | Electronics | IEU1873 | 3 |
| Engineering Graphics | IEU0114 | 2 | Engineering Mathematics | IEU3009 | 3 |
| General Technology of Machine Workshop | IEU0115 | 2 | Thermo-Dynamics (I) | IEU3144 | 3 |
| General Technology of Electrical Engineering | IEU0116 | 2 | Refrigeration and Air Conditioning Principles | IEU0021 | 3 |
| Sensors and Transducers | IEU0117 | 3 | Circuit Theory | IEU3468 | 3 |
| Computer Programming | IEU0119 | 3 | Calculus B (I) | MAU0180 | 3 |
| Service Shop Operation and Management | IEU0123 | 3 | Special Topics on Automotive Technology and Energy Technology (I) | IEU0081 | 2 |
| Internal Combustion Engine | IEU1160 | 3 | Special Topics on Automotive Technology and Energy Technology (II) | IEU0082 | 2 |
| Subtotal: 47 credits | | | | | |

1. **Departmental elective courses:**

1. Students shall complete 28 departmental elective course credits during their period of study at the University.

2. Please refer to the Department’s Undergraduate Curriculum Framework for more details.

# Free elective courses:

1. Credits obtained from other departments or institutions as well as departmental and university credits in excess of the compulsory credit requirements may be counted towards students’ free elective credits.

2. The credits and grades received for repeated courses shall count towards students’ GPA and graduation credits. However, the number of credits obtained by a student (excluding credits for repeated courses) may not be less than the minimum credits required for graduation.

# Foreign language proficiency requirements:

|  |  |  |
| --- | --- | --- |
| Foreign Language | Graduation requirements | Remedial measures |
| English | Undergraduate students in the department must meet one of the following foreign language proficiency criteria in order to apply for graduation:   1. Passing the GEPT Intermediate Level 2. Scoring 50 or higher on the TOEFL iBT 3. Scoring 510 or higher on TOEIC 4. Obtaining Tier 5 or better in PVQC Specialist and Tier 3 or better in PVQC Spelling 5. Obtaining Specialist Tier 1 or better on the PELC Listening Test 6. Scoring a Lexile Score of 650L or higher | As a remedial measure, students who are unable to meet the department’s foreign language proficiency criteria may still apply for graduation after taking the University’s online English grammar course with a difficulty level equivalent to 400L Lexile Score, passing the course’s examination, and producing the relevant proof. |
| Notes | 1. To be accepted for graduation eligibility purposes, proof of foreign language proficiency must be obtained in or after the academic year in which a student is admitted. 2. Students who have completed the required credits but who fail to meet the foreign language proficiency requirements must defer their graduation until they either obtain proof of foreign language proficiency or complete the remedial course. | |