**Department of Electrical Engineering, National Taiwan Ocean University:** **Compulsory subject list (**Applicable for students enrolled in the 2016th academic year**)**  
**Normal Graduation in 4 years; admission status: Full time students**

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| Subject category | Subject name | Number of credits |  | first year | | Second year | | Third year | | Fourth  year | | Fifth year | |
| 1st semester | 2nd semester | 1st semester | 2nd semester | 1st semester | 2nd semester | 1st semester | 2nd semester | 1st semester | 2nd semester |
| Co-education course | 12-Chinese language | 6 | unrestricted | 3 | 3 |  |  |  |  |  |  |  |  |
| English (Freshman English)  B9B01968  B9B01969 | 4 | unrestricted | 2 | 2 |  |  |  |  |  |  |  |  |
| 38-intermediate English | 2 | unrestricted |  |  | 2 |  |  |  |  |  |  |  |
| English graduation requirement B9D03TVS | 0 | none |  |  |  |  | 0 |  |  |  |  |  |
| Introduction to Marine Science B9M01Z64 | 2 | unrestricted |  | 2 |  |  |  |  |  |  |  |  |
| 11-Liberal Art courses | 14 | unrestricted |  |  | 2,2 | 2,2 | 2,2 | 2 |  |  |  |  |
| 19-Physical Education Courses | 0 | unrestricted | 0 | 0 | 0 | 0 |  |  |  |  |  |  |
| Swimming graduation requirement B92A12P5 | 0 | unrestricted |  |  |  |  | 0 |  |  |  |  |  |
| 22-Service Learning | 0 | unrestricted | 0 | 0 |  |  |  |  |  |  |  |  |
| Co-education course credits subtotal | | 28 |  | 5 | 7 | 6 | 4 | 4 | 2 | 0 | 0 | 0 | 0 |

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| Department of professional compulsory | General physics B5311L66、  B5321L66 | 6 | unrestricted | 3 | 3 |  |  |  |  |  |  |  |  |
| General physics experiments B5311L67、B5321L67 | 2 | unrestricted | 1 | 1 |  |  |  |  |  |  |  |  |
| Introduction to Computer Science  B5301992 | 3 | unrestricted | 3 |  |  |  |  |  |  |  |  |  |
| Programming B5301M33 | 3 | unrestricted | 3 |  |  |  |  |  |  |  |  |  |
| Programming & implementation B5301M30 | 1 | unrestricted | 1 |  |  |  |  |  |  |  |  |  |
| Calculus B5311M9H、B5321M9H | 8 | unrestricted | 4 | 4 |  |  |  |  |  |  |  |  |
| Switching circuit and logic design B5301498 | 3 | unrestricted |  | 3 |  |  |  |  |  |  |  |  |
| Electrical Circuit  B5311P48、B5322P48 | 6 | unrestricted |  | 3 | 3 |  |  |  |  |  |  |  |
| Engineering Mathematics (I)  B530108U | 3 | unrestricted |  | 3 |  |  |  |  |  |  |  |  |
| Engineering Mathematics (II)  B530208V | 3 | unrestricted |  |  | 3 |  |  |  |  |  |  |  |
| Linear algebra  B5302S60 | 3 | unrestricted |  |  | 3 |  |  |  |  |  |  |  |
| Electronics  B5312P17、B5322P17、B5333P17 | 9 | unrestricted |  |  | 3 | 3 | 3 |  |  |  |  |  |
| Electrical Engineering experiments B5312P23、B5322P23、B5333P23、B5343P23 | 6 | unrestricted |  |  | 1 | 2 | 2 | 1 |  |  |  |  |
| Electromagnetism  B5302P50 | 3 | unrestricted |  |  | 3 |  |  |  |  |  |  |  |
| Electromagnetic wave B5302P49 | 3 | unrestricted |  |  |  | 3 |  |  |  |  |  |  |
| Probability B5302T86 | 3 | unrestricted |  |  |  | 3 |  |  |  |  |  |  |
| Signal and system  B5302D81 | 3 | unrestricted |  |  |  | 3 |  |  |  |  |  |  |
| Departmental compulsory non-elective courses credits subtotal | | 68 | unrestricted | 15 | 17 | 16 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
|  | 33-Departmental compulsory elective courses | 12 | unrestricted |  |  |  | 3 | 3 | 3 | 3 |  |  |  |
| Departmental compulsory elective courses credits subtotal | | 12 |  | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 0 | 0 | 0 |
| Total credits | | 108 |  | 20 | 24 | 22 | 21 | 12 | 6 | 3 | 0 | 0 | 0 |
| Compulsory total credits | | 108 | | | | | | | | | | | |
| minimum noncompulsory elective credits | | 30 | | | | | | | | | | | |
| minimum graduation credits | | 138 | | | | | | | | | | | |
| Remarks for noncompulsory elective courses. | | 1. This department only recognized a maximum of 12 noncompulsory elective credits from other departments, and among them no more than 6 credits from other departments within the College of EE & CS.  2. "Japanese" (up to 4 credits) can be used as the departmental compulsory elective course.  3. Credits for the "Common Education Curriculum", "Military Training" and "Physical Education" are not accredited as departmental elective courses. | | | | | | | | | | | |
| minimum Graduation credits remarks | |  | | | | | | | | | | | |
| Other General Remarks | |  | | | | | | | | | | | |