

東海大學102學年度日間學士班工學院環境科學與工程學系必修科目表

Mandatory Courses of Undergraduate Program for DESE at THU

|  | 科 目                                   | Course                                     | 學分<br>Credit | 第一學年<br>1st Year |    | 第二學年<br>2nd Year |    | 第三學年<br>3rd Year |   | 第四學年<br>4th Year |   | 備 註                    |
|--|---------------------------------------|--|--------------|------------------|----|------------------|----|------------------|---|------------------|---|------------------------|
|  |                                       |  |              | 上                | 下  | 上                | 下  | 上                | 下 | 上                | 下 |                        |
| 基礎課程<br>Required<br>General                | 11001-中文                              | Chinese                                    | 4            | 2                | 2  |                  |    |                  |   |                  |   |                        |
|  | 16036-大一英文                            | Freshman English                           | 4            | 2                | 2  |                  |    |                  |   |                  |   |                        |
|  | 13001-歷史                              | History                                    | 2            |                  | 2  |                  |    |                  |   |                  |   |                        |
|  | 16037-大二英文                            | Sophomore English                          | 2            |                  |    | 1                | 1  |                  |   |                  |   |                        |
|  | 53001-公民文化                            | Civic Culture                              | 2            |                  |    |                  | 2  |                  |   |                  |   |                        |
|  | 01001-軍訓                              | Military Training                          |              |                  |    |                  |    |                  |   |                  |   |                        |
|  | 02001-大一體育                            | Physical Education (I)                     |              |                  |    |                  |    |                  |   |                  |   |                        |
|  | 02002-大二體育                            | Physical Education (2)                     |              |                  |    |                  |    |                  |   |                  |   |                        |
|  | 00002-勞作教育                            | Student's Labor                            |              |                  |    |                  |    |                  |   |                  |   |                        |
| 通識必修科目<br>Required<br>General<br>Education | 99001-人文學科                            | Humanities                                 | 14           |                  |    |                  |    |                  |   |                  |   | 通識四領域必選其中三領域。至少選修14學分。 |
|  | 99007-社會學科                            | Social Sciences                            |              |                  |    |                  |    |                  |   |                  |   |                        |
|  | 99008-自然學科                            | Natural Sciences                           |              |                  |    |                  |    |                  |   |                  |   |                        |
|  | 99009-文明與經典領域學科                       | Civilization and Classic                   |              |                  |    |                  |    |                  |   |                  |   |                        |
| 學系必修科目<br>Mandatory                        | 24001-微積分                             | Calculus B                                 | 6            | 3                | 3  |                  |    |                  |   |                  |   |                        |
|  | 21000-普通物理                            | General Physics                            | 6            | 3                | 3  |                  |    |                  |   |                  |   |                        |
|  | 22042-普通化學                            | General Chemistry                          | 4            | 2                | 2  |                  |    |                  |   |                  |   |                        |
|  | 22001-普通化學實驗                          | General Chemistry Lab.                     | 2            | 1                | 1  |                  |    |                  |   |                  |   |                        |
|  | 27157-環境工程                            | Environmental Engineering                  | 6            | 3                | 3  |                  |    |                  |   |                  |   |                        |
|  | 23310-生物學                             | Biology                                    | 3            |                  |    | 3                |    |                  |   |                  |   |                        |
|  | 23555-生物學實驗                           | Biology Lab.                               | 1            |                  |    | 1                |    |                  |   |                  |   |                        |
|  | 27012-電腦環境應用                          | Computer Application in Environmental St   | 3            |                  | 3  |                  |    |                  |   |                  |   |                        |
|  | 27164-環境污染物分析〈一〉                      | Environmental Pollutant Analysis I         | 2            |                  |    | 2                |    |                  |   |                  |   |                        |
|  | 27165-環境污染物分析〈二〉                      | Environmental Pollutant Analysis II        | 2            |                  |    |                  | 2  |                  |   |                  |   |                        |
|  | 61018-微生物學                            | Microbiology                               | 3            |                  |    |                  | 3  |                  |   |                  |   |                        |
|  | 23132-微生物學實驗                          | Microbiology Lab.                          | 1            |                  |    |                  | 1  |                  |   |                  |   |                        |
|  | 27065-環境分析化學(一)                       | Environmental Analytical Chemistry( I )    | 3            |                  |    |                  |    | 3                |   |                  |   |                        |
|  | 27066-環境分析化學實驗(一)                     | Environmental Analytical Chemistry Lab (I) | 1            |                  |    |                  |    | 1                |   |                  |   |                        |
|  | 27089-環境統計學                           | Environmental Statistics                   | 3            |                  |    |                  |    |                  | 3 |                  |   |                        |
|  | 27197-環境生態學                           | Environmental Ecology                      | 3            |                  |    |                  |    | 3                |   |                  |   |                        |
|  | 27013-環境化學                            | Environmental Chemistry                    | 4            |                  |    |                  |    | 2                | 2 |                  |   |                        |
| 27026-環境規劃與管理                              | Environmental Planning and Management | 3  |              |                  |    |                  |    |                  |   | 3                |   |                        |
|  | 27040-流體力學                            | Fluid Mechanics                            |              |                  |    |                  | 3  |                  |   |                  |   |                        |
|  |                                       |  |              | 16               | 21 | 7                | 12 | 9                | 5 |                  | 3 |                        |
|  |                                       | 必修學分數                                      | 87           |                  |    |                  |    |                  |   |                  |   |                        |
|  |                                       | 選修學分數                                      | 41           |                  |    |                  |    |                  |   |                  |   |                        |
|  |                                       | 畢業學分數                                      | 128          |                  |    |                  |    |                  |   |                  |   |                        |