CSE Bachelor Degree Curriculum Plan (Full English-taught Program)

| Course Name | Credit(s) | $\begin{gathered} 1^{\text {st }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 2^{\text {nd }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 3^{\text {rd }} \\ \text { semester } \end{gathered}$ | $4^{\text {th }}$ <br> semester | $\begin{gathered} 5^{\text {th }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 6^{\text {th }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 7^{\text {th }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 8^{\text {th }} \\ \text { semester } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINESE | 3 | v |  |  |  |  |  |  |  |
| ENGLISH | 3 | v |  |  |  |  |  |  |  |
| CROSS-COLLEGE ELECTIVE COURSES | 8 | V |  |  |  |  |  |  |  |
| GE ELECTIVE COURSES <br> (Liberal Arts) | 13 |  |  | V | V | V | V | V |  |
| VOLUNTARY SERVICE | 1 |  |  | v |  |  |  |  |  |
| PHYSICAL EDUCATION | 4 | v | v | v | v |  |  |  |  |
| GE INTERNATIVE COURSES | 0 | v | v | v | v | v | v |  |  |
| CSE ELECTIVE COURSES <br> (At least 12 credits taken from full English-taught courses) | 30 | V | V | V | V | V | v | V | V |
| PROFESSIONAL CORE COURSES <br> (See Course Plan Below) | 53 | V | V | V | V | V | V | V |  |
| ELECTIVE COURSES | 20 | V | V | V | V | V | V | V | V |
| REMARKS | The total graduation credits will be 135 credits. Therefore, students must fulfill mandatory courses listed above plus electives courses from other academic units to apply for their graduation. |  |  |  |  |  |  |  |  |

【Professional Core Courses Plan】

| Course Name | Credit(s) | $\begin{gathered} 1^{\text {st }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 2^{\text {nd }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 3^{\text {rd }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 4^{\text {th }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 5^{\text {th }} \\ \text { semester } \end{gathered}$ | $\begin{gathered} 6^{\text {th }} \\ \text { semester } \end{gathered}$ | $7^{\text {th }}$ <br> semester | $\begin{gathered} 8^{\text {th }} \\ \text { semester } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calculus | 3 | V |  |  |  |  |  |  |  |
| Discrete Mathematics | 3 | v |  |  |  |  |  |  |  |
| C Computer Programming (I) | 3 | V |  |  |  |  |  |  |  |
| C Computer Programming (II) | 3 |  | v |  |  |  |  |  |  |
| Digital Electronics | 3 |  | v |  |  |  |  |  |  |
| Data Structures | 3 |  |  | v |  |  |  |  |  |
| Linear Algebra | 3 |  |  | v |  |  |  |  |  |
| Digital System | 3 |  |  | v |  |  |  |  |  |
| Operating Systems | 3 |  |  |  | v |  |  |  |  |
| Probability | 3 |  |  |  | V |  |  |  |  |
| Computer Organization | 3 |  |  |  | v |  |  |  |  |
| Algorithms | 3 |  |  |  |  | v |  |  |  |
| Assembly Language and Microcomputer | 3 |  |  |  |  | V |  |  |  |
| Object-Oriented Programming | 3 |  |  |  |  | v |  |  |  |
| Unix System Programming | 3 |  |  |  |  |  | v |  |  |
| Design and Implementation of Compiler | 3 |  |  |  |  |  | V |  |  |
| Computer Network | 3 |  |  |  |  |  | V |  |  |
| Special Topics in Practice (I) | 1 |  |  |  |  |  | v |  |  |
| Special Topics in Practice (II) | 1 |  |  |  |  |  |  | v |  |

## Note:

1. Students shall 28 credits from General Education Center (PE Education is excluded). For details, please read Regulations for General Education Course Selection and Course Structure of General Education.
2. Students shall take 53 credits from professional core courses and at least 30 credits from CSE Elective courses ( 12 out of 30 credits must be full-English taught elective courses);
3. Students shall at least take and pass one CSE elective courses from each learning field.
4. Students shall pass Collegiate Programming Exam(CPE) (At least solve two questions in one exam);
5. For students whose graduation year level is equivalent to the graduates from overseas or Hong Kong and Macau schools at the same level as the second year of senior secondary schools in the domestic area, the required credits for graduation, as stipulated by this department, should be increased by 12 credits.
6. Students enrolled after academic year 2020 shall meet at least one of the following requirements:
a. Overseas Learning: Students shall participate in an exchange program or study abroad for a semester. Student may also choose to complete two credits of courses or study plan with at least 36 hours at overseas institutions approved by the Department.
b. Inter-disciplinary Learning: Students may complete a minor program or a double major program at NSYSU or other universities, or an education program, or a micro-program offered by the NSYSU (inter-college collaboration), or an integrated program (including personalized program), or a professional program offered by another department or institute.
