# Four-Year Study Plan of Computer Science and Technology Programme (2025 cohort)

| Course Code | Course Title | Year One Sem 1 | Year One Winter | Year One Sem 2 | Year Two Sem 1 | Year Two Sem 2 | Summer | Year Three Sem 1 | Year Three Sem 2 | Year Four Sem 1 | Year Four Sem 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **I. Major Required Courses (54 Units)** | | | | | | | | | | | |
| COMP1023 | Foundations of C Programming | 3 | | | | | | | | | |
| MATH1003 | Linear Algebra | 3 | | | | | | | | | |
| MATH1123 | Calculus for Science and Engineering | 3 | | | | | | | | | |
| COMP1033 | Systems and Web Development Workshop | | | 3 | | | | | | | |
| COMP2013 | Object-Oriented Programming | | | 3 | | | | | | | |
| MATH2003 | Discrete Structures | | | 3 | | | | | | | |
| COMP1003 | Computer Organisation | | | | 3 | | | | | | |
| COMP2003 | Data Structures and Algorithms | | | | 3 | | | | | | |
| COMP3013 | Database Management Systems | | | | 3 | | | | | | |
| COMP2073 | Data Programming Workshop | | | | | 3 | | | | | |
| COMP3003 | Data Communications and Networking | | | | | 3 | | | | | |
| COMP3023 | Design and Analysis of Algorithms | | | | | 3 | | | | | |
| COMP3033 | Operating Systems | | | | | 3 | | | | | |
| COMP3173 | Compiler Construction | | | | | | | 3 | | | |
| DS4023 | Machine Learning | | | | | | | 3 | | | |
| COMP3063 | Software Engineering | | | | | | | | 3 | | |
| COMP3253 | Advanced Software Development Workshop | | | | | | | | 3 | | |
| COMP4004 | Final Year Project I (COMP) | | | | | | | | | 3 | |
| **II. Major Elective Courses (21 Units)** | | | | | | | | | | | |
| ME01 ME02 ME03 ME04 ME05 ME06 ME07 | | | | | | | | 6 | 6 | 6 | 3[3] |
| **III. University Core Courses (37 Units)** | | | | | | | | | | | |
| UCLC1003 | University Chinese | | | 3 | | | | | | | |
| UCLC1013 | English for Academic Purposes I | 3 | | | | | | | | | |
| UCLC1023 | English for Academic Purposes II | | | 3 | | | | | | | |
| UCAI1003 | Introduction to AI Literacy | 3 | | | | | | | | | |
| CHI1103 | Introduction to Modern Social Theories | | | | 3 | | | | | | |
| CHI1203 | Morality and Foundations of Law | | | 3 | | | | | | | |
| CHI1063 | Chinese Culture and Modern China | | | | | 3 | | | | | |
| CHI1073 | Contemporary Chinese Society and Thought I | | | | | | | 3 | | | |
| CHI1253 | Contemporary Chinese Society and Thought II | | | | | 3 | | | | | |
| CHI1193 | Contemporary World and China[1] | | | | | | 2 | | | | |
| MT1003 | Military Training | | 2 | | | | | | | | |
| WPEX1013 | Emotional Intelligence | | | 1 | | | | | | | |
| WPEX2013 | Experiential Arts[2] | | | | | 1 | | | | | |
| WPEX2023/ WPEX2033 | Voluntary Service[2], or Environmental Awareness[2] | | | | 1 | | | | | | |
| UCHL1XX3 | Healthy Lifestyle[2] | 1 | | 1 | | 1 | | | | | |
| **IV. General Education Courses (18 Units)** | | | | | | | | | | | |
| Level 1 Foundational Courses | History and Civilization[2] | | | | 3 | | | | | | |
| Level 1 Foundational Courses | Quantitative Reasoning[2] | 3 | | | | | | | | | |
| Level 1 Foundational Courses | Values and the Meaning of Life[4] | | | 3 | | | | | | | |
| Level 2 Interdisciplinary Thematic Courses | Culture, Creativity and Innovation[2], or Science, Technology and Society[2], or Sustainable Communities[2] | | | | | | | 3[5] | 3[5] | | |
| Level 3 GE Capstone Courses | Service-Learning Course[2], or Service Leadership Education Course[2], or Experiential Learning Course[2], or Interdisciplinary Independent Study[2] | | | | | | | | | | 3 |
| **V. Free Elective Courses (18 Units)** | | | | | | | | | | | |
| FE01 FE02 FE03 FE04 FE05 FE06 | | | | | 3 | | | 3 | 3 | 6 | 3 |
| **Total Units: 148** | | **19** | **2** | **23** | **19** | **20** | **2** | **21** | **18** | **15** | **9** |

[1] This 2-unit course requires student to attend at least 10 lectures within his/her first two years of study.

[2] This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

[3] Students who continue with the final year project in the second semester of Year 4 should register COMP4005 Final Year Project II (COMP) as a major elective during the Online Course Selection (or Course Add/Drop) period.

[4] Students are required to take GFVM1033 Ethics in An Era of Artificial Intelligence and Robotics or GFVM1043 Ethics in Daily Life and Life Sciences under this category.

[5] Students are not allowed to take GTSC2093 IT for Success in Everyday Life and Work under this category.

## ME Course List of CST (2025 cohort)

*Rev 20250512*

| Course Code | Course Title | Units |
|---|---|---|
| AI3043 | Bayesian Networks | 3 |
| AI3073 | Introduction to Bioinformatics | 3 |
| AI3133 | Natural Language Processing | 3 |
| AI3153 | Human-Computer Interaction | 3 |
| AI4023 | Deep Reinforcement Learning | 3 |
| BIOL2003 | General Biology | 3 |
| COMP3073 | Introduction to Robotics | 3 |
| COMP3083 | Numerical Computation | 3 |
| COMP3123 | Software Testing | 3 |
| COMP3183 | Financial Computing | 3 |
| COMP3193 | Cloud Computing | 3 |
| COMP3213 | Internet of Things | 3 |
| COMP3223 | Mobile Computing | 3 |
| COMP4003 | Theory of Computation | 3 |
| COMP4005 | Final Year Project II (COMP) | 3 |
| COMP4023 | Computer and Network Security | 3 |
| COMP4033 | Computer Graphics | 3 |
| COMP4043 | Data Mining and Knowledge Discovery | 3 |
| COMP4073 | Distributed Computing Systems | 3 |
| COMP4083 | E-technology Architectures, Tools and Applications | 3 |
| COMP4093 | Internet and the World Wide Web | 3 |
| COMP4133 | System Analysis and Design | 3 |
| COMP4143 | Introduction to Web Intelligence | 3 |
| COMP4153 | Quantum Finance and Intelligent Financial Trading Systems | 3 |
| COMP4163 | Neural Networks and Deep Learning | 3 |
| COMP4173 | Digital Image Processing | 3 |
| COMP4213 | Wireless Communication and Mobile Computing | 3 |
| COMP4223 | Deep Learning for Computer Vision | 3 |
| COMP4233 | Functional Programming | 3 |
| COMP4243 | Mathematical and Computing Methods | 3 |
| COMP4253 | AI-Generated Content | 3 |
| COMP4263 | 3D Computer Vision | 3 |
| DS3063 | Computational Statistics and Programming | 3 |
| DS4033 | Text Mining and Analytics | 3 |
| DS4073 | Introduction to Data Visualisation | 3 |
| DS4083 | Big Data Analytics | 3 |
| DS4093 | Introduction to Recommender System | 3 |
| MATH1163 | Advanced Calculus | 3 |
| PHYS2003 | Principles of Physics | 3 |
| STAT3073 | Statistical Computing | 3 |

* Students who continue with the final year project in the second semester of Year 4 should register COMP4005 Final Year Project II (COMP) as a major elective during the Online Course Selection (or Course Add/Drop) period.