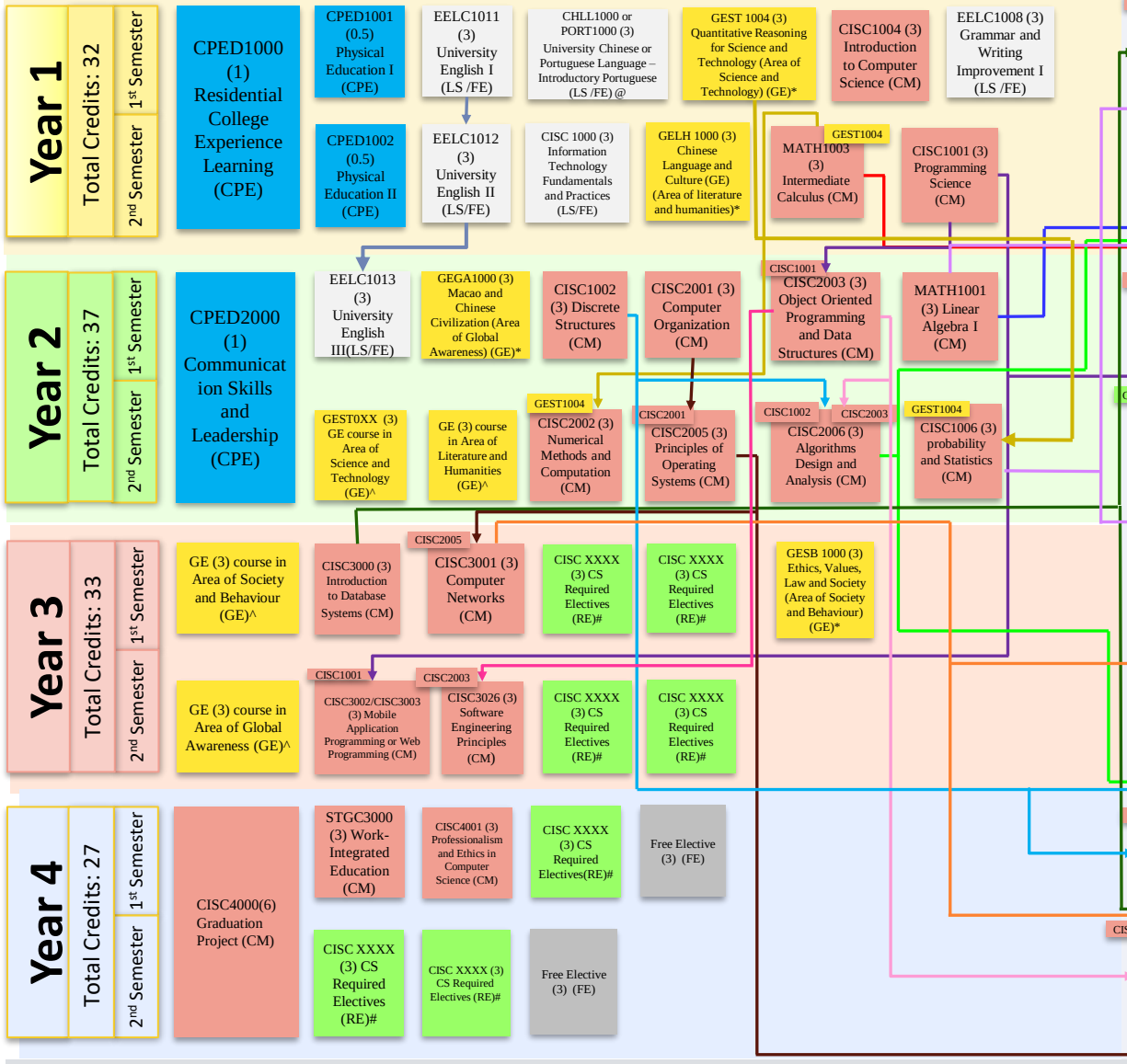
CS Programme Course Structure Academic Year 2021/2022



CS Required Elective Course List

Stream A Data Science and Artificial Intelligence

- CISC3005 (3) Advanced Database Systems (RE)
- CISC3012 (3) Artificial Intelligence (RE)
- CISC3014 (3) Information Retrieval and Web Search (RE)
- CISC3018 (3) Cloud Computing and Big Data Systems (RE)
- CISC3023 (3) Machine Learning (RE)
- CISC3024 (3) Pattern Recognition (RE)
- CISC2025 (3) Natural Language Processing (RE)

Stream B Multimedia Computing

- CISC3009 (3) Computer Graphics (RE)
- CISC3011 (3) Digital Image Processing (RE)
- CISC3016 (3) Multimedia Computing (RE)
- CISC3021 (3) Multimedia Forensics and Security (RE)
- CISC3024 (3) Pattern Recognition (RE)
- CISC3029 (3) Computer Vision (RE)

Stream C Software Engineering

- CISC2007 (3) Human-Computer Interaction (RE)
- CISC2008 (3) Object-Oriented Analysis and Design Patterns (RE)
- CISC3010 (3) Distributed Computer Systems(RE)
- CISC3020 (3) Formal Software Specification (RE)
- CISC 3022 (3) Software Testing (RE)
- CISC 4002 (3) Software Project Management(RE)

Other Electives

- CISC2004 (3) Compiler Construction (RE)
- CISC3006 (3) Computer Based Simulation (RE)
- CISC3007 (3) Formal Languages and Automata (RE)
- CISB3015 (3) Data and Information Visualization (RE)
- CISB3017 (3) Bioinformatics (RE)
- CISC 3019 (3) Competition Programming and Problem Solving (RE)
- CISC3027 (3) Special Topics in Computer and Information Science (RE)
- CISC4003 (3) Information Security (RE)
- CISC3028 (3) Enterpreneurship in Computer Science

Remarks:

(3)CPE: Community and Peer Education
(18)LS: Language and Skills
(24)GE: General Education Course
(57)CM: Compulsory Course
(21)RE: Required Electives course
(6) FE: Free Elective course

@: Students who test out of this course can take GEGA1000 in this semester. They are required to make up the credits by taking additional Free Elective(s) later

*: There are 4 GE areas and each area will have a compulsory GE course

^: In addition to the 4 compulsory GE courses, students are required to complete 1 more GE course in Area of Science and Technology and the remaining 9 credits in any areas

#: Students are required to take 4 courses from one of the Stream A, B or C, and 3 courses from outside that stream or from Other Electives