Sample Study Schedule
under Advanced Standing II (Senior-year Entry)
(For Associate Degree/Higher Diploma graduates
admitted to the senior year)

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(For Associate Degree/Higher Diploma graduates
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GE Requirements
12 credit units

College / School Requirements
All waived (0 credit unit)

Major Requirements
60 credit units

Total
(72 credit units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY1201 / CHEM1300 / CHEM1200 (College Requirement)</td>
<td>General Physics I / Principles of General Chemistry / Discovery in Biology</td>
<td>3</td>
<td>CS2204</td>
<td>Fundamentals of Internet Applications Development</td>
<td>3</td>
</tr>
<tr>
<td>CS1302</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
<td>CS2310</td>
<td>Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>JC2066</td>
<td>IT Professionals: Ethical, Legal and Social Issues</td>
<td>3</td>
<td>CS3201</td>
<td>Computer Networks</td>
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<tr>
<td>CS2115</td>
<td>Computer Organization</td>
<td>3</td>
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</tbody>
</table>

Courses Waived: 21 credit units

Catalogue Term 2023-2024

2023-2024 (3rd Year)

<table>
<thead>
<tr>
<th>Semester A</th>
<th>Units</th>
<th>Semester B</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS2611</td>
<td>Seminars on Contemporary Technology I</td>
<td>0</td>
<td>CS2611</td>
<td>Seminars on Contemporary Technology I</td>
</tr>
<tr>
<td>CS2312</td>
<td>Problem Solving and Programming</td>
<td>3</td>
<td>CS3334</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CS3103</td>
<td>Operating Systems</td>
<td>3</td>
<td>CS3342</td>
<td>Software Design</td>
</tr>
<tr>
<td>CS-E</td>
<td>CS Elective (1)</td>
<td>3</td>
<td>CS3402</td>
<td>Database Systems</td>
</tr>
<tr>
<td>MA2185</td>
<td>Discrete Mathematics</td>
<td>3</td>
<td>CS-E</td>
<td>CS Elective (2)</td>
</tr>
<tr>
<td>CSpC</td>
<td>College Specified Courses – GE (1) *</td>
<td>3</td>
<td>CS2402 (CSpC)</td>
<td>Introduction to Computational Probability Modelling - GE (3)</td>
</tr>
<tr>
<td>GE-2</td>
<td>Gateway Education – GE (2)</td>
<td>3</td>
<td>GE2410</td>
<td>English for Engineering - GE (4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>

Summer Term 2024 (3rd Year)

Encourage to participate in Go Global Activities [activities / programmes outside Hong Kong for not less than 4 weeks (28 days)]

2024-2025 (4th Year)

<table>
<thead>
<tr>
<th>Semester A</th>
<th>Units</th>
<th>Semester B</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS3504</td>
<td>IT Professional Placement</td>
<td>6*</td>
<td>CS3504</td>
<td>IT Professional Placement</td>
</tr>
<tr>
<td>CS3505</td>
<td>IT Professional Internship (subject to approval)</td>
<td>6*</td>
<td>CS3505</td>
<td>IT Professional Internship (subject to approval)</td>
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<tr>
<td>CS4514</td>
<td>Project</td>
<td>3*</td>
<td>CS4514</td>
<td>Project</td>
</tr>
<tr>
<td>CS3343</td>
<td>Software Engineering Practice</td>
<td>3</td>
<td>CS-E</td>
<td>CS Elective (3)</td>
</tr>
<tr>
<td>CS4335</td>
<td>Design &amp; Analysis of Algorithms</td>
<td>3</td>
<td>CS-E</td>
<td>CS Elective (4)</td>
</tr>
<tr>
<td>EN4262</td>
<td>English Communication Skills for Computing</td>
<td>2</td>
<td>CS-E</td>
<td>CS Elective (5) (subject to approval)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Total Credit Units: 72 (minimum graduation requirement)
Maximum Credit Units: 84 (student may opt to take more free electives provided that they have not yet reached the maximum credit limit or maximum period of study permitted.)
Electives: (minimum 12/15 credit units from the following electives)

Students may choose any of the streams by taking 3 courses of the selected stream and any 2 elective course from the list. For those who do not want to focus on a selected stream, they can take any 5 elective courses from the list.

**Artificial Intelligence Stream – Stream Core:**
(effective from Sem A 2019-20)
- CS4486 Artificial Intelligence
- CS4487# Machine Learning

Choose one out of the following two courses:
- CS4186% Computer Vision & Image Processing
- CS4386 AI Game Programming

**Other Electives:**
- CS3185 Computer Architecture
- CS3283 Distributed Systems
- CS3382 Web Usability Design and Engineering
- CS3391 Advanced Programming
- CS4280 Advanced Internet Applications Development
- CS4284 Mobile Computing
- CS4285 High Speed Multimedia Networks
- CS4288 Cryptographic Algorithms and Protocols
- CS4289 Pervasive Computing
- CS4295 Mobile Application Programming
- CS4296 Cloud Computing
- CS4297 Cloud Robotics and Automation
- CS4298 iOS Application Development

**Data Science Stream – Stream Core:**
- CS3481 Fundamentals of Data Science
- CS4480 Data-Intensive Computing
- CS4487# Machine Learning

**Other Electives:**
- CS3382 Web Usability Design and Engineering
- CS4284 Mobile Computing
- CS4285 High Speed Multimedia Networks
- CS4286 Information Retrieval

**Information Security Stream – Stream Core:**
- CS4286 Internet Security and E-Commerce Protocols
- CS4293 Topics on Cybersecurity
- CS4394 Information Security and Management

**Other Electives:**
- CS4289 Pervasive Computing
- CS4295 Mobile Application Programming
- CS4296 Cloud Computing
- CS4297 Cloud Robotics and Automation
- CS4298 iOS Application Development
- CS4367 Computer Games Design
- CS4381 Advanced Software Design
- CS4385 Topics in Software Engineering
- CS4482 Advanced Database Systems
- CS4485 Information Retrieval
- CS4552 Guided Study
- MA2172 Applied Statistics for Sciences and Engineering

**Multimedia Computing Stream – Stream Core:**
- CS3483 Multimodal Interface Design
- CS4182 Computer Graphics

Choose one out of the following four courses:
- CS4185 Multimedia Technologies and Applications
- CS4186% Computer Vision & Image Processing
- CS4187 Computer Vision for Interactivity
- CS4188 Virtual Reality

**Other Electives:**
- MA2172 Applied Statistics for Sciences and Engineering

**Software Engineering and Project Management - Stream Core:**
Choose three out of the following four courses:
- CS3346 Software Testing and Maintenance
- CS3356 Managing Software Projects
- CS4348 Software Quality Management
- CS4389 Decentralized Applications Development

#, % - same courses

**Remarks:**

1. *Partial credit units for year-long courses, granted only if completing the whole course.

2. GE = Gateway Education Requirements: Total 12 credit units, including 3 credit units in English (GE2410) and 3 credit units in distributional requirements from the three areas: ‘Arts and Humanities’, ‘Study of Societies, Social and Business Organisations’ and ‘Science and Technology’, 6 credit units in College Specified Courses (CSpC) including CS2402 "Introduction to Computational Probability Modelling" and 3 credit units from a pool of College Specified Courses.

3. Go Global Activities Activities / programmes which enable students to broaden their cultural horizons through a comprehensive and unique learning experience, either credit bearing or noncredit bearing, outside Hong Kong for not less than 4 weeks (28 days), e.g. Exchange, Internship, Cultural and Language Immersion Scheme, Service Learning and Study Abroad programme.

**College Specified Courses (choose any one from the following list)**
- GE2313 Global IT Case Studies
- GE2324 The Art and Science of Data
- GE2338 Internet Applications and Security
- GE2340 Artificial Intelligence – Past, Present, and Future
- CB2100 Introduction to Financial Accounting
- CB2300 Management
- CB2500 Information Management
- CB2601 Marketing

**Notes:**

1. **English Language Requirement**
   - To fulfil the University’s English Language Requirement, students should complete the Gateway Education (GE) English course (GE2410).

2. **Chinese Language Requirement**
   - It is not required for Advanced Standing II students.

*Updated on 31 July 2023 (subject to approval)