

Graduation Requirement for a Major Degree in Computing and a Minor in Other Disciplines

Pathway	Major / minor
Credits	99
Year: FT	3
Year: Sandwich	4

Indicative Study Pattern

	Major / Minor Pathway (99 credits)
Stage 1	
Sem 1	201 Principles of Programming
	210 Discrete Structures
	212 Computer Organization and Systems
	AMA 211 Introduction to Calculus and Linear Algebra
	ELC 2501 University English I (2 credits)
	General Education 1 (2 credits)
Sem 2	211 Data and System Modeling
	304 Operating Systems
	305 Data Structures and Algorithms
	MM 2021 Management and Organization
	AF 2104 Business Accounting <i>or</i> AF 2108 Financial Accounting <i>or</i> AF 2111 Accounting for Decision Making
	3-credit non-COMP Elective
S1-3	Optional IC Training <i>34 credits</i>
Stage 2	
Sem 1	302 Foundations of Software Engineering
	311 Foundations of Database Systems
	312 Computer Communications Networks
	Minor-1
	Minor-2
	CBS 3003 Professional Written Chinese for Computing Students (2 credits)
Sem 2	COMP Elective 1
	COMP Elective 2
	COMP Elective 3
	Minor-3
	CBS 3004 Professional Communication in Putonghua for Computing Students (1 credit)
	ELC 3507 English for Technical Project Writing
	<i>33 credits</i>
Year 3	<i>Optional placement</i>
Stage 3	
Sem 1	451 Final Year Project (4 credits)
	452 Computing Professionals in Society
	COMP Elective 4
	Minor-4
	Minor-5
Sem 2	451 Final Year Project (5 credits)
	COMP 4-Elective 5
	COMP 4-Elective 6
	Minor-6
	General Education 2 (2 credits)
	<i>32 credits</i>
Total	99 credits

Note:

- General Education subjects may be taken in any semester.
- **3-Elective** means level 3 elective subject; **4-Elective** means level 4 elective subject; **Elective** refers to free electives (any level) offered by COMP.
- Students may take two COMP electives and one minor subject in semester 1 of final year and to take one COMP elective and two minor subjects in semester 2.
- One COMP elective would be replaced by a Minor subject if that Minor requires 21 credits and that MM 2021 and AF 2104/AF 2108 cannot be counted towards that Minor.
- MM 2021 and AF 2104/AF 2108 may be replaced by two COMP subjects if these two can be used to satisfy the Minor requirement (a minor in MM or AF).

Tentative List of COMP Elective Subjects:

Level	Subject
Level 3 Broadening	
	303 Human Factors and User Interfaces
	309 System Programming
	316 Object Oriented Methods for Information Systems Development
	318 Systems Simulation
	319 Introduction to Multimedia Computing
	320 Introduction to Internet Computing
	321 Introduction to E-business
	323 Introduction to Chinese Computing
	324 Project Methodology and Implementation
	325 Information System Management
Level 4 Specialization	
	406 Artificial Intelligence
	407 Computer Graphics
	408 Parallel and Distributed Computing
	416 Internetworking Protocols and Software
	417 Data Warehousing and Data Mining Techniques in Business and Commerce
	418 Electronic Commerce
	422 Multimedia Systems and Applications
	431 Business Process and Workflow Management
	432 Logistics Management
	433 Information Retrieval
	434 Computational Models
	435 Biometrics and Security
	436 Middleware and Distributed Objects
	437 Mobile Computing
	439 Game Programming
	440 Customer Relationship Management
	441 Software Testing and Quality Assurance
	442 Decision Support Systems
	443 Knowledge and Information Management
	444 Internet Infrastructure Security
	445 Software Process and Project Management
	446 Computational Finance
	447 Scientific Computing
	448 Virtual Reality and Applications
	449 Information Systems Audit and Control
	450 IT Governance