

3.2.11 Bachelor of Computing in Information Systems

Objective

The four-year IS programme will provide students with a deep appreciation of the organizational context of ICT; strong proficiency in the design and development of value-adding infocomm solutions; and strong proficiency in the cost-effective management of infocomm projects. This multidisciplinary education on information systems focuses on the application and management of information technology to enhance the effectiveness of organisations and businesses. It also analyses the impact and trends of technology and the relevant implications for the economy and the society.

The programme has gained recognition by ABET Inc., the world-respected US-based accreditation agency. The agency certified that the programmes are “substantially equivalent” to accredited programmes in the United States, which is the standard status that the agency offer to universities outside the United states.

IS graduates will be equipped with relevant knowledge to target for short to medium term positions as techno-strategist, ICT solutions architect, systems integrator, business process consultant/analyst, and infocomm project manager. Possible employers include end users of ICT, system integrators, consulting firms, market research firms, regulatory agencies and investment advisors.

University Scholars Programme (Information Systems)

Students in the University Scholars Programme who choose the Bachelor of Computing (Information Systems) major will take the Information Systems programme, but with the following variations:

1. They will not be required to read University Level Requirements (20 MCs) (These are replaced by appropriate First-Tier Scholars Modules.)
2. They will be required to read two (instead of three) modules from the level-3000 module group (CS3250, CS3251, CS3254, CS3255, CS3260, CS3264). [Namely, 4 MCs fewer]
3. They will be required to read three (instead of four) modules from the level-4000 module group (CS4245, CS4250, CS4251, CS4252, CS4253, CS4254, CS4255, CS4265, CS4266). [Namely, 4 MCs fewer]
4. They will have 11 (instead of 31) MCs under Unrestricted Electives.

Table 11: Summary of degree requirements for B.Comp. (Information Systems)

Modules	MCs	Subtotals
UNIVERSITY LEVEL REQUIREMENTS		20
PROGRAMME REQUIREMENTS		109
<i>Common Essentials</i>		
CS1101/S Programming Methodology	5	
CS1102/S Data Structures and Algorithms	5	
CS1105 Computing and Society	3	
CS2100 Computer Organisation	4	
CS2102 Database Systems	4	
CS2105 Introduction to Computer Networks	4	
CS2261 Enterprise Systems Development	4	
<i>Major Requirements</i>		
EC1301 Principles of Economics	4	
One accounting module (e.g. FNA1002)	4	
ST2334 Probability and Statistics	4	
CS1231 Discrete Structures	4	
CS2106 Operating Systems	4	
CS2301 Business and Technical Communication	4	
CS2250 Fundamentals of Information Systems	4	
CS3253 Management of IS	4	
CS3214 Information Systems Development Project	8	
CS3250 Management Support Systems CS3251 Technology Strategy and Management CS3254 Information Security Management CS3255 Information Organisation CS3260 Telecommunications for Business CS3264 Enterprise Resource Planning Systems	12 (Choose 3 modules)	
Either: CS4101 Honours Project or Three modules from IS Elective course list	12	
<i>IS Elective Course List</i> CS4245 Multimedia E-Learning Environment CS4250 IS Research Methodologies CS4251 Strategic IS Planning CS4252 Control, Audit and Security of IS CS4253 Information Systems Consulting CS4254 IS Project Management CS4255 IT Outsourcing and Offshoring Management CS4265 Advanced Topics in E-Commerce CS4266 IT and Customer Relationship Management	16 (choose 4 modules)	
UNRESTRICTED ELECTIVES		31
Grand Total		160