

4.2.12 Bachelor of Computing in Information Systems

Objective

The four-year IS programme will provide a multidisciplinary education on information systems, combining the disciplines of computer science and management. The programme 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 society.

IS graduates will be able to develop and manage business information systems, with an excellent understanding of the required technology and the organisational environment.

IS graduates will meet the market demand for MIS specialists, management consultants, and technology analysts. Possible employers include end users, system integrators, consultancies, 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 (28 MCs) (These are replaced by appropriate First-Tier Scholars Modules.)
2. They will be required to read two (instead of three) modules from the 3000-level module group (CS3250, CS3251, CS3254, CS3255, CS3260, CS3264). [Namely, four MCs fewer]
3. They will be required to read three (instead of four) modules from the 4000-level module group (CS4245, CS4250, CS4251, CS4252, CS4253, CS4254, CS4265). [Namely, four MCs fewer]
4. They will have 10 (instead of 22) MCs under Unrestricted Electives.

Table 8: Summary of degree requirements for B.Comp. (Information Systems)

Modules	Modular Credits	Subtotals
UNIVERSITY LEVEL REQUIREMENTS		28
PROGRAMME REQUIREMENTS		110
<i>Common Essentials</i>		
CS1101/S Programming Methodology	5	
CS1102/S Data Structures and Algorithms	5	
CS1104 Computer Organisation	4	
CS1105 Computing and Society	4	
CS2102 Database Systems	4	
CS2105 Computer Networks I	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 List¹⁴</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 CS4265 Advanced Topics in E-Commerce	16 (choose 4 modules)	
UNRESTRICTED ELECTIVES		22
Grand Total		160

¹⁴ We are currently reviewing industry trends and will propose more modules that are in line with these trends.