

Department of Information Systems

The programme requirements in the Bachelor of Computing in Information Systems and the Bachelor of Computing in e-Commerce will apply to AY2000-1 and AY2001-2 (**incl. poly AY2002-03**) Cohorts.

Bachelor of Computing in e-Commerce

The **4-year joint e-commerce programme** is offered by School of Computing (SoC) and Faculty of Business Administration (FBA). The programme focuses on the deployment of Internet technology to enhance the business capabilities of organizations and businesses.

EC graduates will be educated with (a) a deep understanding and command of the theory and practice of internet technology, (b) a broad understanding of business, and (c) a thorough understanding of the deployment of IT to create business opportunities.

EC graduates will be able to develop and plan e-commerce systems, either as part of traditional organizations, or as part of new internet companies.

EC graduates will be especially well prepared for e-commerce careers, such as e-commerce developer, e-commerce analyst and consultant. With e-commerce happening in every industry, graduates will have a wide selection of employment. With their excellent multidisciplinary education, graduates can choose from more technically oriented careers to more business oriented careers. Besides e-commerce careers, graduates will also be in excellent positions to contribute in more traditional IT careers.

Bachelor of Computing in Information Systems

The **4-year IS programme** will provide a multi-disciplinary 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 organizations and businesses. It also analyzes 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 organizational 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.

Curriculum Structure

Please refer to Table 1 for an overview on the degree requirements of these programmes.

Table 1 Degree Requirements for B.Comp.(e-Commerce) and B.Comp.(Information Systems) for AY2000-1 and AY2001-2 (incl. poly AY2002-03) Cohorts

Modules	E-Commerce (4yr)	Information Systems (4yr)
	Modular Credits (MC)	Modular Credits (MC)
NUS Breadth Requirement		
ULR ¹	28	28
2001 intake: Human Resource Management	-	-
2000 intake: Human Resource Management/CFM	3/4	3/4
Other Breadth Requirement		
CS2301 Business & Tech Communications	3 (4) [@]	3 (4)
EC1310 Principles of Economics	4	4
One accounting module (e.g. BH1002 Financial Accounting)	-	3 (4)
ST2334 Probability and Statistics	-	4
School of Business modules (choose 3 modules)	12	-
Free electives	13 (12)	8 (7)
Essentials		
<i>Common Essentials</i>		
CS1101/S Programming Methodology	5	5
CS1102 Data Structures and Algorithms	5	5
CS1104 Computer Organization	4	4
CS1105 Computing and Society	3 (4)	3 (4)
CS2102 Database Systems	3 (4)	3 (4)
CS2103 Software Engineering	4	4
CS2105 Computer Networks I	4	4
Programme Essentials / Electives		
CS1231 Discrete Structures	-	3 (4)
CS2106 Operating Systems	-	4
CS2250 Fundamentals of Information Systems	3 (4)	3 (4)
CS3253 Management of Information Systems	-	3 (4)
CS3235 Computer Security	3 (4)	-
CS3214 Information Systems Development Project	-	8
CS3266 E-Commerce Technologies	5	-
CS3250 Management Support Systems CS3251 Technology Strategy and Management CS3252 Management Science CS3260 Telecommunications for Business CS3264 Enterprise Resource Planning Systems	3 (4) (Choose 1 module)	9 (12) (Choose 3 modules)
CS3261 IT Marketing CS3262 Investment Technology* CS3265 Economics of e-business CS3240 Human Computer Interaction	6 (8) (Choose 2 modules)	
CS4260 E-Commerce Business Models	3 (4)	-
CS4264 E-Commerce: B2C Applications	3 (4)	-
CS4245 Multimedia e-Learning Environment CS4250 IS Research Methodologies CS4251 Strategic IS Planning CS4252 Control, Audit and Security of IS CS4253 Information Systems Consulting CS4265 Advance Topics in E-Commerce CS4261 Forecasting and Time Series Analysis*	6 (8) (Choose 2 modules)	12 (16) (Choose 4 modules)
CS4101 Honours Project	12	12
CS4102 Technical & Management Training	-	-
Total	At least 135	At least 135

¹ For JC students matriculated in July 2000 and polytechnic students entering in July 2001, the ULR requirement is not compulsory. They are encouraged to take CFMs, UROP and other SoC modules.

[@] () denotes new MC for module wef AY2002-3.

* This module is no longer offered.

Current list of Business modules available to different cohorts:

2000 cohort: BH1002, BH1003, BH1004, BZ2004, BZ3401, BZ3402, BZ3602,
BZ3603, BZ3613, BZ3614

2001 and 2002 cohorts: BH1002, BH1003, BH1004, BZ2004, BZ2005, BZ3201, BZ3204,
BZ3202, BZ3205, BZ3702

The above list may be modified from time to time to incorporate new Business modules available from School of Business as the School deems fit.