2011 - 2013
Recommended Progression

Bachelor of Science (Professional Software Development)
I053

Program Coordinator:
Diana Kuo EN510e
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This degree requires students to successfully complete 300 credit points of approved units of study, equivalent to three years of full-time study. In addition, students complete a non-credit unit - Careers in the Curriculum.

	2014 Code	Former Code	Title	Semester	Prerequisite	Exempt	Completed
Stage 1							
Semester 1	COS10001	HIT1301	Algorithmic Problem Solving	1	Nil		
	INF10002	HIT1402	Database, Analysis and Design	1&2	Nil		
	COS10003	HIT1312	Computer and Logic Essentials	1	Nil		
	COS10010	HIT1322	Enterprise Technologies & Architectures OR	1&2	Nil		
	INF10003	HIT1401	Introduction to Business Information Systems	1&2	Nil		
Semester 2	COS10011	HIT1307	Internet Technologies	1&2	Nil		
	COS20007	HIT2302	Object-Oriented Programming	2	65% in HIT1301		
	COS10004	HIT2313	Computer Systems	2	HIT1312		
	COS20001	HIT2316	Usability	1&2	Nil		
Stage 2							
Semester 1	EDU10015	HIT0004	Careers in the Curriculum	1&2	Nil		
	COS20012	HIT2120	Data Commmunications & Security OR	1	HIT2302		
	TNE10002	HET104	LAN Principles	1&2	Nil		
	SWE20001	HIT2308	Software Development Practices	1&2	HIT1301 & HIT2302		
	COS30008	HIT3303	Data Structures and Patterns	1&2	HIT2302		
			Advanced minor/minor/Electives Plus				
Semester 2	COS30009	HIT3304	Database Programming	1&2	HIT2302 & HIT1402 Co-Req HIT2308		
	SWE20003	HIT3309	Software Project Practices & Management	1&2	HIT2308 & HIT2302		
	ICT30005	HIT3044	Professional Issues in IT	1&2	Completion of 150 cp		
			Advanced minor/minor/Electives Plus				
Stage 3							
Semester 1	COS30019	HIT3002	Introduction to Artificial Intelligence	1	HIT2302		
	COS30021	HIT3105	Software Development Project A	1	HIT3303 & HIT3309. Co-Req HIT3310, Must enrol in HIT3205 in same calendar year		
	SWE30003	HIT3310	Software Architectures & Design	1	HIT2308		
			Advanced minor/minor/Electives Plus				
Semester 2	COS30023	HIT3315	Languages in Software Development	2	HIT2302		
	COS30022	HIT3205	Software Development Project B	2	HIT3105 in same calendar year		
	SWE30004	HIT3311	Software Deployment and Evolution	2	HIT3309		
			Advanced minor/minor/Electives Plus				

Students may undertake an optional and additional year of Industry Based Learning at the end of Stage 2 (not available to international students).

Program Rules
Students complete at least 24 units of study (300 cp) according to the following rules:
- Software Development Core studies - 16 units
- Advanced minor - 4 units
- 4 electives - minor, advanced ICT minor, Electives Plus minor or ICT electives
- Generic Skills Studies (completion of HIT0004 required)

2011 - 2013 Program Planner

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(Professional Software Development) I053

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	2014 Code /	Former Code / Unit Name
Software Development Core Studies	COS10001	HIT1301 Algorithmic Problem Solving
	COS10011	HIT1307 Internet Technologies
	COS10003	HIT1312 Computer and Logic Essentials
	INF10002	HIT1402 Database, Analysis and Design
	COS20012	HIT2120 Data Communications and Security
	TNE10002	Or HET104 LAN Principles
	COS20007	HIT2302 Object-Oriented Programming
	SWE20001	HIT2308 Software Development Practices
	COS10004	HIT2313 Computer Systems
	COS20001	HIT2316 Usability
		HIT3303 Data Structures and Patterns
	SWE20003	HIT3309 Software Project Practices and Management
	COS30023	HIT3315 Languages in Software Development
	COS30019	HIT3002 Introduction to Artificial intelligence
	ICT30005	HIT3044 Professional Issues in IT
	SWE40001	HIT3158 Software Engineering Project A
	SWE40002	HIT3258 Software Engineering Project B
Advanced Minor	COS10010	HIT1322 Enterprise Technologies and Architectures
	INF10003	OR HIT1401 Introduction to Business Information Systems
	INF10003	HIT3304 Database Programming
	SWE30003	HIT3310 Software Architectures and Design
	SWE30004	HIT3311 Software Deployment and Evolution
Generic Skills Studies (0 CP)	EDU10015	HIT0004 Careers in the Curriculum
4 Electives (choose from)	TNE10002	HET104 LAN Principles
	TNE30019	HET306 UNIX for Telecommunications
	TNE30009	HET317 Network Security & Resilience
	TNE10005	HET410 Network Administration
	TNE20001	HET424 IP Technologies
	INF20012	HIT2416 Enterprise Systems
	INF20010	HIT2422 Database Systems
	INF20013	HIT2425 Business Systems Programming in .NET
	COS30002	HIT3046 Artificial Intelligence for Games
	COS30029	HIT3083 Digital Graphics
	COS30005	HIT3087 Advanced Java
	COS30018	HIT3138 Intelligent Systems
	COS30014	HIT3172 Object-Oriented Programming in C++
	INF30005	HIT3405 Business Process Modelling
	INF30020	HIT3408 IS Risk and Security
	INF30001	HIT3410 Systems Acquisition & Implementation Management
	INF30003	HIT3412 Business Information Systems Analysis
	INF30004	HIT3413 Business Intelligence
	INF30011	HIT3421 Database Implementation
	INF30014	HIT3423 Enterprise Systems Management
	INF30010	HIT3428 Database Administration
	INF30015	HIT3478 Information and Knowledge Management
	TNE30018	HIT3702 Enterprise Network Server Administration
	TNE30015	HIT3723 Advanced Routing
	TNE60004	HIT3724 Advanced Switching
	ICT40007	HIT4071 Research Project