

Faculty of Computer Science and Engineering
Degree Handbook - UG Students

SPRING 2011

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UOWD

University of Wollongong in Dubai

Bachelor of Computer Science (BCS)

The Bachelor of Computer Science (BCS) degree provides a general education in many aspects of Computer Science and Software Development. Computers have revolutionized the way we live today. Most facets of our lives depend, to a greater or lesser degree, on computers. From telephone systems to security systems, accounting to marketing, baby monitors to auto-pilot options, every industry, every household and every office is looking to 'up grade' itself by means of new technology and new software. This has invariably given rise to a high demand for software developers around the globe. The BCS degree prepares graduates to become a part of this growing industry, through rigorous and intensive practical programming courses, backed by sound concept models.

Course Requirements

Students are required to complete thirty three (33) subjects or at least 204 credit points (cp) by satisfactory completion of twenty three (23) core Computer Science and General Education subjects and ten (10) electives from the approved elective list in the degree planner:

1. No more than 60 cp will count towards General Education (GEC).
2. In addition, at least 144 cp chosen from the approved academic degree planner
3. At least 36 credit points of 300-level subjects of which 24 credit points must be CSCI subjects, including CSCI 321.
4. At least 24 cp of CSCI 300-level subjects, including CSCI321, must be at 'Pass' grade or better.
5. No more than a total of 24 credit points of subjects at 100 level or higher (i.e. 200 level and 300 level) should be at 'PC' grade.
6. Achieve an overall Weighted Average Mark (WAM) of 50% average at UOWD.

Degree Planner for Bachelor of Computer Science

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 1	ARTS015	6	Introduction to University Life	NA	General Education	Annual
	MATH015	6	Foundation Mathematics A	NA	General Education	Annual
	CSCI015	6	Computer Applications	NA	General Education	Annual
	STAT015	6	Introduction to Statistics	NA	General Education	Annual
	CSCI103	6	Algorithms and Problem Solving	NA	BCS Core	Annual
	ARTS017	6	Islamic Culture	NA	General Education	Annual
	CSCI114	6	Procedural Programming	CSCI015	BCS Core	Annual
	ENVI030	6	Environmental Studies	ARTS1015	General Education	Annual
Choose 2 subjects from the list of GEC electives						

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 2	CSCI124	6	Applied Programming	CSCI103 & CSCI114	BCS Core	Annual
	CSCI102 /ISIT102	6	Systems	CSCI015	BCS Core	Annual
	MATH121	6	Discrete Mathematics	MATH015	BCS Core	Annual
	IACT201	6	Information Technology & Citizen's Rights	24CP @ 100-level	General Education	Annual
	STAT131	6	Understanding Variation and Uncertainty	STAT015	BCS Core	Annual
	CSCI131	6	Introduction to Computer Systems	CSCI103 & CSCI114	BCS Core	Autumn
	CSCI212	6	Interacting Systems	CSCI124 + CSCI102	BSC Core	Spring
	Choose 1 subject from the list of GEC electives					

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 3	CSCI204	6	Object Programming & Frameworks	CSCI124	BSC Core	Autumn
	CSCI235	6	Databases	CSCI124	BCS Core	Autumn
	CSCI 205	6	Development methods and Tools	CSCI 124	BSC Core	Autumn
	CSCI203	6	Algorithms & Data Structures	CSCI124	BCS Core	Spring
	CSCI222	6	Systems Development	CSCI204	BCS Core	Spring
	Choose 3 subjects from the list of electives for Computer Science					

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 4	CSCI321*	12	Project (2 Semesters)	(CSCI222+ CSCI204) or (CSCI213+ CSCI222) or (CSCI213 +CSCI204) AND 12cp of 200 level subjects	BCS Core	Annual
	CSCI 311	6	Software Process Management	CSCI 205	BCS Core	Autumn
	CSCI 325	6	Software Engineering Formal Methods	CSCI 204	BCS Core	Spring
	Choose 4 subjects from the list of electives for Computer Science					

GEC *- General Education Electives (Choose any 3)

It is advised not to take 5 subjects in the second semester. You may take only one of the GEC subjects in this session and the other one in a summer session.

Code	CP	Title	Pre-requisites	Semester
MATH020 <i>(recommended elective)</i>	6	Foundation Mathematics B	MATH015	Annual
ARTS 035	6	Introduction to Philosophy	None	Annual
PSYC 015	6	Introduction to Psychology	ARTS 015	Annual
LAW 101	6	Law, Business and Society	None	Annual
MGMT 102	6	Business Communication	ARTS 015	Annual

DEGREE ELECTIVES (choose any 7)

Choose **seven** electives from the following list strictly of which

- Maximum of 3 subjects at 100 level
- Minimum of 2 subjects at 300 level

Code	CP	Title	Pre-requisites	Semester
100 LEVEL (Maximum 3 subjects)				
ACCY 100	6	Accounting 1A	ARTS 015	Annual
ACCY 102	6	Accounting 1B	ACCY 100	Annual
ECON 101	6	Macro economical Essentials for Business	ARTS 015	Annual
ECON 111	6	Introductory Microeconomics	ARTS 015	Annual
ECTE 182	6	Internet Technology 1	None	Spring
MARK 101	6	Marketing Principles	ARTS 015	Annual
MGMT 110	6	Introduction to Management	ARTS 015	Annual
200 LEVEL				
BUSS 211 (ISIT100)	6	Requirements determination and system analysis	6 CP @ 100 level	Autumn
CSCI 213	6	Java programming and object oriented design	CSCI 124	Spring
IACT 202	6	The structure and organisation of Telecommunications	CSCI 102 or CSCI 114	Spring
MGMT 201	6	Organisational Behaviour	MGMT 110	Spring
MGMT 206	6	Human Resource Management	MGMT 110	Spring
300 LEVEL (Minimum 2 subjects)				
COMM 351	6	Business ethics and governance	72 CP	Annual
CSCI 315	6	Database Design and Implementation	CSCI235	
CSCI 323	6	Artificial Intelligence	CSCI 204 & 6CP of 200 level CSCI subjects	Spring
CSCI 324	6	Human Computer Interaction	CSCI 204 & 6CP of 200 level CSCI subjects	Autumn
CSCI 336	6	Computer graphics	CSCI 204 & 6CP of 200 level CSCI subjects	Autumn
CSCI 399	6	Server Technology	CSCI213	Spring
IACT 301	6	Information and communication security issues	IACT 201	Spring
IACT 303	6	World Wide Networking	CSCI 102 or CSCI 213	Autumn
IACT 304	6	Principles of e-Business	12 CP of IACT or CSCI subjects	Spring
IACT 305	6	eBusiness technologies	6 CP 200 level IACT or CSCI	Autumn
MARK 301	6	Internet Applications for Marketing	MARK 101	Autumn
MARK 343	6	International Marketing	MARK 101	Autumn

Recommended degree planner for students starting at Autumn:

Year 1 Autumn	Year 1 Spring	Year 2 Autumn	Year 2 Spring	Year 3 Autumn	Year 3 Spring	Year 4 Autumn	Year 4 Spring
MATH015	MATH020 <i>(recommended)</i>	GEC Elective	MATH121	CSCI204	CSCI203	CSCI321*	CSCI321
CSCI015	GEC Elective	CSCI102 /ISIT102	IACT201	CSCI235	CSCI222	CSCI 311	CSCI 325
STAT015	ENVI030	CSCI131	CSCI212	CSCI 205	Elective	Elective	Elective
CSCI103	CSCI114	CSCI124	STAT131	Elective	Elective	Elective	Elective
ARTS015	ARTS017						

Recommended degree planner for students starting at Spring:

Year 1 Spring	Year 1 Autumn	Year 2 Spring	Year 2 Autumn	Year 3 Spring	Year 3 Autumn	Year 4 Spring	Year 4 Autumn
MATH015	MATH020 <i>(recommended)</i>	MATH121	IACT201	CSCI203	CSCI 205	CSCI321*	CSCI321
CSCI015	GEC Elective	CSCI102 /ISIT102	CSCI204	CSCI222	CSCI 311	CSCI 325	Elective
STAT015	ENVI030	STAT131	CSCI235	CSCI212	Elective	Elective	Elective
CSCI103	CSCI114	CSCI124	CSCI131	GEC Elective	Elective	Elective	Elective
ARTS015	ARTS017						



UOWD

University of Wollongong in Dubai

Bachelor of Computer Science in Digital Systems Security

Digital Information systems security is considered nowadays the first line of defence for government, individuals and businesses against all kind of dangers. The goals of the Bachelor of Computer Science in Digital Security Systems program are to:

- Create proficient information security professionals capable of protecting information assets from all types of threats associated with the modern usage of information.
- Provide students with practical knowledge and skills necessary to understand analyse and design information security solutions for the protection of the information assets of an organization.
- Equip students with knowledge and expertise to assess and mitigate security risks, related to threats and vulnerabilities of assets, in today's business information systems.

Program Requirements

Students who enrol in Bachelor of Computer Science in Digital Systems Security are required to complete thirty three (33) subjects or at least 204 credit points (cp) by satisfactory completion of twenty nine (29) core DSS and General Education subjects and four (4) electives from the approved elective list in the degree planner:

1. No more than 60 cp will count towards General Education (GEC).
2. In addition, at least 144 cp chosen from the approved academic degree planner
3. At least 36 credit points of 300-level subjects of which 24 credit points must be CSCI subjects, including CSCI 321.
4. At least 24 cp of CSCI 300-level subjects, including CSCI321, must be at 'Pass' grade or better.
5. No more than a total of 24 credit points of subjects at 100 level or higher (i.e. 200 level and 300 level) should be at 'PC' grade.
6. Achieve an overall Weighted Average Mark (WAM) of 50% average at UOWD.

Degree Planner for Bachelor of Computer Science (Digital Systems Security)

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 1	ARTS015	6	Introduction to University Life	NA	General Education	Annual
	MATH015	6	Foundation Mathematics A	NA	General Education	Annual
	CSCI015	6	Computer Applications	NA	General Education	Annual
	STAT015	6	Introduction to Statistics	NA	General Education	Annual
	CSCI103	6	Algorithms and Problem Solving	NA	BCS Core	Annual
	ARTS017	6	Islamic Culture	NA	General Education	Annual
	CSCI114	6	Procedural Programming	CSCI015	BCS Core	Annual
	ENVI030	6	Environmental Studies	ARTS1015	General Education	Annual
	MATH020	6	Foundation Mathematics B	MATH015	General Education	Annual
	PSYC 015	6	Introduction to Psychology	ARTS 015	General Education	Annual

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 2	CSCI124	6	Applied Programming	CSCI103 & CSCI114	BCS Core	Annual
	CSCI102 /ISIT102	6	Systems	CSCI015	BCS Core	Annual
	MATH121	6	Discrete Mathematics	MATH015	BCS Core	Annual
	IACT201	6	Information Technology & Citizen's Rights	24CP @ 100-level	General Education	Annual
	STAT131	6	Understanding Variation and Uncertainty	STAT015	BCS Core	Annual
	CSCI131	6	Introduction to Computer Systems	CSCI103 & CSCI114	BCS Core	Autumn
	CSCI212	6	Interacting Systems	CSCI124 + CSCI102	DSS Major	Spring
	LAW 101	6	Law, Business and Society	None	General Education	Annual

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 3	CSCI204	6	Object Programming & Frameworks	CSCI124	BSC Core	Autumn
	CSCI235	6	Databases	CSCI124	BCS Core	Autumn
	CSCI203	6	Algorithms & Data Structures	CSCI124	BCS Core	Spring
	CSCI222	6	Systems Development	CSCI204	BCS Core	Spring
	CSCI214/CSCI319	6	Distributed Systems	CSCI124	DSS Major	Autumn
	CSCI262	6	System Security	CSCI124	DSS Major	Autumn
	CSCI361	6	Computer Security	CSCI204 & 6CP of 200 Level Subjects	DSS Major	Spring
	IACT301	6	Information & Communication Security Issues	IACT201	DSS Major	Spring

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 4	CSCI321*	12	Project (2 Semesters)	(CSCI222+ CSCI204) or (CSCI213+ CSCI222) or (CSCI213 +CSCI204) AND 12cp of 200 level subjects	BCS Core	Annual
	CSCI371	6	Special Topics in Computer Security	CSCI214 & CSCI262 & CSCI361	DSS Major	Autumn
	CSCI368	6	Network Security	CSCI361	DSS Major	Spring
	CSCI399	6	Server Technology	CSCI213	DSS Major	Spring
Choose 3 subjects from the list of Digital systems Security electives.						

ELECTIVES – (choose any 3)

Code	CP	Title	Pre-requisites	Semester
100 LEVEL				
ECTE 182	6	Internet Technology 1	None	Spring
200 LEVEL				
CSCI 205	6	Development methods and Tools	CSCI 124	Autumn
CSCI 213	6	Java programming and object oriented design	CSCI 124	Spring
300 LEVEL				
BUSS312	6	Business Data Communications	6 CP of 200 level CSCI subjects	
CSCI 315	6	Database Design and Implementation	CSCI235	
CSCI 325	6	Software Engineering Formal Methods	CSCI 204	Spring
IACT 303	6	World Wide Networking	CSCI 102 or CSCI 213	Autumn
CSCIXXX	6	Internship	24cp @200 Level in CSCI subjects	Summer

** If Internship is taken as one of the Electives it must be completed during the Summer Session at either the end of the 3rd Year or at the end of the 4th Year of studies provided the pre-requisites have also been successfully completed

Recommended degree planner for students starting at Autumn:

Year 1 Autumn	Year 1 Spring	Year 2 Autumn	Year 2 Spring	Year3 Autumn	Year 3 Spring	Year 4 Autumn	Year 4 Spring
MATH015	MATH020	LAW101	MATH121	CSCI204	CSCI203	CSCI321*	CSCI321
CSCI015	PSY015	CSCI102 /ISIT102	IACT201	CSCI235	CSCI222	CSCI 371	CSCI 368
STAT015	ENVI030	CSCI131	CSCI212	CSCI 214/ CSCI319	IACT301	Elective	CSCI399
CSCI103	CSCI114	CSCI124	STAT131	CSCI 262	CSCI361	Elective	Elective
ARTS015	ARTS017						

Recommended degree planner for students starting at Spring:

Year 1 Spring	Year 1 Autumn	Year 2 Spring	Year 2 Autumn	Year3 Spring	Year 3 Autumn	Year 4 Spring	Year 4 Autumn
MATH015	MATH020	MATH121	IACT201	CSCI203	CSCI204	CSCI321*	CSCI321
CSCI015	PSY015	CSCI102 /ISIT102	CSCI204	CSCI222	CSCI 214/ CSCI319	CSCI 368	CSCI 371
STAT015	ENVI030	STAT131	CSCI235	CSCI212	CSCI 262	CSCI399	Elective
CSCI103	CSCI114	CSCI124	CSCI131	IACT301	Elective	CSCI361	Elective
ARTS015	ARTS017						



UOWD

University of Wollongong in Dubai

Bachelor of Computer Science in Multimedia Technology

The Bachelor of Computer Science (BCS) in Multimedia Technology degree provides an education in multimedia technologies and its applications and multimedia application development. Multimedia has changed the way we interact with computers and each other. This degree enhances students' opportunities for intellectual, aesthetic and creative development through the integration of theory, technical knowledge, software systems and design principles to create high quality multimedia products. Multimedia specialization provides students with a wide range of transferable and marketable skills and a flexible and resourceful approach, necessary for employability in a rapidly developing industry.

Course Requirements

Students who enrol in the Bachelor of Computer Science (BCS) in **Multimedia Technology** are required to complete thirty three (33) subjects or at least 204 credit points (cp) by satisfactory completion of 29 core MT and General Education subjects and 4 electives from the approved elective list in the degree planner:

6. No more than 60 cp will count towards General Education (GEC).
 7. In addition, at least 144 cp chosen from the approved academic degree planner
 8. At least 36 credit points of 300-level subjects of which 24 credit points must be CSCI subjects, including CSCI 321.
 9. At least 24 cp of CSCI 300-level subjects, including CSCI321, must be at 'Pass' grade or better.
 10. No more than a total of 24 credit points of subjects at 100 level or higher (i.e. 200 level and 300 level) should be at 'PC' grade.
6. Achieve an overall Weighted Average Mark (WAM) of 50% average at UOWD.

Degree Planner for Bachelor of Computer Science (BCS) in Multimedia Technology

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 1	ARTS015	6	Introduction to University Life	NA	General Education	Annual
	MATH015	6	Foundation Mathematics A	NA	General Education	Annual
	CSCI015	6	Computer Applications	NA	General Education	Annual
	STAT015	6	Introduction to Statistics	NA	General Education	Annual
	CSCI103	6	Algorithms and Problem Solving	NA	BCS Core	Annual
	ARTS017	6	Islamic Culture	NA	General Education	Annual
	CSCI114	6	Procedural Programming	CSCI015	BCS Core	Annual
	ENVI030	6	Environmental Studies	ARTS1015	General Education	Annual
	MATH020 or ARTS035	6 6	Foundation Mathematics B Introduction to Philosophy	MATH015 NA	General Education	Annual
PSYC 015	6	Introduction to Psychology	ARTS 015	General Education	Annual	

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 2	CSCI124	6	Applied Programming	CSCI103 & CSCI114	BCS Core	Annual
	CSCI102 /ISIT102	6	Systems	CSCI015	BCS Core	Annual
	MATH121	6	Discrete Mathematics	MATH015	BCS Core	Annual
	IACT201	6	Information Technology & Citizen's Rights	24CP @ 100-level	General Education	Annual
	STAT131	6	Understanding Variation and Uncertainty	STAT015	BCS Core	Annual
	CSCI131	6	Introduction to Computer Systems	CSCI103 & CSCI114	BCS Core	Autumn
	CSCI235	6	Databases	CSCI124	BCS Core	Autumn
	LAW 101	6	Law, Business and Society	NA	General Education	Autumn

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 3	CSCI204	6	Object Programming & Frameworks	CSCI124	BSC Core	Autumn
	DESN290	6	Introduction to Graphic Design Fundamentals	24 credit points at 100 level	MT core	Spring
	CSCI240	6	Multimedia Programming Foundations	CSCI124	MT core	Autumn
	CSCI203	6	Algorithms & Data Structures	CSCI124	BCS Core	Spring
	CSCI222	6	Systems Development	CSCI204	BCS Core	Spring
	CSCI236	6	3D Modeling and Animation	12cp @ 200 level of CSCI subjects	MT core	Spring
	DESN211	6	Introduction to Web Design	DESN290	MT core	Autumn
Choose 1 subject from the list of electives for Computer Science Multimedia Technologies						

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 4	CSCI321*	12	Project (2 Semesters)	(CSCI222+ CSCI204) or (CSCI213+ CSCI222) or (CSCI213 +CSCI204) AND 12cp of 200 level subjects	BCS Core	Annual
	CSCI336	6	Computer Graphics	CSCI204 and 6cp 200 level CSCI subjects	MT core	Autumn
	DESN390	6	Experimental Digital Art	DESN290	MT core	Spring
	CSCI324	6	Human Computer Interface	CSCI204 and 6cp 200 level CSCI subjects	MT core	Autumn
	DESN310	6	2D Animation	DESN211	MT core	Spring
Choose 2 subjects from the list of electives for Computer Science Multimedia Technologies						

Bachelor of Computer Science (BCS) in Multimedia Technology degree electives (choose any 3)

Code	CP	Title	Pre-requisites	Semester
200 LEVEL				
CSCI205	6	Development Methods & Tools	CSCI124	Autumn
CSCI 213	6	Java programming and object oriented design	CSCI 124	Spring
DESN212	6	Advanced Web Design	DESN211	Autumn
300 LEVEL				
IACT 303	6	World Wide Networking	CSCI 102 or CSCI 213	Autumn
IACT 304	6	Principles of e-Business	12 CP of IACT or CSCI subjects	Spring
DESN311	6	Interactive Multimedia Design	DESN212	Spring
CSCIXX**	6	Internship	24cp @200 Level in CSCI subjects	Summer

** If Internship is taken as one of the Electives it must be completed during the Summer Session at either the end of the 3rd Year or at the end of the 4th Year of studies provided the pre-requisites have also been successfully completed.

Recommended degree planner for students starting at Autumn:

Year 1 Autumn	Year 1 Spring	Year 2 Autumn	Year 2 Spring	Year3 Autumn	Year 3 Spring	Year 4 Autumn	Year 4 Spring
MATH015	ARTS035 or MATH020	LAW101	MATH121	CSCI204	CSCI203	CSCI321*	CSCI321
CSCI015	PSYC015	CSCI102 /ISIT102	STAT131	DESN211	CSCI222	CSCI336	DESN310
STAT015	ENVI030	CSCI131	IACT201	CSCI240	CSCI236	CSCI324	Elective
CSCI103	CSCI114	CSCI124	DESN290	CSCI235	DESN390	Elective	Elective
ARTS015	ARTS017						

Recommended degree planner for students starting at Spring:

Year 1 Spring	Year 1 Autumn	Year 2 Spring	Year 2 Autumn	Year3 Spring	Year 3 Autumn	Year 4 Spring	Year 4 Autumn
MATH015	ARTS035 or MATH020	MATH121	IACT201	CSCI203	CSCI235	CSCI321	CSCI321
CSCI015	PSYC015	CSCI102 /ISIT102	CSCI204	CSCI222	DESN211	DESN310	CSCI336
STAT015	ENVI030	LAW101	STAT131	CSCI236	CSCI240	DESN390	CSCI324
CSCI103	CSCI114	CSCI124	CSCI131	DESN290	Elective	Elective	Elective
ARTS015	ARTS017						



UOWD

University of Wollongong in Dubai

Bachelor of Internet Science and Technology

The Bachelor of Internet Science and Technology (BIST) degree seeks to create professionals who can work in all the service areas provided by the Internet. The Internet has revolutionised the way business is conducted and has made a great contribution to the delivery of services in the fields of information, education and entertainment. This has led to tremendous public interest in the Internet, which is expected to become a major motivator for new software products, services and business reform over the next five to ten years. The BIST program prepares the graduates with the necessary knowledge and hands-on skills to conquer the market demands through extensive practical lab work and industry relations. Graduates of this degree can look forward to a variety of opportunities leading to worthwhile careers in the rapidly evolving IT industry

Course Requirements

Students are required to complete thirty four (34) subjects or at least 204 credit points (cp) by satisfactory completion of twenty three (23) core Internet Science and General Education subjects and eleven (11) electives from the approved elective list in the degree planner:

1. No more than 60 cp will count towards General Education (GEC).
2. In addition, at least 144 cp chosen from the approved academic degree planner
3. Should not do more than 66cp (11 subjects) at 100 level (This includes MGMT102 and LAW101)
4. At least 48cp (8 subjects) should be at 300 level
5. No more than a total of 24 credit points of subjects at 100 level or higher (i.e. 200 level and 300 level) should be at 'PC' grade
6. No PC at 300 level core subjects
7. Achieve an overall Weighted Average Mark (WAM) of 50% average at UOWD.

Degree Planner for Bachelor of Internet Science and Technology

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 1	ARTS015	6	Introduction to University Life	NA	General Education	Annual
	MATH015	6	Foundation Mathematics A	NA	General Education	Annual
	CSCI015	6	Computer Applications	NA	General Education	Annual
	STAT015	6	Introduction to Statistics	NA	General Education	Annual
	CSCI103	6	Algorithms and Problem Solving	NA	BCS Core	Annual
	ARTS017	6	Islamic Culture	NA	General Education	Annual
	CSCI114	6	Procedural Programming	CSCI015	BCS Core	Annual
	ENVI030	6	Environmental Studies	ARTS1015	General Education	Annual
Choose 2 subjects from the list of GEC electives						

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 2	CSCI124	6	Applied Programming	CSCI103 & CSCI114	BIST Core	Annual
	CSCI102 /ISIT102	6	Systems	CSCI015	BIST Core	Annual
	MGMT 110	6	Introduction to Management	ARTS 015	BIST Core	Annual
	ECTE 182	6	Internet technology 1	NA	BIST Core	Spring
	STAT131	6	Understanding Variation and Uncertainty	STAT015	BCS Core	Annual
	MARK 101	6	Marketing Principles	ARTS 015	BIST Core	Annual
	Choose 2 subject from the list of GEC electives					

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 3	ECTE 282	6	Internet Systems	ECTE 182	BIST Core	Autumn
	CSCI 213	6	Java Programming and Object Oriented Design	CSCI 124	BIST Core	Spring
	IACT201	6	Information Technology and Citizens Rights	24 credit points at 100 level	BIST Core	Annual
	INFO 202	6	Project	ECTE 182 and CSCI 124	BIST Core	Spring
	IACT 202	6	The Structure and Organization of Telecommunications	CSCI 102 or CSCI 114	BIST Core	Spring
	Choose 3 subjects from the list of electives for Internet Science and Technology					

YEAR	Subject Code	CP	Subject	Pre-Requisite	Requirement	Semester
Year 4	IACT 303	6	World-wide Networking	CSCI 102 or (CSCI 114 & CSCI 103)	BIST Core	Autumn
	MARK 301	6	Internet Application for Marketing	MARK 101	BIST Core	Autumn
	IACT 301	6	Information and communication security issues	IACT 201	BIST Core	Spring
	IACT304	6	Principles of e-Business	12 cp at 200 level in IACT or CSCI	BIST Core	Spring
	Choose 4 subjects from the list of electives for Computer Science					

GEC *- General Education Electives (Choose any 4)

It is advised not to take 5 subjects in the second semester. You may take only one of the GEC subjects in this session and the other one in a summer session.

Code	CP	Title	Pre-requisites	Semester
MATH020 <i>(recommended elective)</i>	6	Foundation Mathematics B	MATH015	Annual
ARTS 035	6	Introduction to Philosophy	None	Annual
PSYC 015	6	Introduction to Psychology	ARTS 015	Annual
LAW 101	6	Law, Business and Society	None	Annual
MGMT 102	6	Business Communication	ARTS 015	Annual

Degree electives (choose any 7)

Choose **seven** electives from the following list strictly of which

- Maximum of 1 subject at 100 level
- Minimum of 4 subjects at 300 level

Code	CP	Title	Pre-requisites	Semester
100 LEVEL (Maximum 1 subject)				
ACCY 100	6	Accounting 1A	ARTS 015	Annual
ECON 101	6	Macro economical Essentials for Business	ARTS 015	Annual
ECON 111	6	Introductory Microeconomics	ARTS 015	Annual
MATH 121	6	Discrete Mathematics	MATH 015	Annual
200 LEVEL				
BUSS 211 (ISIT100)	6	Requirements determination and system analysis	6 CP @ 100 level	Autumn
CSCI204	6	Object Programming & Frameworks	CSCI124	Autumn
CSCI 205	6	Development methods and Tools	CSCI 124	Autumn
CSCI235	6	Databases	CSCI124	Autumn
300 LEVEL (Minimum 4 subjects)				
BUSS 312	6	Business Data communications	6 CP of 200 level CSCI subjects	
COMM 351	6	Business ethics and governance	72 CP	Annual
CSCI311	6	Software Process Management	CSCI205	Autumn
CSCI 315	6	Database Design and Implementation	CSCI235	
CSCI 323	6	Artificial Intelligence	CSCI 204 & 6CP of 200 level CSCI subjects	Spring
CSCI 324	6	Human Computer Interaction	CSCI 204 & 6CP of 200 level CSCI subjects	Autumn
CSCI 336	6	Computer graphics	CSCI 204 & 6CP of 200 level CSCI subjects	Autumn
CSCI 399	6	Server Technology	CSCI213	Spring
IACT 305	6	eBusiness technologies	6 CP 200 level IACT or CSCI	Autumn
INFO303	12	Project (12 credits)	INFO202 & WAM > 70 in 200 level subjects	Annual
MARK 343	6	International Marketing	MARK 101	Autumn

Recommended degree planner for students starting at Autumn:

Year 1 Autumn	Year 1 Spring	Year 2 Autumn	Year 2 Spring	Year3 Autumn	Year 3 Spring	Year 4 Autumn	Year 4 Spring
MATH015	MATH020 <i>(recommended)</i>	GEC Elective	ECTE 182	ECTE 282	INFO 202	IACT 303	IACT 301
CSCI015	GEC Elective	CSCI102 /ISIT102	GEC Elective	IACT201	IACT 202	MARK 301	IACT304
STAT015	ENVI030	MGMT 110	STAT131	MARK 101	Elective	Elective	Elective
CSCI103	CSCI114	CSCI124	CSCI 213	Elective	Elective	Elective	Elective
ARTS015	ARTS017						

Recommended degree planner for students starting at Spring:

Year 1 Spring	Year 1 Autumn	Year 2 Spring	Year 2 Autumn	Year3 Spring	Year 3 Autumn	Year 4 Spring	Year 4 Autumn
MATH015	MATH020 <i>(recommended)</i>	GEC Elective	MGMT 110	INFO 202	ECTE 282	IACT 301	IACT 303
CSCI015	GEC Elective	CSCI102 /ISIT102	MARK 101	IACT 202	IACT201	IACT304	MARK 301
STAT015	ENVI030	ECTE 182	STAT131	CSCI 213	Elective	Elective	Elective
CSCI103	CSCI114	CSCI124	GEC Elective	Elective	Elective	Elective	Elective
ARTS015	ARTS017						



UOWD

University of Wollongong in Dubai

Bachelor of Information Technology In Management Information Systems (MIS)

The Bachelor of Information Technology in Management Information Systems program (MIS) is one of the most highly respected and popular programs nowadays. The MIS program is targeted towards meeting the demand for graduates capable of developing, implementing and managing large-scale information systems as well as articulating the economic value and the strategic role of Information Technology.

Objectives

The Bachelor of Information Technology -Management Information Systems program aims to:

- Equip students with the knowledge, skills, frameworks, methodologies and tools required to apply information technology, from a strategic and operational perspective, to create business efficiencies and competitive advantage.
- Provide students with multi-dimensional (technical and business) training and expertise in designing, developing, implementing and managing information systems in organizations;
- Enhance students' analytical, problem solving, decision-making and critical thinking skills for the purpose of understanding and solving business problems by using information technology effectively.
- Develop an understanding of core knowledge of key business concepts.
- Develop the ability to evaluate the strategic impact of information systems on organizational processes, profitability and decision-making effectiveness.
- Develop the skill to manage specifications, design and implement information systems and the development and maintenance of business information systems
- Develop the ability to select and apply appropriate technologies for the automation of business information systems.

Program Requirements

Students are required to complete the thirty four (34) subjects (204cps) according to the sequence of study outlined further below.

1. Ten (10) General Education Subjects
2. Twenty two (22) compulsory core subjects
3. Two (2) elective subjects to be selected from the approved subjects provided in each session.
4. No more than a total of 24 credit points of subjects at 100 level or higher (i.e. 200 level and 300 level) should be at 'PC' grade.
5. Achieve an overall Weighted Average Mark (WAM) of 50% average at UOWD.

Degree Planner for Bachelor of Information Technology (Management Information Systems)

Year 1

Autumn		Spring	
ARTS015	Introduction to University Life	ENVI030 or PSYC015 or ARTS035	Environmental Studies or Introduction to Psychology or Introduction to Philosophy
ARTS017	Islamic Culture	MATH020	Foundation Mathematics B
CSCI015	Computer Applications	CSCI102 (ISIT102)	Systems
MATH015	Foundation Mathematics A	MGMT102	Business communication
STAT015	Introduction to Statistics	LAW101	Law, Business and Society

Year 2

Autumn		Spring	
MARK101	Marketing Principles	STAT131	Understanding variations and uncertainty
BUSS211 (ISIT100)	Requirements Determination & System Analysis	ECON111	Introductory Microeconomics
BUSS111 (ISIT111)	Business Programming 1	ACCY102	Accounting 1B
ACCY100	Accounting 1A	BUSS214 (ISIT114)	Business Programming 2

Year 3

Autumn		Spring	
FIN221	Introductory Business Finance	IACT202 (ISIT105)	Structure & Organisation of Telecommunications
MGMT110	Introduction to Management	MGMT206	Managing Human Resources
ECTE182	Internet Technology 1	BUSS218 (ISIT218)	System Design and Architecture
BUSS212 (ISIT112)	Database Management Systems	BUSS311 (ISIT311)	Advanced Database Management Systems

Year 4

Autumn		Spring	
IACT201 (ISIT301)	Information Technology and Citizens' Rights	COMM351	Business Ethics & Governance
BUSS308 (ISIT208)	Computer Systems Management	MGMT314	Strategic Management
BUSS316 (ISIT316)	Information Systems Prototyping	BUSS318 (ISIT318)	Information Systems Project
ELECTIVE	See list below	ELECTIVE	See list below

DEGREE ELECTIVES – (choose any 2)

Code	Title	Pre-requisites
MARK301	Internet Applications for Marketing	MARK101
IACT 304	Principles of e-Business	12 CP of IACT or CSCI subjects
MGMT309	Supply Chain Management	MGMT110 and STAT131/COMM121
MGMT311	Management of Change	MGMT110
MGMT316	Operations Management	STAT131/COMM121 & ECON111

