FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCES

COMPUTER SCIENCE - Bahrain

Bachelor of Science with Honours in Computer Science - Bahrain Bachelor of Science in Computer Science - Bahrain Diploma of Higher Education in Computer Science - Bahrain

These regulations are to be read in conjunction with <u>General Academic Regulations – Undergraduate</u>, Integrated Master and Professional Graduate Degree Programme Level.

Mode of Study

1. The programme is available by full-time study only.

Place of Study

2. Students will study at the University of Strathclyde - Bahrain.

Curriculum

3. All students shall undertake an approved curriculum as follows:

First Year

All students shall undertake modules amounting to 125 credits delivered by Study Group Ltd. as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
HF103	Academic English Skills	1	30
MM152	Mathematics for Science and Engineering 1	1	15
MM153	Mathematics for Science and Engineering 2	1	15
XXXX	Lab Skills and Scientific Communication	1	5
CS126	Computing 1	1	15
CS127	Computing 2	1	15
MM151	Discrete Mathematics	1	15
	together with 15 credits chosen from the following		
CH118	Chemistry 1	1	15
PH186	Physics 1	1	15

Second Year

All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
CS283	Advanced Programming	2	20
CS282	Logic and Algorithms	2	20
CS281	User and Data Modelling	2	20
CS280	Computer Systems and Architecture	2	20
CS279	Professional Issues in Computing	2	10
CS278	Quantitative Methods for Computer Science	2	10
CS277	Functional Thinking	2	10
CS125	Technology in Business	1	10

Third Year

All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
CS376	Building Software Systems	3	20
CS374	Computer Systems and Concurrency	3	20
CS375	Foundations of Artificial Intelligence	3	20
CS377	Web Applications Development	3	20
CS373	Functional Programming	3	20
CS372	Mobile App Development	3	20

Fourth Year

All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
CS466	Individual Project	4	40
CS465	Computer Security	4	20

Students must take 60 credits of Optional Modules from the list below.

Optional Modules

Module Code	Module Title	Level	Credits
CS467	Software Architecture and Design	4	20
CS469	Advanced Functional Programming	4	20
CS471	Theory of Computation	4	20
CS468	Information Access and Mining	4	20
CS470	Human Centred Security	4	20

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run.

Such other Level 4 modules as may be approved by the Programme Director.

Progress

- 4. In order to progress to the second year of the programme, students are required to have passed all modules with a Credit Weighted Average of 60 by the second attempt and have passed HF103 Academic English Skills at 60 or above.
- 5. In order to progress to the third year of the programme in addition to satisfying the requirements of the <u>General Academic Regulations Undergraduate, Integrated Master and Professional Graduate Degree Programme Level with credits from the programme curriculum, students must also gain a non-compensated Pass for the module CS283 Advanced Programming.</u>
- 6. In order to progress to the fourth year of the programme, a student must satisfy the requirements of the <u>General Academic Regulations Undergraduate</u>, <u>Integrated Master and Professional Graduate Degree Programme Level with credits from the programme curriculum</u>.

Final Classification

7. The final classification for the degree of BSc with Honours in Computer Science - Bahrain will normally be based on the first assessed attempt at all modules taken at Levels 3 and 4.

Award Subject to the completion of additional national requirements

8. **BSc with Honours in Computer Science - Bahrain**: See <u>General Academic</u>
<u>Regulations – Undergraduate, Integrated Master and Professional Graduate Degree</u>
<u>Programme Level</u>, a candidate must have accumulated no fewer than 485 credits from the programme curriculum and must include the module CS466 Individual Project.

- 9. **BSc in Computer Science Bahrain**: See <u>General Academic Regulations Undergraduate, Integrated Master and Professional Graduate Degree Programme Level, and must include 100 credits at Level 3.</u>
- 10. **Diploma of Higher Education in Computer Science Bahrain:** See <u>General Academic Regulations Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.</u>