

COMSATS Institute of Information Technology
Registrar Office, Principal Seat, Islamabad

No: CIIT-Reg/Notif-~~667~~/12/991

July 3, 2012

NOTIFICATION

Scheme of Studies of Bachelor of Science (BS) in Biochemistry

It is hereby notified that the Academic Council in its 13th meeting held on June 04, 2012 approved the following scheme of studies of Bachelor of Science (BS) in Biochemistry program w.e.f Fall 2012 at CIIT system:

- | | |
|--|----------|
| 1. Minimum Duration: | 04 Years |
| 2. Minimum No. of Semesters: | 08 |
| 3. No. of Credit Hours in each Semester: | 12-19 |

4. Course Work	<u>Min No. of Courses</u>	<u>Min No. of Credit Hours</u>
i. Core Courses (List attached)	36	122
ii. Institutional Elective Courses (List attached)	03	12
Total No. of Courses of the Program:	39	
Total No. of Credit Hours of the Program:		134

Note:

The Regulations relating to Undergraduate Degree Programs approved by the Competent Authority and amended from time to time shall be applicable.

This issues with approval of the Competent Authority.


Nadeem Uddin Qureshi
Additional Registrar

Encl: (3 pages including this page)

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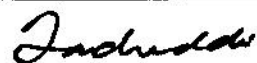
1. Dean Faculty of Science, CIIT.
2. Chairperson, Department of Biosciences, CIIT.
3. Incharge CIIT Islamabad Campus
4. All HoDs Department of Biosciences, CIIT, Campuses.
5. Controller of Examinations, CIIT.
6. Incharge Examinations, CIIT Campuses.

CC:

1. PS to Rector
2. PA to Registrar

List of Core Courses

Serial No.	Course Code	Course Title	Credit Hours	Prerequisites
1.	BCH200	Carbohydrates and Lipids	3(2, 1)	BCH 100
2.	BCH100	Introduction to Biochemistry	4(3, 1)	
3.	BCH201	Amino acids and Proteins	4(3, 1)	BCH100
4.	BCH300	Principles of Enzymology	2(2, 0)	
5.	BCH301	Gene Manipulation	3(2, 1)	
6.	BCH302	Clinical Biochemistry	4(3, 1)	
7.	BCH303	Bioenergetics	2(2, 0)	
8.	BCH304	Metabolism	3(3, 0)	
9.	BCH305	Nutritional Biochemistry	3(2, 1)	
10.	BCH306	Biomembranes and Cell Signaling	3(3, 0)	
11.	BCH307	Endocrinology	3(3, 0)	
12.	BCH400	Industrial Biochemistry	3(2, 1)	
13.	BCH401	Bionanotechnology	2(2, 0)	
14.	BCH402	Current trends in Biochemistry	2(2, 0)	
15.	BCH403	Internship/Project	12(0, 12)	
16.	BIO130	Cell Biology	4(3, 1)	
17.	BIO135	General Chemistry	4(3, 1)	
18.	BIO231	Fundamentals of Genetics	4(3, 1)	
19.	BIO232	General Physiology	3(3, 0)	
20.	BIO310	Introduction to Bioinformatics	4(3, 1)	
21.	BIO333	Statistical Methods in Biology	3(3, 0)	
22.	BIO345	Essential Techniques in Molecular Biology	3(0, 3)	
23.	BIO346	Introduction to Genomics and Proteomics	3(3, 0)	BSC205
24.	BIO405	Research Methodology and Bioethics	3(3, 0)	
25.	BSC205	Introduction to Molecular Biology	3(3, 0)	
26.	BSC253	Microbiology and Immunology	4(3, 1)	
27.	BSC302	Fundamentals of Biotechnology	3(3, 0)	BSC205
28.	BSC401	General Virology	3(3, 0)	BSC253
29.	CSC101	Introduction to computing	3(2, 1)	
30.	CSC141	Introduction to Computer Programming	4(3, 1)	
31.	HUM100	English Comprehension and Composition	3(3, 0)	
32.	HUM102	Report Writing Skills	3(3, 0)	HUM100
33.	HUM103	Communication Skills	3(3, 0)	HUM100
34.	HUM110	Islamic Studies	3(3, 0)	
35.	HUM111	Pakistan Studies	3(3, 0)	
36.	MTH100	Mathematics I	3(3, 0)	



List of Institutional Elective Courses

Serial No.	Course Code	Course Title	Cr.Hrs.	Pre-requisite
1.	ECO102	Economics	3(3, 0)	
2.	ECO200	Introduction to Development Economics	3(3, 0)	
3.	ECO300	Engineering Economics	3(3, 0)	
4.	HUM200	Business Communication Workshop	3(3, 0)	HUM100
5.	HUM202	Creative Thinking and Decision Making	3(3, 0)	
6.	HUM220	Introduction to Psychology	3(3, 0)	
7.	HUM221	International Relations	3(3, 0)	
8.	HUM223	Introduction to Philosophy	3(3, 0)	
9.	HUM310	Islamic History	3(3, 0)	
10.	HUM320	Introduction to Sociology	3(3, 0)	
11.	HUM430	French	3(3, 0)	
12.	HUM431	German	3(3, 0)	
13.	HUM432	Arabic	3(3, 0)	
14.	HUM433	Persian	3(3, 0)	
15.	LAW300	Corporate Law	3(3, 0)	
16.	MGT100	Introduction to Business	3(3, 0)	
17.	MGT101	Introduction to Management	3(3, 0)	
18.	MGT131	Financial Accounting	3(3, 0)	
19.	MGT403	Entrepreneurship	3(3, 0)	MGT101
20.	*MGT461	Project Management	3(3, 0)	
21.	MGT463	Productivity and Quality Management	3(3, 0)	MGT101
22.	MGT513	New Product Development	3(3, 0)	

*No pre requisite course is required for the institutional elective course "MGT461 Project Management" for students of Bachelor of Science in Biochemistry.

Induladeh.