

**COURSE CHECKLIST****PROGRAMME: BACHELOR OF SCIENCE IN BIOCHEMISTRY WITH HONOURS****University Courses (25 Credits)**

	Course Code	Course Name	Credit Hours	Status
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1	LPE2301	<i>Academic Interaction and Presentation</i>	3(2+1)	
2	LPE2501	<i>Academic Writing</i>	3(2+1)	
3	FCE3204	<i>Kemahiran Berfikir / Thinking Skills</i>	2(2+0)	
4	KOM3403	<i>Pengucapan Awam / Public Oration</i>	3(3+0)	
5	MGM3180	<i>Asas Keusahawanan / Basic Entrepreneurship</i>	3(2+1)	
6	PRT2009	<i>Pertanian dan Manusia / Agriculture and Man</i>	2(1+1)	
7	SKP2101	<i>Kenegaraan Malaysia / Malaysian Nationhood</i>	3(3+0)	
8	SKP3112	<i>Falsafah dan Isu Semasa / Philosophy and Current Issues</i>	2(2+0)	
9	SKP3122	<i>Penghayatan Etika dan Peradaban / Internalization of Ethics and Civilization</i>	2(2+0)	
10	XXX1234	<i>Ko-Kurikulum / Co-curriculum</i>	1(0+1)	
11	YYY1234	<i>Ko-Kurikulum / Co-curriculum</i>	1(0+1)	

**Core Courses (64 Credits)**

	Course Code	Course Name	Credit Hours	Status
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1	BCH3003	<i>Kimia Biologi / Biological Chemistry</i>	3(2+1)	
2	BCH3106	<i>Teknik dan Pengiraan Asas dalam Biokimia / Basic Techniques and Calculations in Biochemistry</i>	2(1+1)	
3	BCH3107	<i>Biomolekul / Biomolecules</i>	3(3+0)	
4	BCH3108	<i>Enzimologi / Enzymology</i>	4(3+1)	
5	BCH3109	<i>Metabolisme Karbohidrat / Carbohydrate Metabolism</i>	3(2+1)	
6	BCH3110	<i>Metabolisme Protein dan Asid Nukleik / Protein and Nucleic Acid Metabolism</i>	4(3+1)	
7	BCH3111	<i>Metabolisme Lipid dan Membran / Lipid Metabolism and Membranes</i>	4(3+1)	
8	BCH3203	<i>Analisis Biomolekul / Analysis of Biomolecules</i>	2(1+1)	
9	BCH4101	<i>Biokimia Hormon / Biochemistry of Hormones</i>	3(3+0)	
10	BCH4303	<i>Aplikasi Biokimia dalam Industri / Industrial Applications of Biochemistry</i>	3(3+0)	
11	BCH4901	<i>Latihan Industri / Industrial Training</i>	6(0+6)	

12	BCH4902	Topik Khas dalam Biokimia / <i>Current Topics in Biochemistry</i>	2(2+0)	
13	BCH4904	Pembelajaran Berasaskan Perkhidmatan Komuniti dalam Biokimia / <i>Service Learning in Biochemistry</i>	1(0+1)	
14	BCH4959	Disertasi Bachelo / <i>Bachelor Dissertation</i>	6(0+6)	
15	BGY3701	Biostatistik / <i>Biostatistics</i>	3(2+1)	
16	BMY3001	Mikrobiologi / <i>Microbiology</i>	4(4+0)	
17	BMY3201	Teknik Asas Mikrobiologi / <i>Basic Microbiology Techniques</i>	2(0+2)	
18	BSM3101	Biologi Sel dan Perkembangan / <i>Cellular and Developmental Biology</i>	3(3+0)	
19	BSM3201	Biologi Molekul / <i>Molecular Biology</i>	3(3+0)	
20	BSM4301	Bioinformatik / <i>Bioinformatics</i>	3(2+1)	

### Elective Courses (33 Credits)

	Code Course	Course Name	Credit Hours	Status
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<b>Pelajar perlu mengambil 21 kredit kursus Elektif Bidang Biokimia / Student must take 21 credits Elective courses (Biochemistry)</b>				
1	BCH4301	Biokimia Tumbuhan / <i>Plant Biochemistry</i>	3(3+0)	
2	BCH4302	Manipulasi Genetik Tumbuhan / <i>Plant Genetic Manipulation</i>	3(2+1)	
3	BCH4304	Biokimia Makanan / <i>Food Biochemistry</i>	3(3+0)	
4	BCH4305	Biokimia Pemakanan / <i>Nutritional Biochemistry</i>	3(3+0)	
5	BCH4306	Biokimia Tisu Haiwan / <i>Biochemistry of Animal Tissues</i>	3(3+0)	
6	BCH4307	Biokimia Alam Sekitar / <i>Environmental Biochemistry</i>	3(3+0)	
7	BCH4308	Teknik dalam Metabolomik / <i>Techniques in Metabolomics</i>	3(2+1)	
8	BMY4301	Bakteriologi / <i>Bacteriology</i>	3(3+0)	
9	BMY4302	Virologi / <i>Virology</i>	3(3+0)	
10	BMY4303	Mikologi / <i>Mycology</i>	3(3+0)	
11	BMY4304	Imunologi / <i>Immunology</i>	3(3+0)	
12	BMY4305	Ekologi Mikrob / <i>Microbial Ecology</i>	3(2+1)	
13	BMY4309	Mikrobiologi Makanan Gunaan / <i>Applied Food Microbiology</i>	3(3+0)	
14	BSM3202	Kejuruteraan Genetik / <i>Genetic Engineering</i>	4(3+1)	
15	BSM3204	Prinsip Genetik / <i>Principles of Genetics</i>	3(2+1)	
16	BSM3401	Kultur Sel dan Tisu Haiwan / <i>Animal Cell and Tissue Culture</i>	3(2+1)	

17	BSM3501	Kultur Sel dan Tisu Tumbuhan / <i>Plant Cell and Tissue Culture</i>	3(2+1)	
18	BSM4701	Bahan Nano dan Bioteknologi / <i>Nanomaterials and Biotechnology</i>	3(3+0)	
19	BTC3402	Pengurusan dan Penggunaan Sisa / <i>Waste Management and Utilization</i>	3(2+1)	
20	BTC4104	Bioteknologi Makanan / <i>Food Biotechnology</i>	3(2+1)	
21	BTC4205	Mikrobiologi Industri / <i>Industrial Microbiology</i>	3(2+1)	
<b>Elektif Pengurusan dan Kemanusiaan (6 kredit) / Management and Humanities Elective Course (6 credits)</b>				
1	ACT2111	Pengantar Perancangan dan Penggunaan Maklumat Kewangan / <i>Introduction to planning and use of financial information</i>	3(3+0)	
2	ACT3211	Pengurusan Kewangan / <i>Financial Management</i>	3(3+0)	
3	ECN3010	Prinsip Ekonomi / <i>Principles of Economics</i>	3(3+0)	
4	MGM3101	Prinsip Pengurusan / <i>Principles of Management</i>	3(3+0)	
5	MGM3113	Gelagat Organisasi / <i>Organizational Behavior</i>	3(3+0)	
6	MGM3211	Prinsip Pemasaran / <i>Principles of Marketing</i>	3(3+0)	
7	MGM4174	Pengurusan Perkhidmatan / <i>Services Management</i>	3(3+0)	
8	MGM4184	Pengurusan Perniagaan Kecil / <i>Small Business Management</i>	3(3+0)	
9	MGM4187	Pengurusan Usahaniaga Baharu / <i>New Venture Management</i>	3(3+0)	
10	SKM2300	Pengenalan Kepada Multimedia / <i>Introduction to Multimedia</i>	3(2+1)	
<b>Elektif Bebas (6 kredit) / Elective (6 credits)</b>				
1	LPA2101	Bahasa Arab Asas I / <i>Arabic I</i>	3(3+0)	
2	LPC2101	Bahasa Cina Asas I / <i>Chinese I</i>	3(3+0)	
3	LPD2101	Bahasa Jerman Asas I / <i>German I</i>	3(3+0)	
4	LPK2101	Bahasa Korea Asas I / <i>Korean I</i>	3(3+0)	
5	LPF2101	Bahasa Perancis Asas I / <i>French I</i>	3(3+0)	
6	LPJ2101	Bahasa Jepun Asas I / <i>Japanese I</i>	3(3+0)	
7		Elektif Bebas / <i>Elective</i>	3	