

**Struktur Program Biokimia (3 laluan) / Biochemistry Programme Structure (3 tracks)**

TAHUN	SEM	TERAS			CITRA UNIVERSITI			LALUAN			JUMLAH		
		Wajib Fakulti (WF)	Wajib Program (WP)	Wajib Major (WM)	Citra Wajib (CW)	Citra Dalam (CD)	Citra Luar (CL)	Keusahawanan (U)	Industri (I)	Keserjanaan (S)	U	I	S
1	I	LMCE1042/ LMCE1062/ LMCE1072/ LMCE1082	STBP1013 STBP1033	STKK1502		STPD2013(C1) (C1-C6)	LMCK1331(C2) LMCK1531(C4) (C1 – C6)				15 <sup>^</sup>		
	II	LMCE1052	STBP1023 STBP1043	STKK1112	LMCW1022	<sup>a</sup> STQS1313(C3) <sup>b</sup> STQS1913(C3)	LMCK1421(C3) LMCK1621(C1) (C1 – C6)				15/17 <sup>^</sup>		
2	I	LMCE1062/ LMCE2082/ LMCE2092/ LMCE2103	STBP2013 STBP2023 STBP2033 STBP2203		LMCW2163	(C1-C6)	LMCK2711(C5) LMCK2811(C6) (C1 – C6)				19/20 <sup>^</sup>		
	II		STBP2022 STBP2032	STBK2022 STBC2012 STAB2143	LMCW2173 LMCW2022	(C1-C6)	(C1 – C6)				16 <sup>^</sup>		
3	I	LMCE3051/ LMCE3061/ LMCE3071		STBK3322			(C1 – C6)	CMIE2013 •STBK3013	STBK3013 STBK3413	STBK2214 STBM2013 STBK3413 •STBK3013	6 <sup>^</sup>	9 <sup>^</sup>	13 <sup>^</sup>
	II			STBP3012 STBK3442 STBK3992				CMIE2023	•STBM3043	•STBC3022	9	6 <sup>^</sup>	6 <sup>^</sup>
	III							CMIE3033			3	-	-
4	I			STBK4996				•STBK4213 •STBG4013	STBK4213 •STBG4013 •STBM4023	•STBK4213	6 <sup>^</sup>	9 <sup>^</sup>	6 <sup>^</sup>
	II			STBK4889 (12 Kredit)							12		
JUMLAH PENUH		5 <sup>*</sup>	28	37	10	10	20	15	15	15/16	101	102	
		70 <sup>*</sup>			40			15/16			125 <sup>*</sup>	125/126 <sup>*</sup>	

**Petunjuk:**

- \* Bagi pelajar MUET 2 mengambil 7 kredit (tambahan 2 kredit). Sila rujuk Senarai Kursus Wajib Fakulti.
- ^ Bilangan unit tidak termasuk jumlah kredit Citra C1-C6 yang tidak dinyatakan kod kursus atau Kursus Pilihan
- Kursus Pilihan Mengikut Laluan

**Kursus Citra Universiti**

C1 – Minimum 4 kredit    C2 – Minimum 4 kredit    C3 – Minimum 2 kredit

C4 – Minimum 2 kredit    C5 – Minimum 2 kredit    C6 – Minimum 2 kredit

CD - Citra Dalam Fakulti – **MAKSIMUM 10 UNIT**CL - Citra Luar Fakulti – **MINIMUM 20 UNIT****SENARAI KURSUS/ LIST OF COURSES**

<b>Taraf</b>	<b>Kursus</b>	<b>Tajuk</b>	<b>Title</b>
Wajib Fakulti (WF)	LMCE1042	<i>Breakthrough English (MUET 2)</i>	
	LMCE1052	<i>Bridging English (MUET 2)</i>	
	LMCE1062	<i>Academic Interaction (MUET 2&amp;3)</i>	
	LMCE1072	<i>Academic Literacy (MUET 4)</i>	
	LMCE1082	<i>Page to Stage (MUET 5&amp;6)</i>	
	LMCE2082	<i>Pro-Talk English (MUET 3)</i>	
	LMCE2092	<i>Speak to Persuade (MUET 4)</i>	
	LMCE2103	<i>Advanced Communication Project (MUET 5&amp;6)</i>	
	LMCE3051	<i>Let's Get Talking (MUET 2)</i>	
Wajib Program (WP)	LMCE3061	<i>Corporate Storytelling (MUET 3)</i>	
	LMCE3071	<i>Professional Communication (MUET 4)</i>	
	STBP1013	Asas Biologi Molekul	<i>Fundamentals of Molecular Biology</i>
	STBP1023	Biologi Sel	<i>Cell Biology</i>
	STBP1033	Genetik Am	<i>General Genetics</i>
	STBP1043	Mikrobiologi Asas	<i>Fundamental Microbiology</i>
	STBP2013	Biokimia	<i>Biochemistry</i>
	STBP2022	Pengekspresan Gen	<i>Gene Expression</i>
	STBP2023	Teknologi DNA Rekombinan I	<i>Recombinant DNA Technology I</i>
	STBP2032	Genetik Mikrob	<i>Microbial Genetics</i>
STBP2033	Teknologi DNA Rekombinan II	<i>Recombinant DNA Technology II</i>	
STBP2203	Amali Biokimia I	<i>Practical Biochemistry I</i>	

Wajib Major (WM)	STAB2143	Analisis Statistik Biologi	<i>Statistical Analysis in Biology</i>
	STBC2012	Biologi Molekul Pengkomputeran	<i>Computational Biology Molecular</i>
	STBK2022	Biokimia Lanjutan	<i>Advanced Biochemistry</i>
	STBK3322	Biopengisyaratan	<i>Biosignalling</i>
	STBK3442	Komunikasi Saintifik	<i>Scientific Communication</i>
	STBK3992	Latihan Ilmiah I	<i>Research Project I</i>
	STBK4889	Latihan Industri	<i>Industrial Training</i>
	STBK4996	Latihan Ilmiah II	<i>Research Project II</i>
	STBP3012	Biologi Molekul	<i>Molecular Biology</i>
	STKK1112	Kimia Fizik I	<i>Physical Chemistry I</i>
STKK1502	Kimia Organik I	<i>Organic Chemistry I</i>	
Citra Wajib (CW)	LMCW1022	Asas Keusahawanan dan Inovasi	<i>Fundamentals of Entrepreneurship and Innovation</i>
	LMCW2022	Pengurusan dan Analitik Data	<i>Data Management and Analytic</i>
	LMCW2163	Tamadun Islam dan Tamadun Asia	<i>Islamic and Asian Civilization</i>
	LMCW2173	Hubungan Etnik	<i>Ethnic Relationships</i>
Citra Dalam (CD)	STPD2013	Sejarah dan Falsafah Sains (C1)	<i>History and Philosophy of Science (C1)</i>
	STQS1313	Pengatucaraan Komputer (C3)	<i>Computer Programming (C3)</i>
	STQS1913	Statistik Gunaan (C3)	<i>Applied Statistics (C3)</i>
Citra Luar (CL)	LMCK1331	Komunikasi Efektif (C2)	<i>Effective Communication (C2)</i>
	LMCK1421	Pemikiran Kritikal dan Penyelesaian Masalah (C3)	<i>Critical Thinking and Problem Solving (C3)</i>
	LMCK1531	Kepimpinan dan Kreativiti (C4)	<i>Leadership and Creativity (C4)</i>
	LMCK1621	Etika dan Profesional (C1)	<i>Ethics and Professionals(C1)</i>
	LMCK2711	Tanggungjawab Alam Sekitar (C5)	<i>Environmental Responsibility (C5)</i>
	LMCK2811	Sosial dan Kebertanggungjawaban (C6)	<i>Social and Responsibility (C6)</i>

Keusahawanan (U)	CMIE2013	Usahaniaga Asas I	<i>Junior Startup I</i>
	CMIE2023	Usahaniaga Asas II	<i>Junior Startup II</i>
	CMIE3033	Kajian Kes Keusahawanan	
	STBK3013 <sup>Ⓢ</sup>	Teknologi Enzim	<i>Enzyme Technology</i>
	STBK4213 <sup>Ⓢ</sup>	Biokimia dan Industri	<i>Biochemistry and Industry</i>
	STBG4013 <sup>Ⓢ</sup>	Aplikasi Genetik Dalam Industri	<i>Applications of Genetics in Industry</i>
Industri (I)	STBK3013	Teknologi Enzim	<i>Enzyme Technology</i>
	STBK3413	Biokimia Klinik	<i>Clinical Biochemistry</i>
	STBK4213	Biokimia Dan Industri	<i>Biochemistry and Industry</i>
	STBM3043 <sup>Ⓢ</sup>	Mikrobiologi Patogen Dan Diagnosis	<i>Diagnosis and Pathogenic Microbiology</i>
	STBG4013 <sup>Ⓢ</sup>	Aplikasi Genetik Dalam Industri	<i>Applications of Genetics in Industry</i>
	STBM4023 <sup>Ⓢ</sup>	Fermentasi Industri	<i>Industrial Fermentation</i>
Kesarjanaan (S)	STBC3022 <sup>Ⓢ</sup>	Genomik	<i>Genomics</i>
	STBK2214	Amali Biokimia Lanjutan	<i>Advanced Biochemistry Practical</i>
	STBK3013 <sup>Ⓢ</sup>	Teknologi Enzim	<i>Enzyme Technology</i>
	STBK3413	Biokimia Klinik	<i>Clinical Biochemistry</i>
	STBK4213 <sup>Ⓢ</sup>	Biokimia dan Industri	<i>Biochemistry and Industry</i>
	STBM2013	Imunologi	<i>Immunology</i>

<sup>Ⓢ</sup> Kursus Pilihan Mengikut Modul