

## GRADUATION CHECKLIST

To graduate, students must pass all the stated courses in this checklist. It is the responsibility of the students to ensure that all courses are taken and passed. Students who do not complete any of the course are not allowed to graduate.

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNT-ED (JKK)	TICK (✓) IF PASSED
<b>COMPUTER SCIENCE COURSES</b>					
<b>CORE COURSES (74 CREDITS)</b>					
1	SECI1013	Discrete Structure	3	3	
2	SECJ1013	Programming Technique I	3	3	
3	SECR1013	Digital Logic	3	3	
4	SCSP1513	Technology & Information System	3	3	
5	SECI1113	Computational Mathematics	3	3	
6	SCSI1143	Probability & Statistical Data Analysis	3	3	
7	SECJ1023	Programming Technique II	3	3	
8	SECR1033	Computer Organisation and Architecture	3	3	
9	SECD2523	Database	3	3	
10	SECD2613	System Analysis and Design	3	3	
11	SECJ2013	Data Structure and Algorithm	3	3	
	SECR2213	Network Communications	3	3	
12	SECV2113	Human Computer Interaction	3	3	
13	SECJ2203	Software Engineering	3	3	
14	SECV2223	Web Programming	3	3	
15	SECR2043	Operating Systems	3	3	
16	SECJ2154	Object Oriented Programming	4	4	
17	SECB3032	Bioinformatic Project I	2	2	
18	SECJ3203	Theory of Computer Science	3	3	
19	SECB4118	Industrial Training	8	HL	
20	SECB4114	Industrial Training Report	4	4	
21	SECB4134	Bioinformatic Project II	4	4	
22	SECD3761	Technopreneurship Seminar	1	1	
<b>ELECTIVES COURSES (34 CREDITS)</b>					
23	SECB3103	Bioinformatics I	3	3	
25	SECB3032	Bioinformatics II	3	3	
27	SECB3203	Programming for Bioinformatics	3	3	
28	SECB3213	Bioinformatic Database	3	3	
29	SECB3133	Computational Biology I	3	3	
30	SECB3223	Computational Biology II	3	3	

31	SECB4243	Special Topic in Bioinformatics	3	3	
32	SECB4213	Bioinformatics Visualization	3	3	
33	SECB4313	Bioinformatics Modeling and Simulation	3	3	
34	SECD2623	Database Programming	3	3	
35	SECJ3104	Applications Development	4	4	
36	SECJ3553	Artificial Intelligence	3	3	
37	SECJ3303	Internet Programming	3	3	
38	SEBB4173	Cellular and Molecular Biology for Bioinformatics	3	3	
40	SEBB4203	Proteins Biomolecules	3	3	
41	SEBB4193	Gene and Protein Technology	3	3	
<b>TOTAL CREDIT OF COMPUTER SCIENCE COURSES (a)</b>			<b>108</b>	<b>100</b>	
<b>UNIVERSITY GENERAL COURSES</b>					
<b>Kluster 1: Penghayatan Falsafah, Nilai &amp; Sejarah (Faculty of Social Sciences and Humanities)</b>					
<i>*International Student, choose ONE only</i>					
1	*UHIS1022	*Philosophy and Current Issues	2	2	
2	*UHMS1182	*Penghayatan Etika dan Peradaban	2	2	
3	UHLM1012	Malaysia Language for Communication ( <i>International Students only</i> )	2	2	
<b>Kluster 2: Kemahiran Insaniah (Soft Skills)</b>					
1	UHMT 1012	Graduate Success Attributes	2	2	
<b>Kluster 3: Perluasan Ilmu</b>					
1	UHIT2302	The Thought of Science and Technology	2	2	
2	UHMS1172	Malaysia Dynamic (Local Students)	2	2	
	UHAK 1022	Malaysian Studies 3 (International Students)			
<b>Kluster 4: Kurikulum Pembelajaran Servis</b>					
1	UKQXxxx2	Co-curriculum	2	2	
2	UKQT 3001	Extracurricular Experiential Learning	1	1	
<b>Kluster 5: Kemahiran Bahasa (Language Skill) (Language Academy, Faculty of Social Sciences and Humanities)</b>					
1	UHLB 1112	English Communication Skills	2	2	
2	UHLB 2122	Academic Communication Skills	2	2	
3	UHLB 3132	Professional Communication Skills	2	2	
4	UHL*1112	Elective of Foreign Language	2	2	
<b>Kluster 6: Keusahawanan (Entrepreneuership)</b>					

1	UHAK 1032	Introduction to Entrepreneurship	2	2	
<b>TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c)</b>			23	23	
<b>TOTAL CREDIT TO GRADUATE (a + b + c)</b>			131	123	
<b>OTHER COMPULSORY COURSES</b>					
<b>Professional Skills Certificate (PSC) (UTMSPACE/ School)</b>					
1	GLL 1001	How to Get Your Self Employed			
2	GLL 1029	ISO 9001:2008 Quality Management System Requirement			
3	GLL 1040	Occupational Safety, Health and Environment			
4	GLL 1041	How to Manage Your Personal Finance			
<b>Test of English Communication Skill (TECS) (Language Academy, Faculty of Social Sciences and Humanities)</b>					
1	TECS 1001	Oral Interaction			
2	TECS 1002	Writing			