Program Structure

General Education 30 Credits		**Specialization** 89 Credits								**Free Electives** 6 Credits
		Basic Sciences and Mathematics **Regular Program** 32 Credits **Cooperative Education Program** 36 Credits		**Required Courses** 31 Credits		**Required Electives** 7 Credits		**Electives** **Regular Program** 19 Credits **Cooperative Education Program** 15 Credits		
General Education	**12**	2301107 CALCULUS I	3	2300251 CON ISSUES BIOTECH	3	**Group 1**		2300301 COMP SKILL BIOINFO	3	Select any courses taught in English at Chulalongkorn University.
Social Science	3	2301108 CALCULUS II	3	2300252 PRIN BIO PROC ENG	3	2300361 INTRO MOL BIOTECH	3	2300363 TREND BIOTECH	2	
Humanities	3	2301286 PROB STAT	3	2300253 SCI ETHICS	1	2300362 BIO SEQ ANALYSIS	3	2300364 CLEAN BIOTECH	3	
Interdisciplinary	3	2302101 GEN CHEM I	3	2300351 BIOT PL ANI BREED	3	2305262 GEN GENETICS LAB	1	2300500 TECHNOPRENEURSHIP	3	
Science and Mathematics	3	2302102 GEN CHEM II	3	2300401 INT SCI PROJ	3			2303251 ANIM WELF BIOSEC	2	
		2302103 GEN CHEM LAB	1	2300492 TRAINING	0	**Group 2**		2303341 BIO DISEASE	3	
Language	**12**	2303101 GEN BIO I	3	2301172 COMP PROG LAB	1	2300261 IND ADMIN MANAG	1	2303425 FRONT ANI BIOTECH	3	
5503111 ENG COMM SCI I	3	2303102 GEN BIO LAB I	1	2302203 ORG CHEM LAB	1	2602313 MGT/ORGANIZATION	3	2303435 REGEN BIO	3	
5503122 ENG COMM SCI II	3	2304151 ESSENTIAL PHYSICS	3	2302271 ORG CHEM I	3	2605311 PRIN MKTG	3	2305354 HYDROPONICS	2	
5503213 COMM PRES SKIL SCI	3	2304197 PHYS LAB BIO	1	2302272 ORG CHEM II	3			2305355 HYDROPONICS LAB	1	
Course from the other languages that are not English or native language.	3	2305101 GEN BIO II	3	2305261 GEN GENETICS	3	**Group 3**		2305451 PLANT TIS CUL	3	
		2305102 GEN BIO LAB II	1	2310310 GEN BIOCHEM	3	2314335 PROC FOOD BIOT I	3	2305452 PLANT TIS CUL LAB	1	
		2300399 PROJECT PROPOSAL	1	2310360 GEN BIOCHEM LAB	1	2314336 PROC FOOD BIOT II	3	2305453 COM ORN PL PROD	3	
		2300490 SEMINAR	1	2312302 GENERAL MICROBIO	3	2314339 PROC FOOD BIOT LAB	1	2305481 PLANT BIOTECH	2	
Special Group	**6**							2305486 ECON MUSHROOM CULT	3	
2301170 COMP PROG	3	**Regular Program**						2308341 SCI COMM	3	
Course from the list of General Education courses except those in Science and Mathematics.	3	230499 SENIOR PROJECT	2					2308351 ENVIRONMENT SCI I	3	
		Co-op						2308359 ENVI SCI LAB I	1	
		2300498 CO-OP EDU	6					2308418 ENVI REMED TECH	3	
								2308419 PRIN BIODEG BIOREM	3	
								2308439 BIOPOLY ENVI	3	
								2309417 PRIN AQUACULTURE	3	
								2309419 MAR ALGAL CULTURE	3	
								2309519 FISH NUTRITION	3	
								2309522 BREED CUL AQUA ANI	3	
								2310451 GENOM ANAL BIOTECH	3	
								2310454 INTRO GENE ENG	1	
								2310506 BIOINFORMATICS I	3	
								2310555 GENE ENG LAB	2	
								2312515 MIC BIOT INDUS VIS	3	
								2312516 MODERN MICROB BIOT	3	
								2312517 MED MICRO BIOTECH	3	
								2312589 IMMUNOTECHNOLOGY	2	
								2314375 BIOL CHEM BIOT	3	
								2314434 IND MICRO	3	
								2314435 BIOT FOOD IND	2	
								2314572 FOOD PROD DESIGN	2	
								2314573 APPL FOOD MICRO	3	

Total Credits 125 Credits

June 24, 2026