

Double Major Programs: Molecular Biology and Genetics / Chemistry

	MBG			MBG - CHEM			CHEM - MBG			CHEM		
	Courses	Credits	ECTS	Courses	Credits	ECTS	Courses	Credits	ECTS	Courses	Credits	ECTS
First semester	BIO 101	3	5	BIO 101	3	5	CHEM 103	3	7	CHEM 103	3	7
	BIO 111	1	1	BIO 111	1	1	CHEM 107	3	4	CHEM 107	3	4
	CHEM 103	3	7	CHEM 103	3	7	MATH 101	4	6	MATH 101	4	6
	CHEM 109	1	2	CHEM 109	1	2	PHYS 101*	4	8	PHYS 101	4	8
	MATH 101	4	6	MATH 101	4	6	HSS/AE	3	5	HSS/AE	3	5
	PHYS 101*	4	8	PHYS 101*	4	8						
	16	29		16	29		17	30		17	30	
Second semester	BIO 102	3	5	BIO 102	3	5	CHEM 104	3	6	CHEM 104	3	6
	BIO 106	2	3	BIO 106	2	3	CHEM 108	4	5	CHEM 108	4	5
	CHEM 104	3	6	CHEM 104	3	6	MATH 102	4	6	MATH 102	4	6
	MATH 102	4	6	MATH 102	4	6	PHYS 130*	4	7	PHYS 130	4	7
	PHYS 130*	4	7	PHYS 130*	4	7	HSS/AE	3	6	HSS/AE	3	6
	HSS	3	4	HSS	3	4						
	19	31		19	31		18	30		18	30	
Third Semester	BIO 201	3	3	BIO 201	3	3	BIO 101	3	5	CHEM 201	4	5
	BIO203/MATH 344	3	5	BIO203/MATH 344	3	5	BIO 201	3	3	CHEM 203	2	4
	CHEM 203	2	4	CHEM 203	2	4	CHEM 201	4	5	CHEM 245	3	5
	CHEM 221	4	5	CHEM 221	4	5	CHEM 203	2	4	MATH 201	4	5
	PHYS 201*	4	6	PHYS 201*	4	6	CHEM 245	3	5	PHYS 201	4	6
	HIST105/HUM101*	3/4	5/6	HIST105/HUM101*	3/4	5/6	MATH 201	4	5	Computer Elect.***	3	3
	TK 221	2	3	TK 221	2-Jan	3	PHYS 201*	4	6	TK 221	2	3
		21/22	31/32		21/22	31/32	TK 221	2	3			
							25	36		22	31	
Fourth Seemester	BIO 252	3	6	BIO 252	3	6	BIO 102	3	5	CHEM 202	4	5
	Bio 254	3	6	BIO 254	3	6	BIO 252	3	6	CHEM 204	2	4
	MATH 201	4	5	CHEM 108	4	5	BIO 254	3	6	CHEM 242	3	4
	HIST106/HUM102*	0.75	0.8333	MATH 201	4	5	CHEM 202	4	5	CHEM 244	2	4
	Computer Elect.***	3	5	CHEM 202	4	5	CHEM 204	2	4	HSS	3	6
	TK 222	2	3	CHEM 204	2	4	CHEM 242	3	4	Unrest. Elect.	3	5
				HIST106/HUM102*	0.75	0.8333	CHEM 244	2	4	TK 222	2	3
				TK 222	2	3	HSS	3	6			
	18/19	30/31		25/26	39/40	TK 222	2	3		19	31	
							25	43				
Fifth Semester	BIO 301	4	6	BIO 301	4	6	BIO 301	4	6	CHEM 305	3	7
	BIO 331	3	6	BIO 331	3	6	BIO 333	3	6	CHEM 307	2	4
	BIO 333	3	6	BIO 333	3	6	CHEM 305	3	7	CHEM 331	3	6
	BIO 353	4	5	BIO 353	4	5	CHEM 307	2	4	CHEM 333	2	3
	BIO 355	3	4	BIO 355	3	4	CHEM 331	3	6	CHEM 351	4	7
	HTR 311	2	3	CHEM 245	3	5	CHEM 333	2	3	HTR 311	2	3
				Computer Elect.***	3	5	CHEM 351	4	7			
				HTR 311	2	3	Computer Elect.***	3	3			
	19	30		25	40	HTR 311	2	3		16	30	
							26	45				
Sixth Semester	BIO 302	4	6	BIO 302	4	6	BIO 302	4	6	CHEM 308	4	6
	BIO 308	1	2	BIO 308	1	2	CHEM 308	4	6	CHEM 352	4	6
	BIO 310	4	6	BIO 310	4	6	CHEM 352	4	6	CHEM 356	2	3
	BIO 322	1	2	BIO 322	1	2	CHEM 356	2	3	CHEM 363	3	6
	BIO 342	3	6	BIO 342	3	6	CHEM 363	3	6	HSS	3	6
	HSS	3	5	CHEM 242	3	4	HSS	3	6	HTR 312	2	3
	HTR 312	2	3	CHEM 244	2	4	HTR 312	2	3			
				HSS	3	5						
	18	30		23/26	38		22	36		18	30	
Seventh semester	BIO 403	1	2	BIO 403	1	2	BIO 353	4	5	CHEM 415	4	6
	BIO 407	2	3	BIO 407	2	3	BIO 355	3	4	CHEM 451	3	6
	BIO Elective	3	6	CHEM 351	4	7	BIO 331	3	6	CHEM Elective	3	6
	COMP/BIO Elective	3	7	BIO Elective	3	6	CHEM 451	3	6	Complementary Ele	3	6
	Unrest. Elective	3	6	COMP/BIO Elective	3	7	CHEM Elective	3	6	Unrest. Elective	3	6
	Unrest. Elective	3	6	Unrest. Elective	3	6	Unrest. Elective	3	6			
				HSS	3	5						
	15	30		19	36		19	33		16	30	
Eighth semester	BIO Elective	3	6	BIO Elective	3	6	BIO 310	4	6	CHEM 402	1	2
	BIO Elective	3	6	BIO Elective	3	6	CHEM 402	1	2	CHEM 442	4	6
	COMP/BIO Elective	3	7	CHEM 308	4	6	CHEM 442	4	6	CHEM 476	3	6
	Unrest. Elective	3	6	CHEM 352	4	6	CHEM/COMP Elect	3	5	CHEM/COMP Elect	3	5
	HSS	3	5	CHEM 356	2	3	HSS	3	5	CHEM Elective	3	6
				CHEM 442	4	4				HSS	3	5
	15	30		20	31		15	24		17	30	

TOTAL CREDITS: 141/143 : 241/243
OVERLOAD:

168/170 : 275/277
27/29

167 : 277
24

143 : 242