

Double Major Programs: Molecular Biology and Genetics / Mathematics

	MBG			MBG - MATH			MATH - MBG			MATH		
	Courses	Credits	ECTS	Courses	Credits	ECTS	Courses	Credits	ECTS	Courses	Credits	ECTS
	First semester	BIO 101 BIO 111 CHEM 103 CHEM 109 MATH 101 PHYS 101*	3 1 3 1 4 4	5 1 7 2 6 8	BIO 101 BIO 111 CHEM 103 CHEM 109 MATH 101 PHYS 101*	3 1 3 1 4 4	5 1 7 2 6 8	Unrest. Elective MATH 111 MATH 131 PHYS 101* HSS	3 4 4 4 3	4 8 6 8 3	MATH 131 MATH 111 PHYS 101* Unrest. Elective AE 111*/HSS	4 4 4 3 3
	16	29		16	29		18	29		18	29	
Second semester	BIO 102 BIO 106 CHEM 104 MATH 102 PHYS 130* HSS	3 2 3 4 4 3	5 3 6 6 7 4	BIO 102 BIO 106 CHEM 104 MATH 102 PHYS 130* HSS	3 2 3 4 4 3	5 3 6 6 7 4	HSS CMPE 150 MATH 162 MATH 132 PHYS 102*	3 3 4 4 4	4 5 6 8 8	MATH 132 MATH 162 PHYS 102* CMPE 150 AE 112*/HSS	4 4 4 3 3	8 6 8 5 4
	19	31		19	31		18	31		18	31	
Third Semester	BIO 201 BIO203/MATH 344 CHEM 203 CHEM 221 PHYS 201* HIST105/HUM101* TK 221	3 3 1 4 4 3/4 2	3 5 3 5 6 5/6 3	BIO 201 BIO203/MATH 344 CHEM 203 CHEM 221 PHYS 201* HIST105/HUM101* TK 221	3 3 1 4 4 3/4 2	3 5 3 5 6 5/6 3	BIO 101 BIO 201 MATH 201 MATH 231 PHIL 131 PHYS 201* TK 221	3 3 4 4 3 4 2	5 3 5 4 10 6 3	MATH 201 MATH 231 PHYS 201* PHIL 131 Unrest. Elective TK 221	4 4 4 3 3 2	5 4 6 10 3 3
	20/21	30/31		20/21	30/31		23	36		20	31	
Fourth Semester	BIO 252 Bio 254 MATH 201 Computer Elect. HIST105/HUM101* TK 222	3 3 4 3 3/4 2	6 6 5 5 5/6 3	BIO 252 BIO 254 MATH 201 MATH 202 MATH 232 HIST105/HUM101* TK 222	3 3 4 4 3 3/4 2	6 6 5 7 6 5/6 3	BIO 102 BIO 252 BIO 254 MATH 232 MATH 202 MATH 224 HSS TK 222	3 3 3 3 4 3 3 2	5 6 6 6 7 6 3 3	MATH 202 MATH 232 MATH 224 HSS Science Elect. TK 222	4 3 3 3 3 2	7 6 6 3 4 3
	18/19	30/31		22/23	38/39		24	42		18	29	
Fifth Semester	BIO 301 BIO 331 BIO 333 BIO 353 BIO 355 HTR 311	4 3 3 4 3 2	6 6 6 5 4 3	BIO 301 BIO 333 BIO 353 BIO 355 MATH 321 MATH 343 HTR 311	4 3 4 3 4 4 2	6 6 5 4 8 6 3	BIO 301 BIO 331 BIO 333 BIO 321 MATH 343 MATH 331 HTR 311	4 3 3 4 4 4 2	6 6 6 8 6 8 3	MATH 321 MATH 331 MATH 343 HSS HTR 311	4 4 4 3 2	8 8 6 5 3
	19	30		24	38		24	43		17	30	
Sixth Semester	BIO 302 BIO 308 BIO 310 BIO 322 BIO 342 HSS HTR 312	4 1 4 1 3 3 2	6 2 6 2 6 5 3	BIO 302 BIO 308 BIO 310 BIO 322 BIO 342 HSS MATH 322 HTR 312	4 1 4 1 3 3 4 2	6 2 6 2 6 6 8 3	BIO 310 HSS MATH 322 MATH 332 MATH 344 HTR 312	4 3 4 4 3 2	6 5 8 8 5 3	MATH 322 MATH 332 MATH 336 HSS HTR 312	4 4 4 3 2	8 8 6 5 3
	18	30		22	39		20	35		17	30	
Seventh semester	BIO 403 BIO 407 BIO Elective COMP/BIO Elective Unrest. Elective Unrest. Elective	1 2 3 3 3 3	2 3 6 7 6 6	BIO 331 BIO 403 BIO 407 BIO Elective MATH 331 MATH 431 Unrest. Elective	3 1 2 3 4 4 3	6 2 3 6 8 8 6	BIO 353 BIO 355 BIO 407 MATH Elective MATH Elective MATH 431 HSS	4 3 2 3 3 4 3	5 4 3 6 6 8 5	MATH 431 MATH Elective MATH Elective Unrest. Elective Science Elective	4 3/4 3 3 3	8 6 6 5 5
	15	30		20	39		22	37		16/17	30	
Eighth semester	BIO Elective BIO Elective COMP/BIO Elective Unrest. Elective HSS	3 3 3 3 3	6 6 7 6 5	BIO Elective BIO Elective MATH 332 MATH Elective HSS	3 3 4 3 3	6 6 8 6 6	BIO Elective MATH Elective MATH 336 MATH Elective MATH 480 HSS	3 3 4 3 2 3	6 6 6 6 4 5	MATH 480 MATH Elective MATH Elective MATH Elective Unrest. Elective HSS	2 3/4 3 3 3 3	4 6 6 6 5 3
	15	30		16	32		18	33		17/18	30	
TOTAL CREDITS:		140/142	240	159/161		273/275	167/169		286	0.986		240
OVERLOAD:				19/21			26/28					