

MBC Professional Division Curriculum (entering P1 Fall 2021 and after)

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Fifth Term					Pre &/Co Req
	MBC	3310	Medicinal Chemistry I	2	CHEM 2420
	MBC	3330	Techniques in Pharmaceutical and Medicinal Chemistry	2	
	MBC	3340	Techniques in Pharmaceutical and Medicinal Chemistry Laboratory	1	
	MBC	3550	Physiological Chemistry I	3	
	PHCL	3700	Pharmacology I	3	
			MBC Laboratory (Recommend MBC 3880) ¹	3	
			Major Elective ²	2	
				16	
Sixth Term					
	MBC	3100	Practices in Pharmaceutical Research	1	
	MBC	3320	Medicinal Chemistry II	3	MBC 3310, MBC 3550
	MBC	3560	Physiological Chemistry II	3	MBC 3550
	PHCL	3730	BSPS Pharmacology II	3	PHCL 3700
			MBC Laboratory (Recommend MBC 4870) ¹	3	
			Major Elective (Recommend MBC 3860) ²	2	
				15	
Seventh Term					
	MBC	4710	Targeted Drug Design ³	3	MBC 3320
			MBC Laboratory ¹ or Major Elective ²	13	
			Free electives, if necessary	2	
				18	
Eighth Term					
	MBC	4780	Internship in Med. & Biol. Chem ⁴	6 - 12	MBC 3320, MBC 3560
				6 - 12	

¹ The MBC major requires that 3 semester hours of laboratory instruction be taken at the 3000 level or higher in a course taught by the MBC Department. Completion of 3 semester hours of any of the following courses will satisfy this requirement: MBC 3880, MBC 4850, MBC 4870, MBC 4880, MBC 4900, MBC 4950, or MBC 4960

² A total of 20 hours of course work to be chosen from the MBC electives list.

³ MBC 4720, Advances in Drug Design, when offered, will also fulfill the requirement.

⁴ Internship can be taken in summer before P2 year

All requirements listed above must be fulfilled with a minimum of 120 semester hours required for graduation.

MBC Major Electives

A total of 20 hours of course work must be selected from the list of elective courses below. Other electives require approval of the MBC adviser

BIOL	3010	Molecular Genetics	3
BIOL	3020	Molecular Genetics - Lab	2
BIOL	3030	Cell Biology	3
BIOL	3040	Cell Biology Lab	2

BIOL	4010	Molecular Biology	3
BIOL	4030	Microbiology	3
BIOL	4050	Immunology	3
BIOL	4110	Human Genetics	3
BIOL	4330	Parasitology	3
CHEM	3310	Analytical Chemistry	2
CHEM	3360	Analytical Chemistry Lab	1
CHEM	3560	Biochemistry Chemistry Lab	2
CHEM	3610	Inorganic Chemistry	3
CHEM	3710	Physical Chemistry for the Biosciences I	3
CHEM	3720	Physical Chemistry for the Biosciences II	3
CHEM	3730	Physical Chemistry I	3
CHEM	3740	Physical Chemistry II	3
CHEM	3860	Advanced Laboratory I	3
CHEM	3870	Advanced Laboratory II	3
CHEM	4300	Instrumental Analysis	2
CHEM	4620	Inorganic Chemistry II	3
CHEM	4880	Advanced Laboratory III	2
CHEM	4980	Advanced Organic Chemistry	2
EEES	4150	Evolution	3
EEES	4300	Field Botany	3
EEES	4450	Hazardous Waste Management	3
EEES	4510	Environmental Microbiology	3
EEES	4800	Plant Physiological Ecology	4
MBC	3860	Microbiology for Pharmaceutical professionals	2
MBC	3880	Medicinal & Biological Chem Lab	3
MBC	4300	Chemotherapy and Immunotherapy	2
MBC	4400	Cannabis Science Plants Products	3
MBC	4470	Advanced Immunotherapeutics	2
MBC	4720	Advances in Drug Design	3
MBC	4850	Adv Immunology & Tissue Culture Lab	1 to 10
MBC	4870	Biomedical Chem Lab	1 to 10
MBC	4880	Medicinal Biotech Lab	1 to 10
MBC	4900	Hnrs Seminar in Medic/Bio Chem	1 to 3
MBC	4910	Problems in Bio-medicinal Chem	1 to 3
MBC	4950	Research in Medicinal Chemistry	3 to 8
MBC	4960	Hnrs Thesis in Medicinal Chem	1 to 5
MBC	4980	Special Topics in Drug Design	1 to 4
PHCL	4140	Interpretation of Pharmaceutical Data	3
PHCL	4400	Cannabis Science – Risks & Benefits	3
PHCL	4730	Toxicology I	3
PHCL	4750	Toxicology II	3
PHCL	4760	Toxicokinetics	3
PHCL	4810	BSPS Pharmacology III	3
PHCL	4820	BSPS Pharmacology IV	3