

**ALBANY COLLEGE OF PHARMACY
AND HEALTH SCIENCES**

BS Microbiology/MS Molecular Biosciences Dual Degree Program

This dual degree program allows students to obtain a B.S. in Microbiology and an M.S. in Molecular Biosciences in five years (as opposed to six). The addition of the master's degree in Molecular Biosciences will provide students with a stronger foundation in research, giving them a competitive advantage whether they choose to pursue employment opportunities immediately following graduation or decide to continue their education in a Ph.D. or professional program.

For more information about the new B.S. in Microbiology / M.S. in Molecular Biosciences program, please view the sample curricular grid (attached) or contact Associate Professor Meenakshi Malik at 694-7168 or Meenakshi.Malik@acphs.edu.

BS MICROBIOLOGY WITH MS MOLECULAR BIOSCIENCES – DUAL DEGREE SAMPLE SCHEDULE

Year 1					
Fall Semester			Spring Semester		
		Credits			Credits
BIO 101	General Biology I	4	BIO 102	General Biology II	4
CHE 101	General Chemistry I	4	CHE 102	General Chemistry II	4
HUM 101	The Pre-Modern World	3	HUM 102	The Modern World	3
MAT 121	Calculus I	4	COM 115	Principles of Communication	3
				Elective 1	3
	Total	15		Total	17

Year 2					
Fall Semester			Spring Semester		
		Credits			Credits
CHE 201	Organic Chemistry I	4	CHE 202	Organic Chemistry II	4
PHY 212	College Physics I	4	PHY 222	College Physics II	4
HUM 201	The Contemporary World	3	MAT 145	Elementary Statistics	3
BIO 210	Microbiology	4	BIO 240	Virology (Req'd Track 1)	3
CHE 253	Scientific Communications	2		Elective 2	3
	Total	17		Total	17

Year 3					
Fall Semester			Spring Semester		
		Credits			Credits
PSC 311	Biochemistry	3	BIO 365	Medical Mycology & Parasitology	3
PSC 315	Immunology	3	BIO 340	Microbial Genetics	3
BIO 370	Microbial Physiology	3	BIO 355	Biomedical Lab Techniques II	3
BIO 350	Biomedical Lab Techniques I	3	BIO 235	Cell Biology (Req'd, Track 2)	3
	Elective 3	3		Elective 4	3
	Total	15		Total	15

Year 4					
Fall Semester			Spring Semester		
		Credits			Credits
BIO 480	Micro. Capstone Experience I	3	BIO 485	Micro. Capstone Experience II	3
MAT 610G	Stat. Inference and Modeling	3	BHS 655G	Research Design	2
BIO 660G	Journal Club	1	BIO 660G	Journal Club	1
BIO 625G	Track Elective I (Advanced Molecular Biology)	3	BIO 630G	Track Elective II (Advanced Cell Biology)	3
BIO 670G	Research Rotation	2		Elective 7	3
	Elective 5	3	BIO 645G	Bacterial Pathogenesis (req'd Track 3)	3
	Elective 6	3			
	Total	18		Total	15

Year 5					
Fall Semester			Spring Semester		
		Credits			Credits
PSC 671G	Ethics in Research	1		Graduate Elective IV	3
	Graduate Elective II	3	BIO 702G	Thesis Research	3
	Graduate Elective III	3			
BIO 660G	Journal Club	1			
BIO 701G	Thesis Research	3			
	Total	11		Total	6