

BIOLOGICAL SCIENCES ADVANCED PROGRAM

Grade of C or better required in each course

MICROBIOLOGY 0404D FALL 2004

27 minimum required credits

1. Required courses 6 credits

Sem	Gr	Cr	
		3	BCHM461 Biochemistry I and
		3	BCHM462 Biochemistry II
			OR
		3	BCHM463 Biochemistry of Physiology and
		3	BCHM465 Biochemistry III

2. MICB Area courses 18 credits

- Credits required in categories as indicated below. Must include TWO 300 or 400 level laboratory courses
- Lab courses offered as separate credit from lecture must be taken with lecture as co- or pre-requisite

Sem	Gr	Cr		Sem	Gr	Cr	
Genetics, Molecular Biology minimum 3 credits				Integrative Courses			
Courses that may be applied to the major but are not required							
		3	BSCI410 Molecular Genetics			4	BSCI380 Bioinformatics Lab
		4	BSCI412 Microbial Genetics Lab			2	BSCI427 Principles of Microscopy
		3	BSCI414 Recombinant DNA Lab			3	BIOM 301 Biometrics
Cell Biology/Physiology Courses minimum 3 credits						3	NRSC422 Soil Microbiology
		4	BSCI230 Cell Biology & Physiology*			2	NFSC430 Food Microbiology
		3	BSCI417 Microbial Pathogenesis			3	STAT400 Applied Probability & Stat.
		3	BSCI443 Microbial Physiology			3	STAT464 Introduction to Biostatistics
		3	BSCI464 Microbial Ecology				
Host/Parasite Interactions minimum 6 credits						var	Special Topics Courses**
		3	BSCI422 Principles of Immunology				BSCI328 Special Topics ENTM Dept.
		2	BSCI423 Immunology Lab				BSCI338 Special Topics BIOL Dept.
		4	BSCI424 Pathogenic Microbiology Lab				BSCI348 Special Topics CBMG Dept.
		3	BSCI425 Epidemiology			1	Departmental Honors Seminars***
		3	BSCI437 General Virology				BSCI378H
							BSCI398H

Total MICB Area credits _____

*BSCI 230 is a four credit lab course but does not count as an upper level lab

**Special Topics courses are allowed if specifically approved for MICB

*** One credit of Honors seminar may be applied to major requirements. Additional Honors seminar credits count as electives.

3. Enrichment

Enrichment Course: _____

Minimum 3 credits from any 300 or 400 level BSCI, CHEM, or BCHM course. Courses listed above can be used if they are not used to satisfy any category above. Independent study or research credits are acceptable. BSCI379, BSCI389, BSCI399. A 300 or 400 level course in GEOL, GEOG, NRMT, ANSC, or other departments may be used with permission of advisor.

Total credits in Advanced Program: _____