

NAME: _____ ID#: _____

IN EFFECT FALL 2016

**MICROBIAL, CELLULAR & MOLECULAR BIOLOGY (MCMB)
MICROBIOLOGY OPTION**

FRESHMAN YEAR

ENGL 1100 English Comp I	3	ENGL 1120 English Comp II	3
MATH 1610 Calculus I	4	MATH 1620 Calculus II	4
CHEM 1030 Fund. of Chemistry I	3	CHEM 1040 Fund of Chemistry II	3
CHEM 1031 Chem Lab	1	CHEM 1041 Chem II Lab	1
BIOL 1020/1021 Principles of Biology	4	BIOL 1030/1031 Organismal Biology	4
	15		15

SOPHOMORE YEAR

CHEM 2070 Organic Chem I	3	CHEM 2080 Organic Chem	3
CHEM 2071 Organic Lab	1	CHEM 2081 Organic Lab	1
PHYS 1500 Physics I	4	PHYS 1510 Physics II	4
BIOL 3000 Genetics	4	BIOL 3200 General Microbiology	4
CORE LITERATURE	3	CORE HISTORY	3
	15		15

JUNIOR YEAR

BCHE 5180 Biochemistry I	3	BCHE 5190 Biochemistry II	3
BCHE 5181 Biochemistry I Lab	1	MMCB Elective ⁴	2
BIOL 5200 Clinical Micro	5	BIOL 4100 Cell Biology	3
BIOL 5260 Prokaryotic Mol. Gene.	3	CORE FINE ARTS	3
CORE HISTORY or LIT ¹	3	CORE SOCIAL SCIENCES ²	3
	15	Free Elective	2
			16

SENIOR YEAR

BIOL 5250 Micro. Evo. & Diversity	4	BIOL 5210 Microb. Phys.	3
BIOL 5521 Recombinant DNA Lab	2	MMCB Elective ⁴	4
BIOL Elective	4	BIOL Elective ⁴	4
CORE SOC SCI or HUM ³	3	CORE SOCIAL SCIENCES ²	3
CORE HUMANITIES	3	BIOL 4950 Undergrad. Seminar	1
	16		15

TOTAL HOURS 122

Long range schedules for COSAM courses are online at www.auburn.edu/cosam/students/

Courses in **BOLD** will be used to calculate GPA in major.

Options for courses labeled CORE are in the Auburn University Bulletin (www.auburn.edu/bulletin) under Core Curriculum.

¹ Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.

² Students who have AP or transfer credit for US History should talk to an advisor about CORE SOC SCI choices.

³ If a LIT sequence is chosen, this course must be a CORE SOC SCI. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.

⁴ Approved courses are on the back of this sheet.

Microbial, Cellular and Molecular Biology (MCMB/MCCM) ELECTIVES

Micro/Mol/Cell Biol (MMCB) Electives:

BIOL 3020 Genomic Biology	4
BIOL 4100** Cell Biology Lab	2
BIOL 5190 Cell and Mol. Signal Trans.	3
BIOL 5200* Clinical Microbiology	5
BIOL 5260* Prokaryotic Mol. Genetics	3
BIOL 5270 Host-Microbe Interactions	3
BIOL 5210* Microbial Physiology	3
BIOL 5220 Intro. To Mol. Genetics	3
BIOL 5521 Recombinant DNA Lab	2
BIOL 5230 Virology	3

BIOL 5700 Appl. Env. Micro	4
BCHE 5250 Plant Metabolism	3
Pathways	

BIOL 5320 Plant Gene Expression	4
BIOL 5330 Developmental Genetics	3
BIOL 5660 Food Microbiology	5
BIOL 5500 Immunology	3
BIOL 5501 Immunology Lab	2
AGRN 5060 Soil Microbiology	4

Biology Electives

BIOL 4920 Internship in Biology	variable
BIOL 4970 Special Topics	variable
BIOL 4980 Undergrad Research (6 hr max)	variable
Any other BIOL course listed on this page	

Physiology Electives:

BIOL 5210* Microbial Physiology	3
BIOL 5240 Animal Physiology	4
BIOL 5600 Biomedical Physiology	5
BIOL 5130 Advanced Plant Physiology	3
BIOL 5131 Advanced Plant Phys. Lab	1

Evolution Electives

BIOL 3030 Evolution & Systematics	3
BIOL 5250* Microbial Evolution & Diversity	4

Biodiversity Electives:

BIOL 5110 Parasitology	4
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BIOL 3060 Ecology	4
BIOL 3040 Biology of Marine Systems	3
BIOL 3100 Plant Biology	4

BIOL 4010 Invertebrate Biodiversity	4
BIOL 4020 Vertebrate Biodiversity	4
BIOL 5250* Microbial Evolution & Div.	4
BIOL 5650 Ethology	4
ENTM 3040 General Entomology	4
ENTM 5010 Ent. for Educators	4
PLPA 5200 Introductory Mycology	4

***Required in Microbiology Option**

****Required in Cellular/Molecular Option**