NAME: _____ ID#:_____

IN EFFECT FALL 2016

MICROBIAL, CELLULAR, & MOLECULAR BIOLOGY (MICROBIOLOGY OPTION)
PRE-VETERINARY TRACK (MCMB, PVET)

FRESHMAN YEAR

ENGL 1100 English Comp I	3	ENGL 1120 English Comp II	3
MATH 1610 Calculus I	4	CORE HISTORY	3
CHEM 1030 Fund of Chem I	3	CHEM 1040 Fund of Chem II	3
CHEM 1031 Chem I Lab	1	CHEM 1041 Chem II Lab	1
BIOL 1020/1021 Principles of Biol	4	BIOL 1030/1031 Organismal Biol	4
	15		14

SOPHOMORE YEAR

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

JUNIOR YEAR

BIOL 5200 Clin Micro	**5**	**BIOL 4100 Cell Biology**	**3**
BIOL 4950 Undergrad Seminar	**1**	ANSC 3400 Animal Nutrition	4
BCHE 5180 Biochemistry I	3	CORE FINE ARTS	3
BCHE 5181 Biochemistry Lab I	1	CORE SOCIAL SCIENCE[2]	3
CORE SOCIAL SCIENCE[2]	3	CORE HUMANITIES	3
CORE SOCIAL SCIENCE or HUM[3]	3		
	16		16

Students who complete the above 6 semesters and successfully complete the first year of veterinary school may be awarded a B.S. in Microbiology. In the event that the first year Veterinary College alternative is not followed, the indicated senior year courses must be successfully completed to receive the B.S. in Microbiology.

SENIOR YEAR

BIOL 5500 Immunology	**3**	**MMCB Electives[4]**	**4**
MMCB Electives[4]	**3**	**Biology Elective[4]**	**4**
BIOL 5250 Micro Evo. & Diversity	**4**	**BIOL 5210 Microbial Phys**	**3**
BIOL 5260 or BIOL 5220	**3**	**BIOL 5501 Immunology Lab**	**2**
BCHE 5190 Biochemistry II	3		
	16		13

TOTAL HOURS 120

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 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 Pathways	3
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

*** Required in Microbiology Option**

Evolution Electives

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

***Required in Microbiology Option**

Biodiversity Electives:

BIOL 5110 Parasitology	4
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 & Diversity	4
BIOL 5650 Ethology	4
ENTM 3040 General Entomology	4
ENTM 5010 Ent. for Educators	4
PLPA 5200 Introductory Mycology	4