

NAME _____ ID# _____ Career Interest _____

MICROBIOLOGY CORE COURSES

BIOL 198 Principles of Biology (4)
BIOL 450 Modern Genetics (4)
BIOL 455 General Microbiology (4)
BIOL 541 Cell Biology (3)

OPTIONS (Complete option A and/or B)**A. General microbiology option**

Choose	BIOL 520 Evolution (3)
one:	BIOL 521 Evolution of Infectious Diseases (3) S
	BIOL 675 Genetics of Microorganisms (3) F
	BIOL 687 Microbial Ecology (3) S
	*11 credits from the Microbiology Major Electives list, including at least 5 credits of labs.

B. Medical microbiology option

	BIOL 670 Immunology (4) S
Choose	BIOL 530 Pathogenic Microbiology (3) F
two:	BIOL 545 Human Parasitology (3) S
	BIOL 675 Genetics of Microorganisms (3) F
	BIOL 730 General Virology (3) S
	*10 credits from the Microbiology Major Electives list, including at least 5 credits of labs.

***Classes required under each option total 20 credits. For each option, classes applied to the specific option requirements and those chosen from the major elective list must be different classes.**

MICROBIOLOGY MAJOR ELECTIVES

Completed Credits		Course	Total Credit	Lab Credit
Total	Lab			
		AGRON 645 Soil Microbiology F	3	
		AGRON 646 Soil Microbiology Lab F	1	1
		BIOL 365 Practicum in Biology	2	
		BIOL 410 Biology Cancer Cell F	2	
		BIOL 441 Human Body 1	4	1
		BIOL 461 Phage Hunters 1 F	3	2
		BIOL 462 Phage Hunters 2 S	2	
		BIOL 495/697 Topics in Biology	1-3	
		BIOL 520 Evolution	3	
		BIOL 521 Evol. of Infectious Diseases S	3	
		BIOL 530 Pathogenic Micro F	3	1
		BIOL 545 Human Parasitology S	3	
		BIOL 546 Human Parasitology Lab S	1	1
		BIOL 580 Molec Biol Genes & Genom S	3	
		BIOL 604 Biology of the Fungi F	3	1
		BIOL 609 Cell/Mol Biol Hum Disease F	3	
		BIOL 670 Immunology S	4	
		BIOL 671 Immunology Lab S	2	2
		BIOL 675 Genetics of Microorganisms F	3	
		BIOL 676 Molecular Genetics Lab F	3	3
		BIOL 687 Microbial Ecology S	3	
		BIOL 695 Internship in Biology	1-3	1-3
		BIOL 698 Research in Biology	1-3	1-3
		BIOL 705 Eukaryotic Genetics F	3	
		BIOL 707 Advanced Cell Biology F	3	
		BIOL 730 General Virology S	3	
		BIOL 734 Intro to Genom & Bioinform S	3	
		FDSCI 600 Food Microbiology	2	
		FDSCI 601 Food Microbiol Lab	2	2

Up to 5 credit hours from the following list can be applied to the Microbiology Major Electives requirement:

Completed Credits		Course	Total Credit	Lab Credit
Total	Lab			
		ASI 540 Princ. Animal Disease Control S	3	
		BIOCH 522 Gen. Biochemistry Lab	3	3
		BIOCH 571 Medical Biochemistry F	3	
		BIOCH 756 Biochemistry 1 Lab F	2	2
		BIOCH 766 Recombinant DNA Lab 1 S	1	1
		BIOCH 767 Recombinant DNA Lab II S	1	1
		BIOCH 775 Molecular Biophysics S	3	
		DMP 705 Princ. Veterinary Immunol. S	2	
		DMP 708 - Veterinary Epidemiology S	2	
		DMP 754 - Intro to Epidemiology F	3	
		DMP 770 Emerging Dis. Sum. intersec.	3	
		PLPTH 500 Princ. Plant Pathology S	3	1
		PLPTH 585 Crop Diseases F	2	1
		PLPTH 610 Biotechnology F	3	

Note: F=offered fall only; S=spring only; E=even-numbered years; O=odd years. No indication=offered fall and spring.

Additional degree requirements on back

ARTS & SCIENCES BASIC REQUIREMENTS

- _____ ENGL 100 Expository Writing 1 (3)
- _____ ENGL 200 Expository Writing 2 (3)
- _____ COMM 105 or 106 Public Speaking 1 or 1A (2-3)

Humanities (4 courses, 11 cr. hrs. minimum. May not overlap with social science courses. Only courses taken for 2 or more credit hours satisfy these requirements. B.S. students may use 2 courses in one modern language to fulfill western heritage/literary arts requirements; B.A. students may not.)

- Fine Arts _____
- Philosophy _____
- Western Heritage _____
- Literary Arts _____

Social Sciences (4 courses, 12 cr. hrs. minimum, from at least 3 social science depts. One course must be upper level, i.e., have prerequisite in same dept. or 500 level or above. Taking both ECON 110 & 120 will also fulfill upper level req. Social science courses may not overlap with humanities courses.)

- _____
- _____
- _____

Upper Level:

U.S. Multicultural Overlay (May overlap with humanities/social science courses.)

- _____

International Overlay (May overlap with humanities/social science courses. May use 4th course in a single foreign language, other than Latin.)

MAJOR COURSES Offered by Other Departments

Mathematics/Statistics/Computing & Info Sciences

- _____ MATH 220 Calculus I (4)
- _____ One of: STAT 325, 340, 701, 703; MATH 221, 551, 615 (S); CIS 111, 200 (Cr. 3-4)

Physics

- _____ PHYS 113 General Physics 1 (4)
- _____ PHYS 114 General Physics 2 (4)

Chemistry

- _____ CHM 210 Chem 1 (4)
- _____ CHM 230 Chem 2 (4)
- _____ *Choose CHM 350 General Organic Chem (3)
- _____ CHM 351 General Organic Chem Lab (2)
- _____ one **OR**
- _____ set: CHM 531 Organic Chem 1 (3)
- _____ CHM 532 Organic Chem Lab (2)
- _____ CHM 550 Organic Chem 2 (3)
- _____ BIOCH 521 General Biochemistry (3)

*Students planning to apply to medical, dental or pharmacy programs or graduate school should take CHM 531, CHM 532 and CHM 550 in place of CHM 350 and CHM 351.

K-STATE 8 REQUIREMENTS

One course may fulfill more than one area, and courses required in a student's major may fulfill these requirements. A minimum of four different course prefixes (e.g., AGECE, MATH, FSHS) must be represented. For more information on the K-State 8, go to <http://www.k-state.edu/kstate8/>.



Aesthetic Experience & Interpretive Understanding



Empirical and Quantitative Reasoning

BIOL 198 Principles of Biology



Ethical Reasoning and Responsibility



Global Issues and Perspectives



Historical Perspectives



Human Diversity within the U.S.



Natural and Physical Sciences

BIOL 198 Principles of Biology



Social Sciences

Only Students Completing B.A.

Complete requirements for the B.S. plus 4 courses in a foreign language sequence.

Course Record Sheet

FALL

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SPRING

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SUMMER

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FALL

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