B.S. in MICROBIOLOGY

MAJOR REQUIREMENTS

PRESCRIBED COURSES-C OR HIGHER

- □ CHEM 110, 3 units
- □ CHEM 111, 1 unit
- □ CHEM 112, 3 units
- □ MATH 140, 4 units

A “C” or better is required in 2 of of the following 3 courses. All 3 courses required:

- □ BMB/MICRB 251, 3 units
- □ BMB/MICRB 252, 3 units
- □ MICRB 201, 3 units

PRESCRIBED COURSES

- □ BIOL 322 or 222, 3 units
- □ CHEM 212, 3 units
- □ CHEM 213, 2 units

- □ BMB 400, 2 units
- □ BMB 401, 3 units
- □ BMB 402, 3 units
- □ BMB 428, 3 units
- □ BMB 442, 3 units
- □ CHEM 113, 1 unit
- □ CHEM 210, 3 units

A student enrolled in this major must receive a grade of “C” or better in the courses listed in this category specified by Senate Policy 82-44.

Students MAY NOT fulfill this requirement with remedial courses (including but not limited to examples such as: LL ED 5 and 10; ENGL 4, 5, and 6; ESL 4 and 5; CHEM courses below CHEM 110; MATH courses below MATH 110; STAT 100; PHYS courses below PHYS 211; and the like).

Minimum overall GPA requirement for graduation must be > 2.0. Total units earned (less repeats and remedial) must equal 125 to graduate. At least 36 of the last 60 units must be completed at the university, and the last 60 units within the past 5 calendar years.

Students MAY NOT fulfill this requirement with lower level or general education courses in math and science (including but not limited to examples such as: any BI SC course, any BMB course below the 100 level, MATH 110 and 111, and the like).

Students MAY NOT fulfill this requirement with courses that significantly repeat material from courses required for the major, (including but not limited to examples such as: CHEM 202 or 203 after taking CHEM 210 or 212, or vice-versa; PHYS 250 or 251 after taking PHYS 211,212,213, and 214, or vice-versa; and so forth).

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PRESCRIBED COURSES-C OR HIGHER

- □ MICRB 401, 3 units
- □ MICRB 415, 3 units
- □ MICRB 410, 3 units
- □ MICRB 450, 2 units
- □ MICRB 412, 3 units

ADDITIONAL COURSES

A. Select 4 of the following courses (11-12 units) **If you take 11 units in this requirement, you must take 7 units in subrequirement C.**

- □ MICRB 415, 3 units
- □ MICRB 410, 3 units
- □ MICRB 450, 2 units
- □ MICRB 412, 3 units

B. Select 3 units in 400-level laboratory courses:

- □ MICRB 422, 2 units □ BMB 445W, 2 units
- □ MICRB 447, 1 unit □ BMB 448, 2 units

C. Select 6-7 units from FD SC 408, BMB /MICRB 408, BMB 488, BMB 496, or any MICRB 400-level course, with a total max. of 4 units in BMB 488 and/or BMB 496 and a total max. of 3 units in BMB 408 and/or MICRB 408.

"""If you take 6 units in this requirement, you must take 12 units in subrequirement A.**

LIST C FREE ELECTIVES

Select 8-10 units from department list:

- □ □
- □ □
- □ □
- □ □
- □ □
- □ □

With the EXCEPTION of the courses listed below, ALL courses appearing in the University Bulletin are acceptable as elective courses: 6 units of ROTC may be applied toward graduation requirements. Students MAY NOT fulfill this requirement with lower level or general education courses in math and science (including but not limited to examples such as: any BI SC course, any BMB course below the 100 level, MATH 110 and 111, and the like). Students MAY NOT fulfill this requirement with courses that significantly repeat material from courses required for the major, (including but not limited to examples such as: CHEM 202 or 203 after taking CHEM 210 or 212, or vice-versa; PHYS 250 or 251 after taking PHYS 211,212,213, and 214, or vice-versa; and so forth). Students MAY NOT fulfill this requirement with remedial courses (including but not limited to examples such as: LL ED 5 and 10; ENGL 4, 5, and 6; ESL 4 and 5; CHEM courses below CHEM 110; MATH courses below MATH 110; STAT 100; PHYS courses below PHYS 211; and the like).
GENERAL EDUCATION REQUIREMENTS

KNOWLEDGE DOMAINS (must total 30 units)

Natural Sciences (GN), 9 units
- CHEM 110 & 111, 4 units
- CHEM 112 & 113, 4 units
- PHYS 211 or 250, 4 units

Arts (GA), 6 units
(3 units must NOT be inter-domain*)
- ____________________________ GA

Humanities (GH), 6 units
(3 units must NOT be inter-domain*)
- ____________________________ GH

Social and Behavioral Sciences (GS), 6 units
(3 units must NOT be inter-domain*)
- ____________________________ GS

Health and Wellness (GHW), 3 units
(3 units must NOT be inter-domain*)
- ____________________________ GHW

Additional Knowledge Domain Courses, 0-6 units*
- ____________________________
- ____________________________

FOUNDATIONS **Grades of C or better required**

Writing and Speaking (GWS), 9 units
- ENGL 15, 3 units
- CAS 100, 3 units
- ENGL 202 (C preferred), 3 units

Quantification (GQ), 6 units
- MATH 140, 4 units
- MATH 141, 4 units

ADDITIONAL UNIVERSITY REQUIREMENTS

The following requirements can overlap/double count with Knowledge Domain Courses or major requirements.

First-Year Seminar (FYS), 1 unit
- PSU 16, 1 unit

US Cultures (US), 3 units
- ____________________________

International Cultures (IL), 3 units
- ____________________________

Writing Across the Curriculum (WAC), 3 units
- ____________________________

Integrative Studies (IS), 6 units
Must be two (paired) Linked courses (Z-suffix), or two (distinct) Inter-domain* courses (N-suffix)
- ____________________________
- ____________________________

*Inter-domain courses* span across two different Knowledge Domains. One inter-domain course may count as 3 units toward each Domain, but 30 distinct units of Knowledge Domains courses (GN/GA/GH/GS/GHW) are required in total.

*Move-3 Substitution:* A student may choose to shift 3 units of courses from the GN, GA, GH, or GS categories to either GN, GA, GH, GS, or GHW categories with the approval of an Academic Adviser.