

2009-2010 BACHELOR OF SCIENCE--BIOLOGICAL SCIENCES MAJOR AREAS OF EMPHASIS: MIC, MCB, NPB

Name: _____

ID: _____

Note: Although a course may be listed in more than one category, that course may satisfy only one requirement.

MICROBIOLOGY AREA OF EMPHASIS (15-20 units)

Completed
 Field Requirement: Field C = MIC 102 _____

Complete one of the four options below **or** complete an individual option with approval from your faculty adviser.

Option A: Microbial Physio. & Molec. Genetics (15-18 units)
 Students must complete Biological Science 102+103 for this option. BIS 102+103 completed _____

- | | Units | Grade | GPB |
|--|----------|-------|-------|
| a) MIC 102L | <u>3</u> | _____ | _____ |
| b) MIC 140 | <u>3</u> | _____ | _____ |
| c) MIC 150 | <u>3</u> | _____ | _____ |
| d) One course from: MIC 170; MCB 121, 161. | | | |

e) One course from: MIC 105+105L, 155L, 170; PMI 127.

Option B: Microbial Diversity and Ecology (15-17 units)
 Students must complete Biological Science 102+103 for this option. BIS 102+103 completed _____

- | | | | |
|-------------|----------|-------|-------|
| a) MIC 102L | <u>3</u> | _____ | _____ |
| b) MIC 105 | <u>3</u> | _____ | _____ |
| c) MIC 105L | <u>3</u> | _____ | _____ |
| d) MIC 120 | <u>3</u> | _____ | _____ |

e) One course from: FST 104; MIC 140, 150, 162, 170; PMI 127, 128; PLB/PLP 148; SSC 111.

Option C: Biotechnology & Applied Microbiology (16-19 units)
 Students choose to complete Biological Sciences 105 or 102+103 for this option.

- | | | | |
|---|----------|-------|-------|
| a) MIC 102L | <u>3</u> | _____ | _____ |
| b) Select two courses from: MIC 140, 150, 170 | <u>3</u> | _____ | _____ |
| | <u>3</u> | _____ | _____ |

c) One course from: FST 102A, 104.

d) One course from: MIC 155L; MCB 120L, 160L.

Option D: Medical Microbiology (15-20 units)
 Students choose to complete Biological Sciences 105 or 102+103 for this option.

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|--|----------|-------|-------|
| a) MIC 102L | <u>3</u> | _____ | _____ |
| b) PMI 126 | <u>3</u> | _____ | _____ |
| c) One course from: MMI 115, 116; PMI 127. | | | |

d) One course from: MIC 105+105L, 162; PMI 128.

e) One course from: MIC 140, 150, 170.

TOTAL FOR MIC AREA _____

MOLECULAR AND CELLULAR BIOLOGY AREA OF EMPHASIS (12-17 units)

Students must complete Biological Science 102+103 for this emphasis. BIS 102+103 completed _____

	Units	Grade	GPB
1. <i>Molecular Biology and Gene Expression</i> : One course from MCB 121 or 161.			

2. *Laboratory Experience*: One or more laboratory courses from BIS 120P; MCB 120L, 140L, 160L or other lab course (to total 3 units or 9 hrs/week) that emphasizes cellular or molecular biology with approval from your faculty adviser.

3. *Restricted Electives*: Two or more courses from BIS 120; MCB 123, 124, 126, 143, 144, 145, 150, 162, 163, 164, 182; NPB 103; PMI 126; PLB 113, 126; or other courses with faculty adviser's approval.

TOTAL FOR MCB AREA _____

NEUROBIOLOGY, PHYSIOLOGY AND BEHAVIOR AREA OF EMPHASIS (15 units)

Students choose to complete Biological Sciences 105 or 102+103 for this emphasis.

Complete 15 units choosing courses from at least two of the following areas (1-3 below) including one laboratory from: NPB 101L, 104L, 141P or 160L.

	Units	Grade	GPB
1. <i>Neurobiology</i> : NPB 100, 106*, 112, 124, 125, 126, 160, 160L, 161, 162, 163, 164, 165, 168, 169; PSC 121, 124, 128, 129*.			

2. *Physiology*: APC 100, ENT 102; EXB 101, 110, 111, 125; NPB 101, 101L, 103, 104L, 105, 106*, 111C, 111L, 113, 114, 117, 121, 121L, 122, 123, 127, 128, 130, 131, 139, 140, 141, 141P, 152*; PMI 126; WFC 121.

3. *Behavior*: ANT 154A, 154B; ENT 104; NPB 102, 150, 152*, 159, 162; PSC 122, 123, 129*.

*Course may be used only once to satisfy Area of Emphasis requirements.

TOTAL FOR NPB AREA _____

Deficiencies/Comments: _____

Quarter/Initials Date: _____