**Summary Curriculum Map**

Students graduating in this program get B.S. degrees in biology and in chemistry.  Therefore they must fulfill the learning outcomes for each degree and should make up part of the major assessment pool for each department.  Rather than rewrite the learning outcomes for each department and propose to run a separate assessment for BCMB students, we are proposing to have their fulfillment of learning outcomes assessed by the departments, to then isolate the BCMB pool  and compare it to the pool of all majors to see if BCMB majors are falling short or excelling at certain outcomes, and to assess the one learning outcome unique to the program (integration of biology and chemistry in addressing a specific research project) using the student capstones.  The curriculum map consists only of those courses that are electives within either the biology or chemistry major, and are primarily considered as they address the unique learning outcome.

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| **If the course requires students to produce an artifact demonstrating student learning relevant to the outcome, indicate by placing the appropriate letter in the box (I = Introduced; D = Developed; M = Mastered). This form should be completed in concert with the “Student Learning Evidence Inventory” forms.** |  |
|  | **COURSES SPECIFICALLY REQUIRED FOR THE PROGRAM IN BIOCHEMISTRY AND MOLECULAR BIOLOGY (DOES NOT INCLUDE COURSES REQUIRED FOR ALL BIOLOGY OR CHEMISTRY MAJORS)** |  |
| **LEARNING OUTCOMES** | BIOL 338 | BIOL 334 or 344 | Two of: BIOL 325, 326, 342, 343, 345, 348, 356, CHEM 345 | CHEM 320 | CHEM research and seminar (378, 478, 394) | Or BIOL research and seminar (0ne of 403- 460, and 394, 495,and 496)  | Or BLCM interdisciplinary research and BIOL 394, 495, and 496 or CHEM 394 |  |  |  |  |
| 1. Fulfill the learning outcomes expected of biology majors: see Biology curriculum map. |  |  |  |  |  |  |  |  |  |  |  |
| 2. Fulfill the learning outcomes expected of chemistry majors: see Chemistry curriculum map. |  |  |  |  |  |  |  |  |  |  |  |
| 3. Will integrate knowledge and skills from both disciplines to address a research question at the intersection of biology and chemistry.  |  |  |  |  | M |  M | M |  |  |  |  |