**BIOL Curriculum Map**

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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).**  |
|  |  **COURSES** |
| **LEARNING OUTCOMES (Graduates will):** | 200 | 201 | 238 | 239 | 250 | 260(var) | 317 | 325 | 326 | 331 | 332 | 334 | 336 | 337 | 338 | 339 | 340 | 341 |
| 1) Effectively integrate and apply biological concepts to solve problems.  | I | I | I | I |  D |   |  D | D | D |  D |  D |  D |  D |  D | D | D |  D |   |
| 2) Effectively design, execute, and interpret experiments to address questions in a laboratory or research project setting. | I | I | D | D |  D |   |  |   | M | M |   | M | M | M | M |   |   |   |
| 3) Draw statistically reasonable conclusions from quantitative data from their own original research or the primary literature. | I | I | D | D |   |   |   | D | D |   |  D |  D |   |   |   |   |   |   |
| 4) Effectively integrate data from multiple experiments and knowledge from multiple scientific sources in support of a thesis. |  | I | I | I |  D |   |  D | D | D |  D |  D |  D |  D | D |  D | D |  D |   |
| 5) Clearly communicate these arguments orally and in writing, in a standard scientific format with accurate use of conventions such as citations, figures/tables, and statistics. | I | I | I | I |  D |   |  D | D | D |  D |  D |  D |   |  D |  D | D |  D |   |

**BIOL Summary Curriculum Map**

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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).**  |
|  |  **COURSES** |
| **LEARNING OUTCOMES (Graduates will)** | 342 | 343 | 344 | 345 | 346 | 348 | 350 | 352 | 353 | 360(var) | 403-8/ 460 | 394/495/496 BA capstone |
| 1) Effectively integrate and apply biological concepts to solve problems.  | D |  D |  D | D |  D |  D | D |  D |  D |   | M | M  |
| 2) Effectively design, execute, and interpret experiments to address questions in a laboratory or research project setting. | M | M | M | M | M | M |  | M |   |   | M |   |
| 3) Draw statistically reasonable conclusions from quantitative data from their own original research or the primary literature. | D |   |  D |   |   |   |   |  D |   |   | M | M |
| 4) Effectively integrate data from multiple experiments and knowledge from multiple scientific sources in support of a thesis. | D |  D |  D |  D |  D |  D | D  |  D |  D |   | M | M |
| 5) Clearly communicate these arguments orally and in writing, in a standard scientific format with accurate use of conventions such as citations, figures/tables, and statistics. | D |  D |  D |   |  D |  D |   |  D |  D |   | M | M |