**Summary Curriculum Map**

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|  | **If the course requires Graduates 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**  |
| **LEARNING OUTCOMES** | 122 | 204 | 221 | 231 | 235 | 241 | 245 | 251 | 311 | 312 | 321 | 325 | 331 | 338 | 341 | 355 | 459 | CS110 |
| **Outcome 1a.** Graduates will create and verify their own conjectures, rather than simply using provided formulas, rules and theorems in multiple courses throughout the mathematics curriculum. | I | M | I |  |  | D | M | M | D | D | M |  | D |  | M |  |  |  |
| **Outcome 1b.** Graduates will prove theorems using the language of mathematics in theoretical junior/senior level courses and present those results both orally and in writing. | I | I | I |  |  | D | D | D | D | D | M |  | D |  | M |  |  |  |
| **Outcome 2a.** Graduates will use clear and well-supported mathematical arguments to explain mathematical problems, topics, and ideas in writing. **Outcome 2b.** Graduates will give clear and well-organized presentations about mathematical topics that communicate mathematical arguments.  |  | I |  |  |  | I | D | D |  |  | D |  |  |  | D |  | M |  |
| **Outcome 3.** Graduates will apply mathematical or computational techniques to areas outside of mathematics. Graduates will extract mathematically relevant information from data, test hypotheses and assumptions, and formulate logical conclusions using mathematical analysis. | I | I | I | D | D | I |  |  | M | M |  |  | M | M |  |  |  | D |
| **Outcome 4a.** Graduates will interpret articles or books from the mathematical literature. **Outcome 4b.** Graduates will incorporate ideas and results from the literature in their written and oral presentations.  |  | I | I | D | D | D | D | D | D | D | D | D | D | D | D | D | M |  |