**Specialized MS Course Competency Mapping Template**

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| **Competency** | **Objective** | **Course Goals:** (fill in with course goals) |
| A | **Biomedical Scientific Knowledge**  | **1** | 1. Apply biomedical scientific knowledge in the biomedical, translational, and/or clinical sciences.
 | **1** |  |
| **2** |  |
|  |  | **2** | Critically analyze and evaluate literature in the biomedical sciences to discover and implement new knowledge and skills | **3** |  |
| **4** |  |
|   |  | **3** | Demonstrate advanced understanding of a range of technical and conceptual approaches used in biomedical sciences research. | **5** |  |
| **6** |  |
| B | **Communication Skills**  | **1** | Demonstrate effective oral and written communication skills |  |  |
|  |  | **2** | Articulate the significance and implications of one’s own work to scientific and lay audiences |  |  |
| C | **Professionalism, Ethics and Collegiality**  | **1** | Exemplify established professional codes of conduct, including following through on tasks, accepting responsibility for one’s actions, and accurately representing actions and events. |  |  |
|  |  | **2** | Establish rapport with others that encourages a team-based, goal-oriented environment. |  |  |
|  |  | **3** | Demonstrate ethical behavior and comply with institutional policies, protocols, and procedures |  |  |
| D | **Scientific Methods; Analytic Skills** | **1** | Able to appraise, modify, and/or create and implement scientific methods towards addressing a problems in biomedical science. |  |  |
|  |  | **2** | Students in biotechnology program will also demonstrate technical competency in the laboratory |  |  |
|  |  | **3** | Students in the Forensic Genetics Program will demonstrate ability to operate modern instrumentation found in forensic laboratories, including but not limited to microscopy and capillary electrophoresis, as well as the methodologies for DNA extraction, quantification, PCR amplification, genetic analysis, and data interpretation |  |  |
| E | **Career Development & Collaboration** | **1** | Acceptance into professional school, graduate school or employed in an appropriate field after graduation |  |  |
|  |  | **2** | Engage in independent learning and networking |  |  |
|  |  | **3** | Critically examine and synthesize ideas, methods, and practices of others |  |  |

**Course Competency Mapping**

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| **Learning Outcome (add all for the course)** | **Competency** | **Objective** | **Course Goal** |
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