

# MEDICAL SCIENCES, M.S.

## Program Learning Outcomes

*Students who complete the program will be able to:*

- Demonstrate a clear understanding of different biomedical sciences.
- Dissect a human body donor as a tool to understand anatomy and pathology.
- Work effectively as an individual, collaboratively in teams, and in multi-disciplinary settings to undertake lifelong learning.
- Design, conduct, analyze, interpret, and present a research project in biomedical sciences.
- Demonstrate the appropriate written and oral communication skills required of the professional practitioner.
- Discuss ethical issues in biomedical sciences.

## Concentrations

- Anatomy (p. 1)

## Master of Science in Medical Sciences (No Concentration)

| Code  | Title                                     | Units        |
|---|---|--------------|
| <b>Required Courses</b>                                 |   |              |
| ANA 6001  | Human Gross Anatomy                       | 6            |
| ANA 6009  | Applied Neuroanatomy                      | 3            |
| ANA 6020  | Human Embryology                          | 3            |
| KIN 6005  | Research Methods                          | 3            |
| KIN 6050  | Research Project Seminar in Kinesiology   | 2            |
| KIN 6060  | Directed Readings                         | 1            |
| KIN 6095  | Comprehensive Examination <sup>1</sup>    | 0-3          |
| or KIN 6098   | Capstone Project                          |              |
| <b>Elective Courses</b>                                 |   |              |
| Choose eight (8) units from the following: <sup>1</sup> |   | 8-11         |
| BIO 6060  | Microbiology and Immunology               |              |
| BIO 6062  | Genetics and Molecular Biology            |              |
| BIO 6063  | Cell Biology                              |              |
| KIN 6017  | Lifestyle Medicine and Integrative Health |              |
| KIN 6019  | Health Equity and Social Justice          |              |
| KIN 6088  | Internship or Practicum in Kinesiology    |              |
| MSM 6002  | Physiology                                |              |
| MSM 6003  | Foundations of Medical Science            |              |
| OCC 6004  | Health and Equity Disparities             |              |
| <b>Total Units</b>                                      |   | <b>26-32</b> |

<sup>1</sup> Eleven (11) units of elective courses are required if the student chooses to take KIN 6095.

## Anatomy Concentration

| Code                    | Title                         | Units |
|-------------------------|-------------------------------|-------|
| <b>Required Courses</b> |                               |       |
| ANA 6001                | Human Gross Anatomy           | 6     |
| ANA 6003                | Teaching and Learning Anatomy | 1     |
| ANA 6004                | Anatomy Clinical Practice     | 2     |

|             |   |     |
|-------------|---|-----|
| ANA 6009    | Applied Neuroanatomy                    | 3   |
| ANA 6020    | Human Embryology                        | 3   |
| KIN 6005    | Research Methods                        | 3   |
| KIN 6050    | Research Project Seminar in Kinesiology | 2   |
| KIN 6060    | Directed Readings                       | 1   |
| KIN 6095    | Comprehensive Examination <sup>1</sup>  | 0-3 |
| or KIN 6098 | Capstone Project                        |     |

### Elective Courses

|  |   |     |
|--|---|-----|
| Choose five (5) units from the following: <sup>1</sup> |   | 5-8 |
| BIO 6060   | Microbiology and Immunology               |     |
| BIO 6062   | Genetics and Molecular Biology            |     |
| BIO 6063   | Cell Biology                              |     |
| KIN 6017   | Lifestyle Medicine and Integrative Health |     |
| KIN 6019   | Health Equity and Social Justice          |     |
| KIN 6088   | Internship or Practicum in Kinesiology    |     |
| MSM 6002   | Physiology                                |     |
| MSM 6003   | Foundations of Medical Science            |     |
| OCC 6004   | Health and Equity Disparities             |     |

**Total Units** **26-32**

<sup>1</sup> Eight (8) units of elective courses are required if the student chooses to take KIN 6095.