Master of Science (M.S.)

**Health Informatics and Bioinformatics**

**Bioinformatics Concentration (Winter Start)**

**2024 – 2025**

**Catalog Year**



**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ G Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **1st Year** |
| **Winter**CIS 660: Data EngineeringPSM 650: Ethics & Professionalism in Applied ScienceCMB 610: Foundations of Biotechnology**Total** | 333**9** | **Fall**CIS 635: Knowledge Discovery and Data MiningCIS 661: Introduction to Health and BioinformaticsSTA 610: Applied Statistics for Health Professions **or** STA 622: Statistical Methods for Biologists**Total** | 333**9** |
| **2nd Year** |
| **Winter**CIS 671: Information VisualizationCIS 677: High-Performance ComputingCIS 691: Medical and Bioinformatics Capstone**Total** | 333**9** | **Fall**PSM 662: Seminar in Professional Science Practice PSM 691: InternshipCIS 678: Machine Learning**Total** | 243**9** |

* This is a suggested curriculum guide that might not be applicable to every student.
* Students must have 36 credits to graduate, with a minimum of 24 credits taken at GVSU.
* Students must maintain a 3.0 GPA to graduate.

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| **Admission Requirements** |
| **Grade point average of 3.0** from undergraduate work **OR** satisfactory **GRE/GMAT** score |
| **Resume** detailing work experiences and accomplishments |
| **Personal statement** of career goals and background experiences, including an explanation of how this program will help achieve educational and professional objectives. |
| **Recommendations**: Two professional or academic recommendations received online, addressing the candidate’s potential for graduate study completion. You will provide the emails of two references in your account at www.gvsu.edu/gradapply, and they will be sent a link to fill out their online recommendation. |
| **CIS 500** (or a **programming** **language** knowledge) |
| **STA 610** (or **applied statistics** knowledge) |