Master of Science (M.S.)
Health Informatics and Bioinformatics
Bioinformatics Concentration (Fall Start)

2025 – 2026 Catalog Year

Name: _____   **G Number:** _____

1st Year				
Fall			**Winter**	
CIS 661: Introduction to Health and Bioinformatics		3	CIS 635: Knowledge Discovery and Data Mining	3
PSM 650: Ethics & Professionalism in Applied Science		3	CIS 660: Data Engineering	3
STA 622: Statistical Methods for Biologists		3	CMB 610: Foundations of Biotechnology	3
			or CMB 501: Scientific Communication	
Total		**9**	**Total**	**9**
2nd Year				
Fall			**Winter**	
CIS 671: Information Visualization		3	CIS 691: Medical and Bioinformatics Capstone	3
CIS 678: Machine Learning		3	PSM 662: Seminar in Professional Science Practice	2
Bioinformatics Elective		3	PSM 691: Internship	4
Total		**9**	**Total**	**9**

List of Bioinformatics Electives:
CIS 677: High-Performance Computing
CMB 552: Computer Modeling and Drug Design
CMB 560: Genomics and Molecular Diagnostics

- 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.

Admission Requirements
Grade point average of 3.0 from undergraduate work
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.
Programming language knowledge
Applied statistics knowledge

Student Signature _____   **Date** _____

GPD Signature _____   **Date** _____