Master of Science (M.S.)

**Data Science and Analytics**

**Winter Start**

**Prereqs: Programming**

**2024 – 2025**

**Catalog Year**



|  |
| --- |
| **1st Year** |
| **Winter**CIS 500: Fundamentals of Software PracticePSM 650: Ethics & Professionalism in  Applied ScienceSTA 518: Statistical Computing and Graphics  with R **Total** | 333**9** | **Spring/Summer**Elective**Total** | 3**9** | **Fall** CIS 635: Knowledge Discovery and Data  MiningSTA 631: Statistical Modeling and  RegressionPSM 662: Seminar in Professional Science  PracticePSM 691-10: Internship**Total** | 3321**9** |
| **2nd Year** |
| **Winter**CIS 660: Data EngineeringCIS 671: Information VisualizationSTA 632: Statistical Modeling II**Total** | 333**9** |  |  | **Fall**CIS 677: High-Performance Computing **or** CIS 678: Machine LearningSTA 526: Multivariate Data AnalysisPSM 691-03: Internship**Total** | 333**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.
	+ Prerequisites do not count towards the 36 credits.
* Students must maintain a 3.0 GPA to graduate.
* Elective must be approved by Data Science & Analytics Program Director.
* It is recommended that PSM 662 be completed prior to taking PSM 691-03.

|  |
| --- |
| **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 **programming** **language** knowledge, preferably Python) |
| **STA 610** (or **applied statistics** knowledge) |