Master of Science (M.S.)
# Data Science and Analytics
# Fall Start

**2026 – 2027 Catalog Year**

| 1st Year | | | | |
|---|---|---|---|---|
| **Fall** | | | **Winter** | |
| CIS 660: Data Engineering | 3 | | CIS 635: Knowledge Discovery and Data Mining | 3 |
| CIS 677: High-Performance Computing | 3 | | CIS 671: Information Visualization | 3 |
|   **or** CIS 678: Machine Learning | | | STA 518: Statistical Computing and Graphics with R | 3 |
| PSM 662: Seminar in Professional Science Practice | 3 | | | |
| | | | | |
| **Total** | **9** | | **Total** | **9** |
| **2nd Year** | | | | |
| **Fall** | | | **Winter** | |
| PSM 650: Ethics & Professionalism in Applied Science | 3 | | PSM 691: Internship | 3 |
| | | | STA 526: Multivariate Data Analysis | 3 |
| STA 631: Statistical Modeling and Regression | 3 | | STA 632: Statistical Modeling II | 3 |
| Elective | 3 | | | |
| | | | | |
| **Total** | **9** | | **Total** | **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.
- Elective must be approved by Data Science & Analytics Graduate Program Director.
- It is recommended that PSM 662 be completed prior to/during your internship.

| 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, preferably Python (pre-attendance College of Computing foundational courses will be required to make up the deficit) |
| **STA 610** (or **applied statistics** knowledge) |