

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

**2025 – 2026  
Catalog Year**

1st Year			
<b>Winter</b>		<b>Fall</b>	
CIS 660: Data Engineering	3	CIS 635: Knowledge Discovery and Data Mining	3
CIS 677: High-Performance Computing or CIS 678: Machine Learning	3	PSM 662: Seminar in Professional Science Practice	2
PSM 650: Ethics & Professionalism in Applied Science	3	PSM 691-10: Internship	1
		STA 518: Statistical Computing and Graphics with R	3
<b>Total</b>	<b>9</b>	<b>Total</b>	<b>9</b>
2nd Year			
<b>Winter</b>		<b>Fall</b>	
CIS 671: Information Visualization	3	PSM 691-03: Internship	3
STA 631: Statistical Modeling and Regression	3	STA 526: Multivariate Data Analysis	3
Elective	3	STA 632: Statistical Modeling II	3
<b>Total</b>	<b>9</b>	<b>Total</b>	<b>9</b>

- 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
<b>Grade point average of 3.0</b> from undergraduate work
<b>Resume</b> detailing work experiences and accomplishments
<b>Personal statement</b> of career goals and background experiences, including an explanation of how this program will help achieve educational and professional objectives
<b>Recommendations:</b> 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 <a href="http://www.gvsu.edu/gradapply">www.gvsu.edu/gradapply</a> , and they will be sent a link to fill out their online recommendation.
<b>Programming language</b> knowledge, preferably Python (pre-attendance College of Computing foundational courses will be required to make up the deficit)
<b>STA 610</b> (or <b>applied statistics</b> knowledge)