

# Austin Peay State University

## Masters of Science in Computer Science and Quantitative Methods Predictive Analytics Concentration Sample Two-Year Degree Plan

	<b>First Year Summer</b>	
	MATH 5170: Finite Math*	3
✓	<b>First Year Fall Semester</b>	<b>SCH</b>
	STAT 5050: Probabilistic & Statistical Reasoning**	3
	STAT 5270: Nonparametric Statistics	3
	<b>TOTAL SCH</b>	<b>6</b>
✓	<b>First Year Spring Semester</b>	<b>SCH</b>
	STAT 5120: Regression Analysis***	3
	CSCI 5010: Database Management Concepts****	3
	<b>TOTAL SCH</b>	<b>6</b>
✓	<b>First Year Summer Semester</b>	<b>SCH</b>
	STAT 5200: SAS Programming	3
	MATH 5310: Machine Learning	3
	<b>TOTAL SCH</b>	<b>3</b>
✓	<b>Second Year Fall Semester</b>	<b>SCH</b>
	STAT 5125: The Generalized Linear Model	3
	CSCI 5080: Data Mining Applications	3
	<b>TOTAL SCH</b>	<b>6</b>
✓	<b>Second Year Spring Semester</b>	<b>SCH</b>
	STAT 5290: Predictive Analytics	3
	STAT 5140: Time Series Analysis	3
	<b>TOTAL SCH</b>	<b>6</b>
✓	<b>Second Year Summer Semester</b>	<b>SCH</b>
	STAT 5910: Capstone Project	3
	<b>TOTAL SCH</b>	<b>3</b>
	<b>Total Student Credit Hours for Degree</b>	<b>33</b>

\* MATH 5170 covers basic calculus, matrix algebra, and probability required for the program. This course is often waived.

\*\* STAT 5050 is a prerequisite for STAT 5120.

\*\*\* STAT 5120 is a prerequisite for STAT 5125, STAT 5290, and STAT 5140.

\*\*\*\* CSCI 5010 is a prerequisite for CSCI 5080.