Data Analytics Core Prerequisite Structure
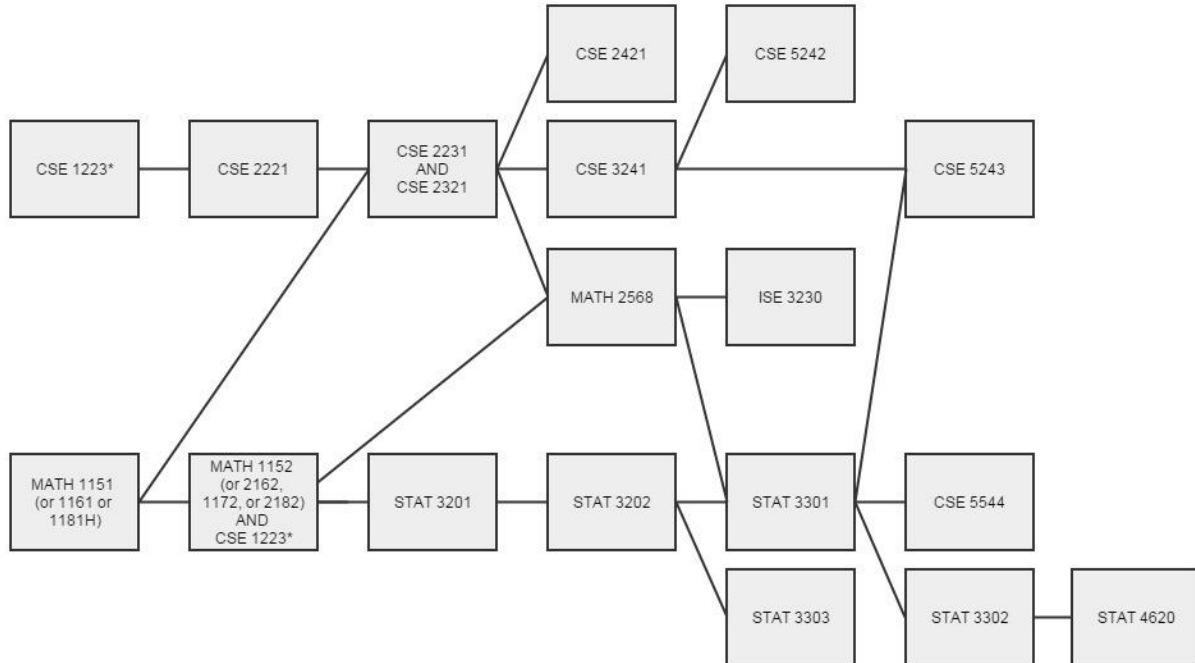
REQUIRED CORE COURES: ALL SPECIALIZATIONS			
COURSE	**TITLE**	**HOURS**	**PREREQUISITES**
CSE 1223*	Intro to Computer Programming in Java	3	N/A
CSE 2221*	Software 1	4	CSE 1222 or 1223 or Engr 1221, or 1281.01H, or 1281.02H, or CSE Placement Level A. **Concur:** Math 1151 or 1161.01 or 1161.02.
STAT 3201	Intro to Probability for Data Analytics	4	Math 1152, 1161.xx, 1172, or 1181 or equiv, and CSE 1223 or equiv.
CSE 2231	Software 2	4	CSE 2221. **Concur:** CSE 2321
CSE 2321	Foundations 1	3	CSE 2221 and Math 1151 **Concur:** CSE 2231
CSE 2421	Systems 1	4	CSE 2231 and CSE 2321
MATH 2568	Linear Algebra	3	A grade of C- or above in MATH 1172, 1544, 2153, 2162.xx, 2182H, or 4182H; **or a grade of C- or above in both MATH 1152 and CSE 2321**
STAT 3202	Intro to Statistical Inference for Data Analytics	4	STAT 3201
CSE 3241	Databases 1	3	CSE 2231 **and** CSE 2321
ISE 3230	Systems Modeling and Optimization	3	Math 1152, MATH 2568, and CSE 2231
STAT 3301	Statistical Modeling for Discovery 1	3	STAT 3202 and Math 2568
STAT 3302	Statistical Modeling for Discovery 2	3	STAT 3301
CSE 5243	Data Mining	3	STAT 3301 and CSE 3241
CSE 5544 OR ISE 5760	Visualization	3	**CSE 5544:** STAT 3301 **ISE 5760:** Jr, Sr, or Grad Standing
STAT 4620	Intro to Statistical Learning	2	STAT 3302
CSE 5242	Database 2	3	CSE 3241
STAT 3303	Statistical Decision Making	3	STAT 3202
TOTAL CORE HOURS		**52**	

*CSE 1223 is the preferred introductory programming course to meet the pre-requisite requirement for CSE 2221; however, other options do exist. Please refer to the full list of acceptable prerequisites for CSE 2221 and verify that you have not already completed one of the many other courses accepted as a prerequisite for CSE 2221.

The prerequisite structure for the Data Analytics major was designed to ensure students success in the program and is strictly enforced. Some courses are only offered one time per academic year. Failure to enroll in and successfully complete courses when they are offered will delay graduation. Students should meet with an Academic Advisor regularly to ensure that they are making proper progress toward their degree.

It is your responsibility as a student to know the published policies governing the curriculum you are pursuing, as well as the regulations and procedures of the college and the university. **For potential updates visit http://artsandsciences.osu.edu/ & data-analytics.osu.edu and schedule regular appointments with your academic advisor.**

Data Analytics Core Flow Chart

(Course structure is read from left to right)

*CSE 1223 is the preferred introductory programming course to meet the pre-requisite requirement for CSE 2221; however, other options do exist. Please refer to the full list of acceptable prerequisites for CSE 2221 and verify that you have not already completed one of the many other courses accepted as a prerequisite for CSE 2221.

The prerequisite structure for the Data Analytics major was designed to ensure students success in the program and is strictly enforced. Some courses are only offered one time per academic year. Failure to enroll in and successfully complete courses when they are offered will delay graduation. Students should meet with an Academic Advisor regularly to ensure that they are making proper progress toward their degree.

It is your responsibility as a student to know the published policies governing the curriculum you are pursuing, as well as the regulations and procedures of the college and the university. **For potential updates visit http://artsandsciences.osu.edu/ & data-analytics.osu.edu and schedule regular appointments with your academic advisor.**