

## Guidelines for Advising Curriculum Transition (Changes Starting FALL 2022)

### Bachelors of Science in Data Science (BS DS) MAJOR \*MINOR

This table reflects course name changes and equivalences

Old Version (Fall 2020 to Spring 2022)	New Version (Starting Fall 2022)	Minor	3+1
<b>CS 151: Introduction to Programming</b> Language: Python Pre-req: None	<b>CS 151: Introduction to Programming*</b> Language: Python Pre-req: None	X	X
<b>MATH 239: Statistical Learning with R</b> Language: R Pre-req: MATH 138, IDS 138, AP Stat	<b>DATA 151: Introduction to Data Science in R*</b> Language: R Pre-req: None	X	X
<i>Hidden requirement of introductory stats (MATH 138, IDS 138, AP Stat)</i>	<b>DATA 152: Inferential Statistics*</b> Language: R Pre-req: DATA 151 Suggested Credit given for: MATH 138, IDS 138, AP Stat	X	X
<b>MATH 280: Math for Data Science</b> Pre-req: Calculus	<b>DATA 251: Math for Data Science</b> Pre-req: Calculus		X
<b>CS 475: Fundamentals of Machine Learning</b> Language: Python Pre-req: CS 241 (Data Structures)	<b>DATA 252: Models and Machine Learning</b> Language: R Pre-req: DATA 152 (and 151 recommended)		DATA 505
<b>DATA 403: Introduction to Data Engineering</b> Language: SQL Pre-req: ?	<b>DATA 351: Data Management with SQL</b> Language: SQL Pre-req: CS 151		DATA 503
<b>CS 370: Fundamentals of Data Science</b> Language: Python Pre-req: CS 151	<i>CS 370 taken in previous terms can be accepted for:</i> <b>DS Elective &gt;300 level</b>		DATA 502
<del><b>DATA 410: Undergraduate Capstone</b></del> Replaced with an addition 300 level elective	<b>DATA 352W: Ethics, Teamwork and Communication</b> Pre-req: CS 151 or DATA 151		DATA 504W
			DATA 510W
<b>DS Elective &gt;100 level</b>	<b>DS Elective any level*</b>	X	UG
<b>DS Elective &gt;300 level</b>	<b>DS Elective any level*</b>	X	UG
<b>DS Elective &gt;300 level</b>	<b>DS Elective any level</b>		G x3