Electives In addition to taking at least two Data Science electives (in bold), students must complete CIS 241, at least one course in each category Introductory shown, and at least two at the 300-Core level or higher. CIS 100/115: IT & **Coding and Production** CIS 343: Adv. Data Analysis: Simulations **Analysis and Modeling** CIS 345: Adv. Data Analysis: Networks CIS 230: Artificial Intelligence CIS 241: Data Mining CIS 343: Adv. Data Analysis: Simulations CIS 345: Adv. Data Analysis: **Networks** CIS 245: Information Visualization CIS Elective CIS Elective Any CIS course at any level may be used here. Specific offerings of the topics courses CIS 297 and CIS 397 may also count towards various CIS

distribution requirements.

Visual Guide to the CIS Major: Data Science Emphasis

Catalog Text: Students complete the requirements of the CIS major with one of their electives being CIS 241 and two of the remaining four electives drawn from CIS 230, CIS 245, CIS 343, or CIS 345. Students also complete MTH 205, MTH 125, or MTH 245/BIO 245. Some offerings of CIS 297 or CIS 397 may also be designated as counting towards the Data Science emphasis.

Statistics Course Take One Of: MTH 205: Probability & Statistics MTH 125: Introductory Statistics MTH 245/BIO 245: Applied Stats for Life Sciences Capstone Experience

CIS 400: Service-Learning Project Management

