

## DATA SCIENCE MINOR

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Code	Title	Credits
CS-131	Data Visualization and Statistical Analysis	3
CS-141	Data Cleaning and Preprocessing	3
CS-265	Database Applications	3
CS-234 or CS-453	Data Mining for Non-Cs Majors Data Mining	3
CS-383	Cloud, Parallel and Distributed Computing	3
UR-230 or PH-134	Technology, Public Policy and Urban Society Computing Ethics	3
<b>Total Credits</b>		<b>18</b>

Students in the Computer Science Data Science Minor will be able to:

- Clean and preprocess a given dataset for further analysis.
- Analyze a given dataset using visualization, statistical analysis and Data Mining/Machine Learning methods.
- Manage and process data stored in relational and NoSQL databases.
- Apply basic Cloud, Parallel and Distributive Computing methods solving a Big Data problem.
- Communicate effectively both in written and oral form.
- Learn new models, techniques, and technologies as they emerge and appreciate the necessity of such continuing professional development.
- Apply ethical principals working with data.