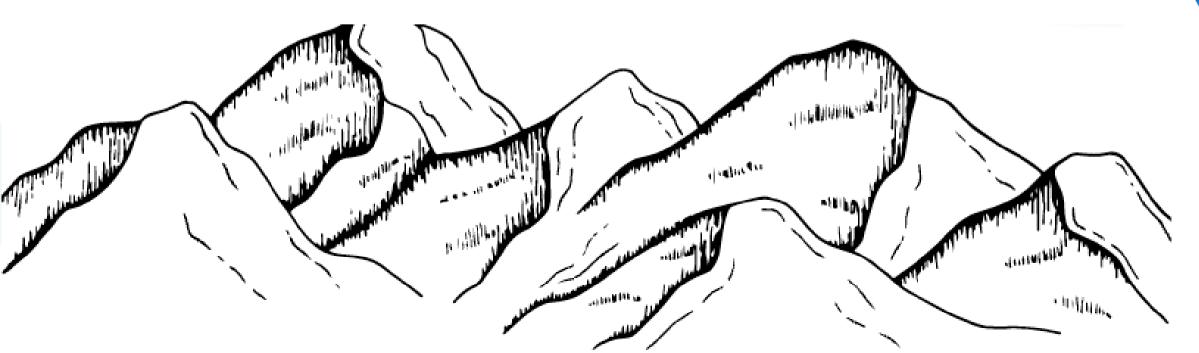
# Understanding Analytics at BYU-I

#### J. Hathaway Data Science Program Chair





datascience@byui.edu

#### **Business Analyst**

- Business-focused
- PowerBI and SQL
- Excel, R, Python

#### **Data Analyst**

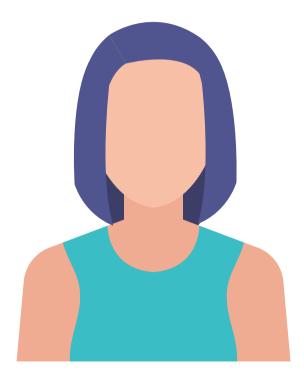
- Multiple domains
- PowerBI and SQL
- R, Python

Business Analytics			~150 majo
		Data Science	
<b>BYU-Idaho Degrees</b>		~500	Compute
Economics, Statistics, Computer Inform			

#### **Data Scientist** • Python, R, SQL • Machine Learning • Statistical Inference

#### **Data Engineer**

- Python & SQL
- Spark
- CS-focused



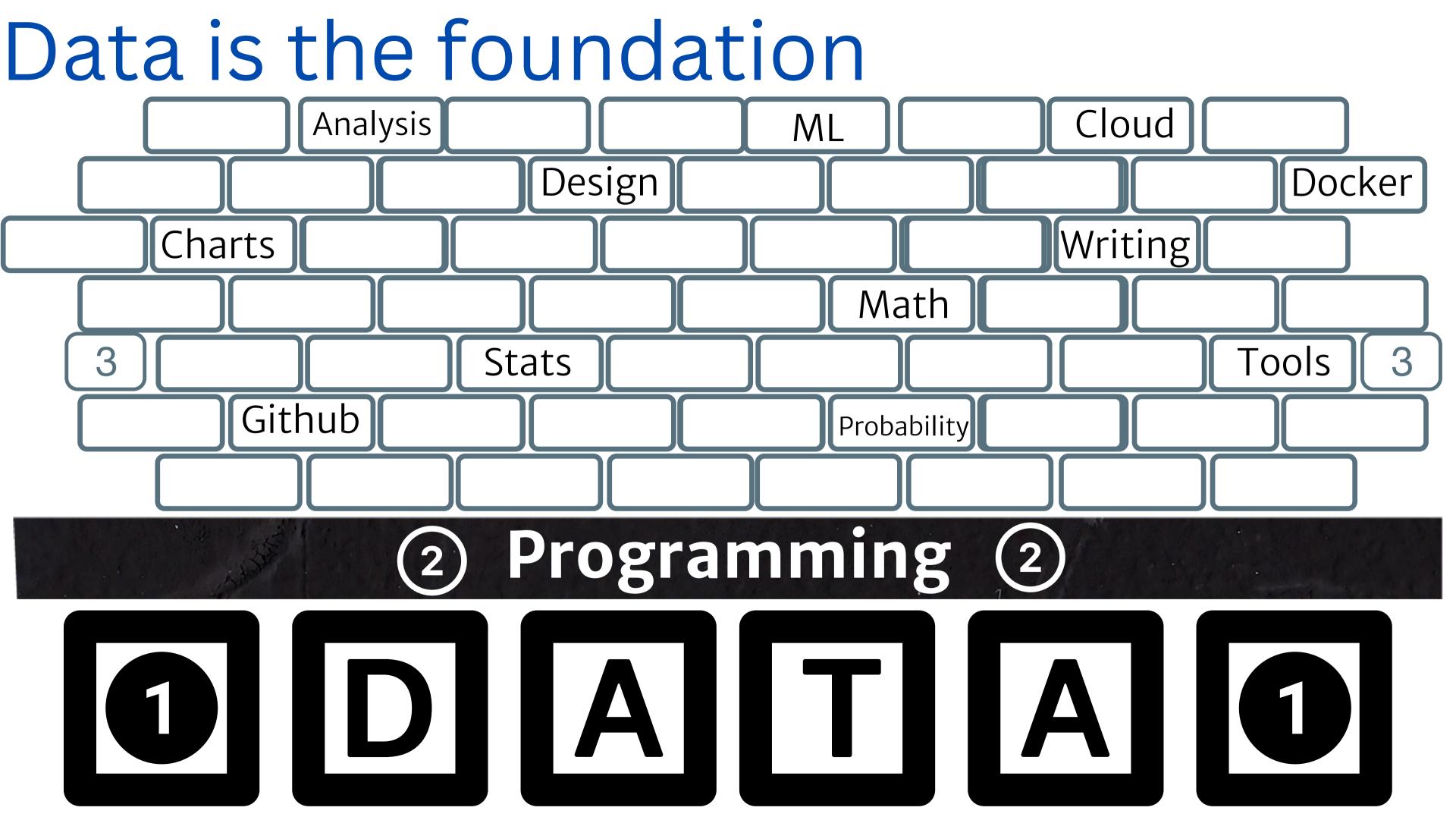




#### er Science (ML Emphasis)

#### nation Technology

https://byuidatascience.github.io/services/



### Industry leading tools



### databricks





ah

Google

Power Bl



quarto<sup>®</sup>



## Experiential Learning is key



- Company-focused small projects
- Meet weekly at 6 pm
- Student teams
- Student lead
- 7-10 projects a semester
- Little to no cost

Internship

- Full Semester
- Company lead
- 20-50 students a semester
- Employed by the company



- Company-focused projects
- Semester based • RBDC and Faculty lead
- 4-8 projects a semester
- Consulting Fee

Freshman

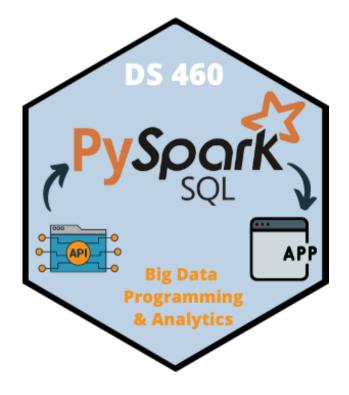
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#### Sophomore









- Capstone course
- Semester based
- Class run as a startup

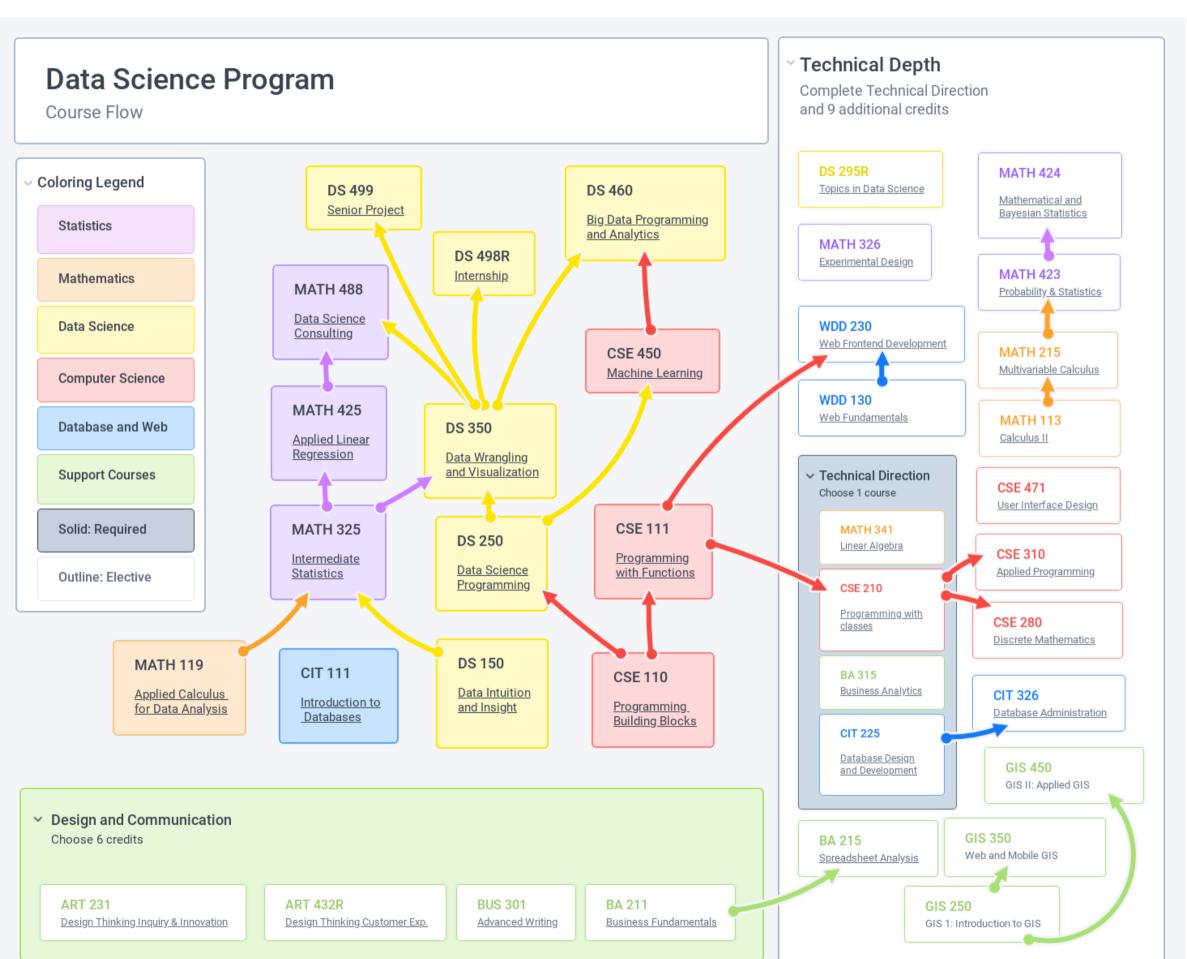
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• Company advised

Senior

### Data Science at BYU-I

- 1. Demonstrate proficiency in the core programming languages of a data science professional.
- 2. Establish a foundation in statistical modeling and mathematical reasoning.
- 3. Do exploratory analyses of complex and 'large' unformatted data across varied domain applications.
- 4. Use machine learning and statistics for inferential decisionmaking in business and science.
- 5. Enrich and demonstrate teambased collaborative skills necessary for careers as a data scientist.
- 6. Understand the ethical and moral implications of data science applications.



https://www.byui.edu/catalog/#/programs/41PwqJ9RZ