

Student:		<b>Minimum 124 semester hours required for graduation</b> <b>18 of the last 24 hours must be at Houghton</b> <b>Must have 30 hours at Houghton</b> <b>One half of major must be at Houghton</b> <i>Must have C- or above in each course to meet Major, Concentration, or Minor credit</i> <i>Must have 62 liberal arts credits for BS degree</i>
Major: <b>Data Science</b>		
Minor:		
<b>BS</b>	Advisor:	
<b>Data Science Major (61-64 hrs)</b>		

**General Education** (see GenEd Audit Sheet)

**Half of credits listed below must be taken at Houghton**

**Major Core Requirements** **49-52 hrs**

(4) DSCI 210 Data Science I	LA	(4) DSCI 211 Data Science II	LA
(4) CSCI 211 Programming I		(4) CSCI 218 Programming II	
(4) CSCI 236 Data Structures & Algorithms		(3-4) BADM/PSY 309 Statistics	LA
(4) CSCI 345 Machine Learning	LA	(4) CSCI 312 Computational Statistics	LA
(4) CSCI 340 Data Bases	LA	(4) PSY 312 Advanced Applied Statistics (LA) <u>or</u> CSCI 395 Big Data & Cloud Computing	
(4) DSCI 480 Senior Capstone Seminar in Data Science	LA	(4) DSCI 380 Collaborative Research in Data Science	LA

**Chose one course from below options in Digital Communication or Development Communication**

(4) COMM 232 Introduction to Web Communication	(4) COMM/ART 224 Time, Motion & Communication
(4) ART 245 Graphic Design I	(4) COMM 314 New Media & Society
(4) COMM 228 Digital Video I	(4) COMM 284 Introduction to Digital Imaging
(4) INCL 347 Development Comm & Grant Writing	(2) COMM ST: Data Visualization

**Cognate chosen from five focus area options below designed with faculty advisor** **12 hrs**

*Public Sector/non-profit applications; Data Journalism; Natural Science; Behavioral & Social Science; Business & Industry*

( ) Course in Data Analysis	( ) Course in Disciplinary Support Application
( ) Course in Presentation of Data	(0-6) Data Science Internship
( )	( )
( )	( )