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| Student: | | Minimum 124 semester hours required for graduation 18 of the last 24 hours must be at Houghton Must have 30 hours at Houghton One half of major must be at Houghton <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 a BS degree</i> |
| Major: Data Science | | |
| Minor: | | |
| BS | Advisor: | |
| Data Science Major | | 61-64 hrs |

General Education (see GenEd Audit Sheet)

Half of credits listed below must be taken at Houghton

Core Requirements **49-52 hrs**

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|---|---|---|
| (4) CSCI 211 Programming I | (3-4) BADM/PSY 309 Statistics | LA |
| (4) CSCI 218 Programming II | (4) PSY 312 Advanced Applied Statistics (LA) or CSCI 395 Big Data & Cloud Computing | |
| (4) CSCI 236 Data Structures & Algorithms | (4) DSCI 211 Data Science I | LA |
| (4) CSCI 312 Computational Statistics | LA | (4) DSCI 212 Data Science II |
| (4) CSCI 340 Databases | LA | (4) DSCI 380 Collaborative Research in Data Science |
| (4) CSCI 345 Machine Learning | LA | (4) DSCI 480 Senior Capstone Seminar |

Choose one course from below options in Digital Communication or Development Communication

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| (4) ART 245 Graphic Design I | (4) COMM/ART 284 Introduction to Digital Imaging |
| (4) ART/COMM 224 Motion Media Design & Animation | (4) COMM 314 New Media & Society |
| LA | LA |
| (4) ART/COMM 228 Digital Video I | (2) COMM XXX ST: Data Visualization |
| | LA |
| (4) COMM 232 Introduction to Web Communication | LA |

Cognate chosen from 5 focus area options below, designed with faculty advisor* **12 hrs**

Public Sector/Nonprofit Applications; Data Journalism; Natural Science; Behavioral & Social Science; Business & Industry

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|---|--|
| Course in Data Analysis (e.g. POLS/SOC 312) | Course in Disciplinary Support Application |
| () | () |
| Course in Presentation of Data | Data Science Internship (DSCI 289/389/489) |
| () | (0-6) |
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*see catalog & advisor for more detailed information