Houghton University

Data Science BA

(31–36 hours in core; 7–8 elective hours)

Total Major LA Credits: 0

LA

Data Science Major Requirements	Credits	Liberal Arts
Core Courses* (31-36 hours)		
CSCI 211 Programming I	4	
DSCI 211 Data Science I		LA
250 ZII Butti Science i		<u> </u>
DSCI	4	LA
DSCI 480 Senior Capstone Seminar in Data Science	4	LA
MATH		LA
PSY/BADM 309 Statistics	4	LA
Digital Communication course		
Electives* (7-8 hours)		
Degree Requirements Earned a C- or above in each Major/Concentration/Minor credit		
Minimum of 124 credit hours completed		
Minimum of 93 Liberal Arts credits for a BA degree		
At least 50% of major completed through Houghton		
30 credit hours from Houghton		
18 of the last 24 credit hours are from Houghton		
egree and program requirements are housed in the Registrar's Office. The not a contract, an academic transcript, or an official notification of compl t's responsibility to be aware of and understand the requirements of his/ students should consult their academic advisor and the Univ	letion of degree/program r her degree program. If ass	equirements. It is t
*Detailed Option	ıs	
urse Options		
Data Science II (4 LA) <i>or CSCI</i> 345 Machine Learning (4 LA)		
<u>and</u>		
O Collaborative Research in Data Science (4 LA) or DSCI 289/389/489 Dat and	a Science Internship (4 LA)	
81 Calculus I (4 LA) <i>or</i> MATH 170/171 Calculus I with Pre-calculus A and l and	B (4 LA, 4 LA)	
one digital communication class from options listed below		
Options		
Programming II	4	

CSCI 236 Data Structures & Algorithms CSCI 312 Computational Statistics

CSCI 315

Big Data & Cloud Computing

CSCI 340 Databases	4			
DSCI 212 Data Science II (4 LA) or CSCI 345 Machine Learning (4 LA) - whichever is not taken in core				
MATH 261 Linear Algebra	4	LA		
POLS 212/ SOC 312 Social Science Research Methods	3	LA		
PSY 312 Advanced Statistics	4	LA		
Digital Communication course (chosen from options below; in addition to the one taken in core)				
Digital Communication Options				
COMM 224/ Motion Media Design & Animation ART 224	4	LA		
COMM 228/ Digital Video I ART 228	4			
COMM 232 Introduction to Web Communication	4	LA		
COMM 243/ Graphic Design ART 245	4			
COMM 284/ Introduction to Digital Imaging ART 284	4			
COMM 314 New Media and Society	3	LA		