**Student Advising Worksheet – Clarkson University**

 STUDENT:  GRAD DATE:

 STUDENT ID #:  PHONE #:

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| **Application ELECTIVE COURSES: (Choose 2)** Application electives for the DS major are courses from outside the MA, STAT, CS, and IS course designations that provide depth of knowledge in some domain. Students must take two 3-credit courses at the 200 level or higher, both from the same subject area, with the particular pairing approved by the math department. A few sample pairs approved in the past include:* COMM 329 Front End Development for Web

COMM 310 Mass Media and Society* PHIL 330 Logic for Critical Thinking

PHIL 350  Philosophy of Artificial Intel* POL230 Intro to Global Politics

POL 353 Politics of Protest\* A student may not major in both AM&S and either MA or DS.  |
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| Notes:  |

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 MAJOR: Data Science OTHER INFO:

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| **KNOWLEDGE AREAS & COMMUNICATION POINTS** |
| **KNOWLEDGE AREA** | **KA Course** | **COMM Course** | **Points (6)** |
| **1**  |  |  | **MA211** | **C2** |
| **2** |  |  |  |  |
| **3** |  |  |  |  |
| **4** |  |  |  |  |
| **5** | **UNIVERSITY Course ( / )**  |  |  |  |
| Students must complete **at least 5 knowledge area courses** that cover 4 of the following 6 knowledge areas: * Contemporary & Global Issues (CGI)
* Cultures & Society (CSO)
* Imaginative Arts (IA)
* Science, Technology & Society (STS)
* Economics & Organizations (EC)
* Individual & Group Behavior (IG)

One of these five courses must be University Course that has two knowledge area designators (UNIV)Students must complete a total of **at least 6 communication points**. |

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|  | **COMMON EXPERIENCE COURSES**  |
| **Title**  | **Course** | **CR** | **Term** | **GR** | **Notes** |
| The Clarkson Seminar | UNIV190 | 3 |  |  |  |
| Science with Lab (PH, CM or BY) |  | 4 |  |  |  |
| Science with Lab (PH, CM or BY) |  | 4 |  |  |  |
| *First Year Seminar\*\**  | *FY100* | 1 |  |  | *1 credit* |

 GPA: MINOR(S):

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|  | **Data Science**  |
| **Title** | **Course** | **CR** | **Term** | **GR** | **Notes** |
| Calculus 1 | MA 131 | 3 |  |  |  |
| Calculus II | MA 132 | 3 |  |  |  |
| Intro to Mathematical Modeling | MA 200 | 3 |  |  |  |
| Discrete Mathematics and Proof  | MA 211 | 3 |  |  | C2 |
| Calculus III  | MA 231 | 3 |  |  |  |
| Applied Linear Algebra | MA 339 | 3 |  |  |  |
| Professional Experience |  MA 499 | 0 |  |  |  |
| Probability | STAT 381 | 3 |  |  |  |
| Mathematical Statistics | STAT 382 | 3 |  |  |  |
| Probability and Statistics | STAT 383 | 3 |  |  |  |
| Advanced Applied Statistics  | STAT 384 | 3 |  |  |  |
| Bayesian Data Analysis | STAT 385 | 3 |  |  |  |
| Statistics Projects | STAT 488 | 2 |  |  |  |
| Introduction to Data Science | DS 241 | 3 |  |  |  |
| Ethics in Data Science and Applied Mathematics | DS 392 | 3 |  |  |  |
| Intro to Computer Science 1 | CS 141 | 4 |  |  |  |
| Intro to Computer Science 2 | CS 142 | 3 |  |  |  |
| Algorithms and Data Structures | CS 344 | 3 |  |  |  |
| Computational Learning | CS 449 | 3 |  |  |  |
| Database Design & Management | IS 314 | 3 |  |  |  |
| Data Warehousing for Analytics | IS 415 | 3 |  |  |  |
| Big Data Architecture | IS 426 | 3 |  |  |  |

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|  | **Free Electives** |
| **Title**  | **Course** | **CR** | **Term** | **Grade** | **Notes** |
| Application Elective 1  |  |  |  |  |  |
| Application Elective 2 |  |  |  |  |  |
| Free Elective  |  |  |  |  |  |
| Free Elective  |  |  |  |  |  |
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|  |  | **EXTRA COURSEWORK (IF ANY)** |
|  **Course** | **CR** | **Term** | **GR** | **Notes** | **Course** | **CR** | **Term** | **GR** | **Notes** |
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| **Title** | **Course** | **CR** | **Term** | **GR** | **Notes** |
| Knowledge Area  |  | 3 |  |  |  |
| Knowledge Area  |  | 3 |  |  |  |
| Knowledge Area  |  | 3 |  |  |  |
| Knowledge Area |  | 3 |  |  |  |
| Knowledge /UNIV Course |  | 3 |  |  |  |