**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. |
| |  | | --- | | Notes: | |

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 | |  |  |  |  |  |
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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 |  |  |  |