**Student Advising Worksheet – Clarkson University**

 STUDENT:  GRAD DATE:

 STUDENT ID #:  PHONE #:

 MAJOR: Applied Mathematics and Statistics OTHER INFO:

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| **KNOWLEDGE AREAS & COMMUNICATION POINTS** |
| **KNOWLEDGE AREA** | **KA Course** | **COMM Course** | **Points (6)** |
| **1**  |  |  | **MA211** | **C2** |
| **2** |  |  | **MA363** | **C2** |
| **3** |  |  | **MA377** | **C2** |
| **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 |  |  |  |
| Computer Science  | CS141  | 4 |  |  |  |
| Physics | PH131 | 4 |  |  |  |
| Physics | PH132 | 4 |  |  |  |
| Science (PH, CM or BY) |  | 3 |  |  |  |
| *First Year Seminar\*\**  | *FY100* |  |  |  | *1 credit* |

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| Knowledge Area  |  | 3 |  |  |  |
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| Knowledge Area  |  | 3 |  |  |  |
| Knowledge Area |  | 3 |  |  |  |
| Knowledge /UNIV Course |  | 3 |  |  |  |

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|  | **Free Electives**  |
| **Title**  | **Course** | **CR** | **Term** | **Grade** | **Notes** |
| Application Electives 1\* |  |  |  |  |  |
| Application Electives 2\* |  |  |  |  |  |
| Application Electives 3\* |  |  |  |  |  |
| Application Electives 4\* |  |  |  |  |  |
| Application Electives 5\* |  |  |  |  |  |
| Free Elective  |  |  |  |  |  |
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|  |  | **EXTRA COURSEWORK (IF ANY)** |
|  **Course** | **CR** | **Term** | **GR** | **Notes** | **Course** | **CR** | **Term** | **GR** | **Notes** |
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| **\*Application ELECTIVE COURSES: (Choose 5)**  BY314; CE301, 420, 438; CH260, 330, 490; CM371, 372 EC311, 313, 350 (or 150 and 200), 357, 358, 384 EE/ME 324 EE264; EM333 ES220, 222, 223, 250, 260, 330, 340, 400, 405 ME342, 442, 443; OM331 PH221, 231, 323, 325, 331, 380, 381, 432, 451\*\*Students can take both MA451 and MA453 (2 credit each for MA major), but only one is required. Students with a Pre-teaching minor can take up to 3 credits each.**\*\*\*MA/STAT Electives Courses : (Choose 3)**  MA331 - Fourier Series & Bound. Value (pre-req: MA231&MA232, Spr)MA332 - Intermediate Differ. Eqns (pre-req: MA231&MA232, Odd Spr)STAT381 - Probability (pre-req: MA231 or MA230 (MA211 recommended)STAT382 - Mathematical Statistics (pre-req: MA/STAT381) STAT384 - Advanced Applied Statistics (MA231 & Stat 383) \*\*\* Cannot receive credits for both STAT383 and STAT389. A student may not major in both AM&S and either MA or DS.  |
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 GPA: MINOR(S):

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|  | **Applied Mathematics and Statistics** |
| **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 |  |  |  |
| Elementary Differential Equations | MA 232 | 3 |  |  |  |
| Applied Linear Algebra | MA 339 | 3 |  |  |  |
| Mathematical Modeling | MA 363 | 3 |  |  | C2 |
| Numerical Methods | MA 377 | 3 |  |  | C2 |
| Professional Experience |  MA 499 | 0 |  |  |  |
| Intro to math research or instruction\*\* | MA 451/ MA453 | 1-3 |  |  |  |
| Probability and Statistics | STAT 383 | 3 |  |  |  |
| MA/STAT Electives\*\*\*  |  | 3 |  |  |  |
| MA/STAT Electives\*\*\*  |  | 3 |  |  |  |
| MA/STAT Electives\*\*\*  |  | 3 |  |  |  |
| MA/STAT Electives\*\*\*  |  | 3 |  |  |  |