## Research Methods and Statistics – Ph.D. Course Work Plan 2019-2020

| Student: | Student #: |  |
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|          |            |  |
| Phone #· | F-mail·    |  |

| I. Morgridge College of Education                                     | Course #  | Expected Qtr. of | Credit |
|---|-----------|------------------|--------|
| Requirements  |           | Completion       | Hours  |
| A. Research (*All Required)   |           |                  |        |
| *Empirical Research Methods   | RMS 4930  |                  | 3      |
| *Introduction to Qualitative Research                                 | RMS 4941  |                  | 4      |
| *Dissertation Research (Minimum 10 credits,                           |           |                  |        |
| must register for at least 1 hr. per Fall, Winter                     | RMS 5995  |                  |        |
| & Spring after most coursework is completed                           |           |                  |        |
| until Graduation)   |           |                  |        |
| II. Program Requirements  |           |                  |        |
| A. Measurement (*All required)  |           |                  |        |
| *Psychometric Theory (Prerequisite: RMS 4910)                         | RMS 4921  |                  | 3      |
| *Factor Analysis (Prerequisite: RMS 4911, RMS 4921)                   | RMS 4924  |                  | 4      |
| *Item Response Theory (Prerequisite: RMS 4910,                        | RMS 4922  |                  | 3      |
| RMS 4921)   |           |                  |        |
| *Meta-Analysis in Social Sciences Research                            | RMS 4932  |                  | 3      |
| (Prerequisite: RMS 4911, RMS 4930, & preferred RMS 4912)              |           |                  |        |
| B. Research Methods (* required)                                      |           |                  |        |
| *Qualitative Data Collection and Analysis                             |           |                  |        |
| (Prerequisite: RMS 4941 or instructor permission)                     | RMS 4942  |                  | 4      |
| *Mixed Method Research Design (Prerequisite:                          |           |                  |        |
| RMS 4910, RMS 4930 & RMS 4941, & 1 of the following:                  | RMS 4951  |                  | 4      |
| RMS 4942, RMS 4947, or RMS 4948 or instructor permission)             |           |                  |        |
| *Research Ethics  | RMS 4952  |                  | 3      |
|   |           |                  | _      |
| * Intro to Evaluation   | RMS 4960  |                  | 3      |
| *Propensity Score Analysis (Prerequisite: RMS 4911)                   | RMS 4918  |                  | 3      |
| Structural Foundations of Research in Social                          |           |                  |        |
| Sciences  | RMS 4940  |                  | 3      |
| Choose at least one of the following:                                 |           |                  |        |
| Survey and Design Analysis (Prerequisite: RMS                         | RMS 4931  |                  | 3      |
| 4910)   |           |                  |        |
| Community Based Research (Prerequisite: RMS                           | RMS 4945  |                  | 4      |
| 4942 & RMS 4930 or instructor permission)                             |           |                  |        |
| Advanced Qualitative Research (Prerequisite:                          | RMS 4946  |                  | 4      |
| RMS 4941 & RMS 4942 or instructor permission)                         | DN4C 4047 |                  | 2      |
| Arts-Based Research (Prerequisite: RMS 4942 or instructor permission) | RMS 4947  |                  | 3      |

| Topics in Research Design (Prerequisite: RMS 4930)               | RMS 4959                   |                             |                 |
|--|----------------------------|-----------------------------|-----------------|
| C. Statistics (* required)                                       | Course #                   | Expected Qtr. of Completion | Credit<br>Hours |
| *Correlation & Regression (Prerequisite: RMS 4910)               | RMS 4911                   |                             | 4               |
| *Analysis of Variance (Prerequisite: RMS 4910)                   | RMS 4912 (or<br>PSYC 4330) |                             | 5               |
| *Multivariate Analysis (Prerequisite: RMS 4911 or RMS 4912)      | RMS 4913                   |                             | 5               |
| *Structural Equation Modeling (Prerequisite: RMS 4913, RMS 4921) | RMS 4914 (or<br>PSYC 4350) |                             | 5               |
| *Hierarchical Linear Modeling (Prerequisite: RMS 4911)           | RMS 4915                   |                             | 4               |
| *Latent Growth Curve Modeling (Prerequisite: RMS 4914)           | RMS 4916                   |                             | 4               |
| Topics in Statistics   | RMS 4919                   |                             |                 |
| III. Practicum (* required)                                      |                            |                             |                 |
| *Practicum in Research   | RMS 4980                   |                             | 3               |
| IV. Cognate (Minimum 10 credit hours)                            |                            |                             |                 |
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| Summary of Degree Requirements |            |                        |           |
|--------------------------------|------------|------------------------|-----------|
|                                | Credits    | Credits Transferred in | Credits   |
|                                | Required   |                        | Completed |
|                                | (does not  |                        |           |
|                                | include    |                        |           |
|                                | courses    |                        |           |
|                                | waived)    |                        |           |
| I. Morgridge College of        |            |                        |           |
| <b>Education Requirements</b>  |            |                        |           |
| A. Research                    | 10-17      |                        |           |
| II. Program Requirements       |            |                        |           |
| A. Measurement                 | 13         |                        |           |
| B. Research Methods            | 20-21      |                        |           |
| C. Statistics                  | 27         |                        |           |
| III. Practicum                 | 3          |                        |           |
| IV. Cognate                    | 10         | _                      |           |
| Total                          | Minimum 90 |                        |           |
|                                | hours      |                        |           |

| Student's Signature | Date: |  |
|---------------------|-------|--|
|                     |       |  |
|                     |       |  |
| Advisor's Signature | Date: |  |