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| REQUIREMENTS | SUGGESTED SEQUENCES |
| **Admission Requirements**  Candidates must satisfy all of the following:  1. **Grade point average of 3.0** (B) from all undergraduate coursework or a satisfactory score on the GRE or GMAT test.  2. **Resume** detailing work experiences and accomplishments.  3. **Personal statement** of career goals and background experiences, including an explanation of how this program will help achieve educational and professional objectives.  4. **Recommendations:** Two professional or academic recommendations received online, addressing the candidate’s potential for graduate study completion. You will provide the emails of two references, and they will be sent a link to fill out their online recommendation.  5. Candidates must possess knowledge of a **programming** language equivalent to 2 or 3 undergraduate courses.  6. Candidates must possess a knowledge of **applied statistics**. STA 610-01 or STA 610-02 can be taken to fill in deficiencies.  **Degree Requirements**  The data science and analytics (M.S.) program requires a minimum of 36 credits.  **Computing Requirements (12 credits)**   * CIS 635 Knowledge Discovery and Data Mining * CIS 660 Data Engineering * CIS 671 Information Visualization * One of the following:   + CIS 677 High-Performance Computing   + CIS 678 Machine Learning   **Statistics Requirements (12 credits)**   * STA 518 Statistical Computing and Graphics with R * STA 631 Statistical Modeling and Regression * STA 632 Statistical Modeling II * STA 526 Multivariate Data Analysis   **Professional Science Requirements (9 credits)**   * PSM 650 Ethics and Professionalism in Applied Science * PSM 662 Seminar in Professional Sci. Practice (2 credits) * PSM 691 Internship (4 credits)   **Electives Requirements (3 credits)**   * Elective (must be approved by Data Science Chair)   (CIS 661 is NOT allowed as an elective) | Two suggested course sequences are provided below – work with your advisor to design a schedule to fit your specific needs.  \*Students without necessary Computer Science background\*  **First Year** Fall CIS 500 Fundamentals of Software Practice  STA 518 Statistical Computing and Graphics with R  PSM 662 Seminar in Prof. Science Practice  PSM 691 Internship (section 10) (if you need 9 credits) Winter CIS 635 Knowledge Discovery and Data Mining  CIS 671 Information Visualization  STA 631 Statistical Modeling and Regression Summer Elective (must be approved) Second YearFall CIS 660 Data Engineering  PSM 650 Ethics and Professionalism in Applied Science  STA 632 Statistical Modeling II Winter CIS 678 Machine Learning or CIS 677  PSM 691 Internship  STA 526 Multivariate Data Analysis  \*Students without necessary Statistics background\*  **First Year** Fall CIS 660 Data Engineering  STA 610 Intermediate Applied Statistics (section 01 or 02)  PSM 662 Seminar in Prof. Science Practice  PSM 691 Internship (1 credit) (section 10)   Winter CIS 635 Knowledge Discovery and Data Mining  PSM 650 Ethics and Professionalism in Applied Science  STA 518 Statistical Computing and Graphics with R   Summer Elective (must be approved) Second YearFall CIS 671 Information Visualization  STA 526 Multivariate Data Analysis  STA 631 Statistical Modeling and Regression   Winter CIS 677 or CIS 678  PSM 691 Internship  STA 632 Statistical Modeling II |

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