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**Instructor: Dr. J. Graham**

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**Prerequisites:**

STAT 285 or STAT 280 and MATH 251 or consent of the instructor.

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**Textbook:**

*Introduction to Probability Models* (8th Edition) by: S.M. Ross; publisher: Academic Press

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**Course Description:**

Review of discrete and continuous probability models and relationships between them. Exploration of conditioning and conditional expectation. Markov chains. Random walks. Continuous time processes. Poisson process. Markov processes. Gaussian processes.

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**Outline:**

1. Review: Chapters 1,2,3
2. Discrete Time Markov Chains
3. Poisson Processes
4. Continuous Time Markov Chains
5. Monte Carlo Generation of Random Numbers
6. Some applications

**Computing requirements:**

There may be a computational component to this course; details have yet to be determined.

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**Grading:**

To be announced first day of class.

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