



Course: ENPM 600 – ENPM 600 - Probability and Stochastic Processes for Engineers  
Semester: Fall 2020  
Day(s): M  
Time: 7:00 to 9:40 PM  
Location: TBD  
Instructor: Dr. Channasandra Ravishankar  
Phone: 301-548-1943  
Email: cravisha@umd.edu

## Course Description

**Prerequisites** : ENEE324; or students who have taken courses with comparable content may contact the department

**Method of Communication with students outside classroom** : e-mail, phone or in-person after or before class

Office Hours : 1 hour after every class, 1 hour every Tuesday by phone between 6 and 7 PM; 24 hours, 7 days a week by e-mail.

**Emergency protocol** : e-mail

**Course Schedule** : Every Monday between 7:00 PM and 9:40 PM

**Statement of Course Goals** : Obtain strong fundamentals in probability theory and stochastic Processes, Become comfortable in dealing with multiple random variables and functions of multiple Random variables. Apply this knowledge to problems in engineering and communication systems.

## Required/Recommended Textbooks

- Probability, Random Variables and Stochastic Processes by A. Papoulis and U. Pillai, Fourth Edition. McGraw Hill.  
ISBN is 0-07-366011-6  
-Required? (Y/N) - Y

## Course Outline

Axioms of Probability  
Concept of a Random Variable  
Density Functions, Conditional Probability  
Functions of Random Variables  
Characteristic Functions  
Principles of Parameter Estimation  
Introduction to Stochastic Processes  
Stochastic Processes in Communication Systems



**A. JAMES CLARK**  
SCHOOL OF ENGINEERING