

**Form (H)**  
**Short course description**

Course title: <b>Probability (2)</b>	Course number and code: <b>STAT 415</b>
Previous course requirement: <b>STAT 419 +MATH 201</b>	Language of the course: <b>English</b>
Course level: <b>8 / Year 4</b>	Effective hours: <b>3(2+2+0)</b>

**Course description**

To introduce intermediate theoretical bases in the field of Probability and Mathematical Statistics
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**Course objectives**

Know how to handle a sequence of events
Know how to handle real random variables, their distributions and the expectations.
Know how to handle the bivariate case and marginal distributions
Understand the concept of conditional expectation
Understand the order statistics
Know how to handle the limit of a sequence of random variables

Learning outcomes (understanding, knowledge, and intellectual and scientific skills)

After studying this course, the student is expected to be able to:

understanding
knowledge
intellectual and scientific skills

**Textbook adopted and supporting references**

Title of the book	Author's name	Publisher's name	Date of publication
Introduction to Probability and Mathematical Statistics	Lee J. Bain and Max Engelhardt	(Duxbury Classic)	2000
Probability Essentials	Jacod, J., Protter, P.	Springer	2004