# STATISTICS 409
# "THEORETICAL PROBABILITY"

**Calendar Description:**    H(3-0)

Elementary measure theory, zero-one laws, weak and strong laws of large numbers, characteristic functions, central limit theorems and infinitely divisible distributions.

**Prerequisite**:  Mathematics 323.

## *Syllabus*

| Topics | Number of hours |
|---|:---:|
| Elementary measure theory and probability spaces | 6 |
| Zero-one laws | 6 |
| Weak and strong laws of large numbers | 6 |
| Characteristic functions | 6 |
| Central limit theorems | 6 |
| Infinitely divisible distributions | 6 |
| **TOTAL HOURS** | 36 |

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