

# STATISTICS 801-4 MATHEMATICAL STATISTICS

Spring 2005  
DAY COURSE

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*Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 604-291-3112 or csdo@sfu.ca*

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**Instructor: D. Bingham**

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**Textbook:**

*Mathematical Statistics: Basic Ideas and Selected Topics*, 2nd Edition, 2001, Bickel & Doksum

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**Calendar Description:**

Advanced mathematical statistics. A survey of basic concepts in point estimation, interval estimation, and hypothesis testing. Principles of inference.

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**Course Outline:**

Distribution theory, methods for construction of tests, estimators, and confidence intervals with special attention to likelihood methods. Properties of the procedures including large sample theory.

1. Review of probability and distribution theory. Conditiona