

# **Importance of Mathematical & Statistical Concepts & Models in today's Business and Financial World**

## **Part-I**

Have you always been fascinated by the incredible importance of mathematical and statistical concepts and models in today's business and financial world?

Do you want to turn your love of mathematics & statistics and your passion for business or entrepreneurship into an exciting career?



Studying Mathematics & Statistics for Commerce within the Department of Mathematics and Statistics will give you the tools necessary to do just that.

By following one of this degree's two stream options (Actuarial or Operations Research), you can sharpen in on what interests you most and prepare yourself for a great variety of careers following graduation.

Below is a sample list of some future choices to explore following studies in Mathematics & Statistics for Commerce.

This list is not exhaustive but it provides a solid idea of what fellow graduates have gone on to do and what potential careers Mathematics & Statistics for Commerce degree can offer.

Some options are more directly associated with specific areas of Mathematics & Statistics for Commerce than others.



- Actuary
- Blogger
- Banking Software Engineer
- Broker
- Business Advisor
- Commodities Trader
- Corporate Strategist
- Entrepreneur
- Financial Advisor
- Financial Analyst
- Financial Crimes Investigator
- Financial Mediator
- Financial Policy Advisor
- Financial Risk Analyst
- Government Agency Worker
- Hedge Fund Manager
- Insurance Product Developer
- International Security Analyst
- Investment Fund Manager

- Investment Banker
- Investment Product Developer
- Lawyer
- Legal Aide
- Magazine Contributor
- Market Researcher
- Media Correspondent
- Non-Profit Organization Director
- Operations Manager
- Payroll Manager
- Pension Fund Manager
- Professor
- Project Manager
- Researcher
- Statistician
- System Operations Researcher
- Trade Policy Analyst etc.

Some of these career choices may require additional education or preparation in the form of graduate studies, experiential education or professional formative courses and exams.

Some of the commercial banks recruiting commerce graduates:



## Part-II

**Skills Developed through Mathematics & Statistics for Commerce Degree:**

A background in Mathematics & Statistics for Commerce ensures that you develop the skills and mind set to tackle many different professional challenges. Here are just a few of the skills Mathematics for Commerce degree can help you develop:

**Core Mathematics & Statistics for Commerce Skills:**

- A strong understanding of mathematics and statistics and a general ease in applying their concepts and techniques.
- An ability to think outside of the box and link mathematical theory to everyday problems faced by businesses, organizations, corporations and government entities.
- Exposure to core commercial principles as well as business theory and the application of mathematics to business modelling.
- Understanding of various facets and elements of business in order to facilitate finding what intrigues and interests you most.

**Communication, Data Gathering and Organizational Skills:**



- Deduction of information from various sources and the ability to concentrate on relevant resources
- The ability to organize, understand and analyse sources of information and to apply novel forms of technology or new information to different professional settings and tasks
- The capacity to critically analyse problems, think creatively and make sound decisions while considering different sides of an argument
- The ability to explain complex ideas clearly to others and to apply complex theoretical concepts to everyday practice and professional dilemmas



- The skills to collect various types of information, assess them, analyse and incorporate potential linkages from different fields, put them into writing and efficiently convey your message and the goal of your work
- **Management and Teamwork:**



- The ability to interpret and analyse information presented by peers and efficiently and constructively support or challenge their proposals, theories, ideas and reports in order to achieve a project's intended and successful end result
- The capacity to lead and interact with a variety of people with different approaches and personal and professional backgrounds
- The ability to debate, persuade, mediate and present your thoughts and opinions to others, as well as the capacity to recognize and incorporate other potential solutions or applications to given problems
- The capability to identify priorities and proper courses of action, to plan the execution of tasks and to determine and delegate responsibilities to group members to most effectively carry out projects.

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