



## Department of Mathematical Sciences

### Dear Prospective Student:

It is a crucial stage of your life when you have to choose a major that will lay the foundations of your future career. We, the faculty members of the Department of Mathematical Sciences, invite you to consider majoring in Mathematics or Statistics or double-majoring in either. We would like to take this opportunity to answer the natural questions that would be occupying your mind regarding a major in Mathematics or Statistics.

#### 1. Which careers can be started with a BS in Mathematical Sciences?

An important feature of our BS programs is that they offer considerable flexibility, both within mathematics courses and courses from other departments. The student has the freedom to choose elective courses from a wide range of mathematical and inter-departmental courses. Thus, you have the chance to complete a BS in Mathematics or Statistics; or give it an interdisciplinary flavor by choosing areas closely related to Engineering, Computer Science, Management or Business Administration.

Depending on the choice of electives, the career opportunities available to our graduates include:

- Actuarial Mathematics [e.g. in banks, insurance companies]
- Computer Science [e.g. process simulations in petrochemical industries like SABIC]
- Industrial Mathematics [e.g. in ARAMCO]
- Operations Management [e.g. in banks, airlines, defense organizations]
- Research [e.g. in universities, industry]
- Teaching [e.g. in universities, colleges, schools]

#### 2. What options will be available for graduate studies?

The program is recognized internationally and the department has established itself as one of the leading mathematics departments. The flexibility of the program provides options for graduate studies. For instance, our graduates can enter MS programs in the fields of:





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- Pure and Applied Mathematics
- Computer Science
- Business Administration
- Financial Mathematics
- Industrial Mathematics
- Systems Engineering

Our graduates have been pursuing higher education in reputable institutions in Europe and the USA.

### 3. What is the level of difficulty of the program?

As with any major, to be a successful Mathematics student, you will have to work hard. The program contains basic courses as well as some challenging courses that will greatly sharpen your intellect. In the end, you will be able to exploit your potential more fully and develop techniques of thinking and discovering new ideas.

We understand that the transition from the school-level studies to the university-level studies is a difficult one. In the prep-year, we have already revised, extended and strengthened your understanding of mathematics presented at school level. The freshman year mathematics courses are designed to facilitate a smooth transition to higher-level mathematics.

### 4. What background and skills are needed to complete a Mathematics major?

A major in Mathematics requires some basic math skills and an interest in Mathematics. If you are good at Mathematics and find yourself attracted to it, then you have the basics to find Mathematics a rewarding major. Do you enjoy working out solutions rather than memorizing volumes of information? Are you methodical and imaginative? If so, then you are well suited to studying Mathematics and are invited to investigate the possibilities of a BS in Mathematics or Statistics.

**Faculty**  
**Department of Mathematical Sciences**

