

## **Licentiate in Mathematics – 6 years**

### **High School and University/College Teacher of Mathematics – 5 years**

#### **Objective**

To provide students with a sound training in the areas concerning themes of present mathematics that allows an immediate insertion in the professional activity, either in the area of abstract mathematics research or in the use of mathematical techniques to face concrete problems derived from other disciplines.

#### **Contents**

The syllabus is made up of 17 compulsory and about 3 optional subjects which can be attended in the course of 4 years. Mathematics uses the logic-deductive method to study general systems which result from the abstraction of particular systems from reality (e.g. Algebra studies whole numbers; Geometry studies the usual notion of surface). The 65% of the syllabus is made up of subjects common to the Teaching and the Licentiate courses. The licentiate in mathematics has two orientations: Pure Mathematics and Applied Mathematics; both orientations consist of a cycle of compulsory subjects linked to the orientation students choose. Apart from this cycle, students are required to make and present a Thesis in order to obtain the degree.

To get the teaching degree, students have to pass 10 compulsory subjects, obtain 15 points from optional subjects and attend 7 pedagogic subjects.

#### **Job opportunities**

Graduates normally work as teachers or researchers. They are qualified and trained to face and solve complex situations, a preparation that offers working opportunities in unconventional public and private fields, both in the production and in the administration.