

Program for the Ph.D. Degree in Mathematics

Aims of the Program

1. Providing the candidate with broad knowledge of Mathematics and mastery of a chosen branch.
2. Equipping the candidate with the ability for independent research in an active area of Mathematics.
3. Meeting the needs of the higher education institutions and research centres for highly qualified mathematicians.
4. Satisfying locally the aspirations of a growing number of holders of the M.Sc. degree in Mathematics for higher qualification.
5. Promoting the quality of all training in the department and invigorating its research activity.

Conditions for admission

In full compliance with the dictates of the regulations of the Graduate College the applicant should:

1. Hold the equivalent of an M.Sc. degree in Mathematical Sciences from King Saud University.
2. Hold a Toefl proficiency in English certificate with a score greater than or equal to 450.
3. Pass an interview held by a subcommittee of the departmental board.

Degree Requirements

1. Study for the degree is by thesis and courses.
2. The student must successfully complete a minimum of 18 credit hours of which a maximum of six can be chosen from the M.Sc. lists which he/or she hasn't previously done.
3. The student must pass a comprehensive examination to be held subject to the regulations and guidelines of the Graduate College. The examination must include Analysis, the specialization branch and a supporting branch. These branches are to be chosen with the consent of the departmental board.
4. The student must present a research thesis reflecting creativity and originality.

Study Plan

1. The plan comprises 5 channels (a) Algebra (b) Geometry and Topology (c) Analysis (d) Computational and Discrete Mathematics (e) Applied Mathematics.
2. Each student must pass the common course 690M Advanced Topics in Mathematics
3. Students in the same level in the same channel do the same courses. These are to be chosen by the department.
4. Courses are studied in two semesters as follows

First Semester

Three courses to be chosen from the channel's list and the M.Sc. lists (subject to stipulate 2 of the degree requirements).

Second Semester

Two courses from the channel's list and 690M (Advanced Topics in Mathematics).