The department offers two programs leading to the B.A. or B.S. degree. Students may major in mathematics by completing the requirements for either: Option A, Mathematics or Option B, Mathematical Sciences.

The mathematics option consists of courses offered solely by the department of mathematics and is intended for those who wish to follow a traditional mathematics career path. The mathematical sciences option consists of courses offered by the departments of computer science, mathematics and statistics, and is intended for those who opt for a career that requires the application of mathematics. The requirements for these programs are outlined below.

121 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. A complete description of College requirements for a Bachelor of Arts degree can be found on pages 101-103 of the 2007-2008 UK Bulletin.

University Studies Program Requirements

I. Math (completed by Premajor Requirement) ........................................ 0-8
II. Foreign Language (placement exam recommended) ........................... 0-8
III. Oral Communication .......................................................................... 3
IV. Written Communication ....................................................................... 0-4
V. Natural Sciences ................................................................................... 6
VI. Social Sciences .................................................................................... 6
VII. Humanities ........................................................................................ 6
IX. Cross-Cultural (choose a 300+ level Humanities course) .................... 3
X. Electives (choose two Natural Science courses) .................................... 6

USP hours: ............................................................................................. 30-42

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of the 2007-2008 UK Bulletin.

Graduation Writing Requirement Hours: ................................................ 3

College Requirements

I. Foreign Language (placement exam recommended) ............................ 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) .............. 6
   b. Social Science .................................................................................. 6
   c. Humanities (partially completed by USP Cross-Cultural Requirement) .................................................................................. 3
III. Laboratory or Field Work ................................................................... 1
IV. Electives ............................................................................................ 6

College Requirement hours: .................................................................. 16-24
Other Course Work Required for the Major

From the Major Department:
Choose one of the following: MA 361, MA 433G, MA 471G ............... 3
Choose 9 hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, CS 315/450G. A substitute sequence may be approved upon petition by the student to the Director of Undergraduate Studies. Approved courses in the mathematical sciences include those courses in computer science, engineering mechanics, mathematics, and statistics which are not of a service nature ................................................................................... 9

From Outside the Major Department
Choose 9 hours outside Mathematics at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here ........................................................................................................... 9

Other Major hours: .............................................................................. 21

Total Minimum Hours Required for Degree ..................................... 121

*Course used towards completion of a USP or College Requirement.