



The HAMPSHIRE COLLEGE

SUMMER MATHEMATICS PROGRAM

Supported by the National Science Foundation

July 5—August 14, 1971

seeks to identify talented and highly motivated secondary school students and to engage them actively in the process of mathematical thought.

Four twelve-student classes, each under the guidance of an active mathematician, will work on challenging and significant problems. Topics from topology to tessellations and optimization will be investigated, but emphasis will be placed on the methods of mathematics rather than on the accumulation of its results. Participants will be expected to analyze concrete problems, to recognize patterns and seek generalizations, to formulate critical definitions, to express their conjectures in the language of mathematics, and to apply their knowledge and insight to the development of proofs.

The daily schedule (Monday-Saturday) includes four hours of classroom work and several hours of study.

College and university mathematics students will serve as dormitory counselors and academic advisors. The entire resident faculty will join students for meals and recreational activities.

The **INSTRUCTORS** for the program are:

David C. Kelly, Director

Martin Arkowitz, Dartmouth College

Lawrence Carter, University of California

Peter D. Miletta, University of Akron

The program will also profit from projects designed by William Marsh (Hampshire College), Daniel Heisey (University of New Hampshire), and Michael Spivak.



HAMPSHIRE COLLEGE is a new, independent, experimenting, coeducational liberal arts institution. The 550 acre campus of former farmland, orchards, and woods is three miles south of the Town of Amherst in the Connecticut River Valley of western Massachusetts.

The dormitory, dining, and (air-conditioned) academic buildings of Hampshire College will serve the program, and students will have easy teletype access to the University of Massachusetts Computing Center. Students will enjoy the academic and cultural opportunities of the Five-College community.



A completed **application form** includes
the signature of a school sponsor who is willing to administer our (interesting) two-hour Selection Test. The test will be mailed to the sponsor after March 12, 1971.
the name of your current mathematics teacher from whom we shall request further information.

With the application form, please mail
a letter to the director indicating why you would like to participate in the program. Cite, if you can, specific instances of mathematical involvement.
a non-refundable \$3.00 application fee.

Candidates should feel free to send transcripts, available PSAT, SAT, or MAA scores, and other data which might help us evaluate their application.

To guarantee its consideration, mail application by March 22, 1971

Successful candidates will be notified about April 15 and will have until May 1 to indicate acceptance.

For additional application form or further information write:

David C. Kelly, NSF-SSTP
School of Natural Science
and Mathematics
Hampshire College
Amherst, Mass. 011002



In the operation of this project and in selecting individuals for participation in, and for administration of, the project, Hampshire College will not discriminate against any person on the basis of race, creed, color, or national origin.



Students graduating in Spring, 1973 or later are eligible.

Participants are not permitted to maintain a part time job or similar obligation during the six week residential program.



Each participant is expected to pay his own expenses.

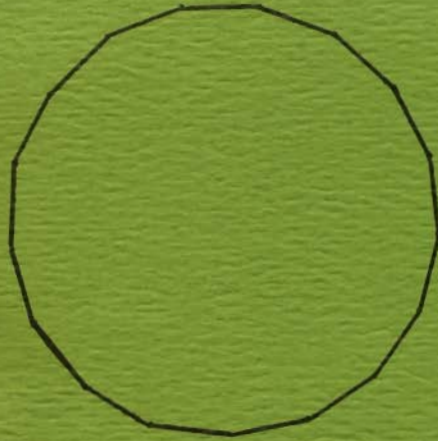
The cost for tuition and subsistence (room and board, July 5—August 14) will be \$355.00. A \$20 fee will be charged to cover the cost of special social and recreational activities. Textbooks and supplies, costing less than \$20, will be purchased by the student.

The National Science Foundation has provided a limited sum of money which can be used to help meet the expenses of students who would otherwise be unable to attend. Candidates who need to apply for financial aid should so indicate on the application form.

Admission to the Hampshire College Summer Mathematics Program will be based upon the student's qualifications, without regard to financial need.



Bulk Rate
U.S. Postage
PAID
Permit No. 3
Amherst, Mass.
Non-Profit Organization



MATHEMATICS

at HAMPSHIRE COLLEGE
Amherst, Massachusetts
July 5—August 14, 1971

A Student
Science Training
Program For
High Ability
Secondary School
Students



sponsored by the

NATIONAL SCIENCE FOUNDATION

DAVID C. KELLY, NSF-SSTP
School of Natural Science and Mathematics
Hampshire College
Amherst, Massachusetts 01002