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DULUTH--UMD has been awarded two National Science Foundation grants totaling \$81,600 for Summer Session institutes in mathematics and biology, Provost Raymond W. Darland announced today.

A grant of \$51,700 was given UMD for an institute in contemporary mathematics for secondary school teachers of mathematics. The 12 credit, 10 week institute will be held concurrently with both UMD summer terms, June 17-20 and July 22-Aug. 24.

A \$29,900 NSF grant was awarded for a five week institute for senior high school teachers of biology.

Dr. John E. Hafstrom, professor and head of mathematics and engineering at UMD, will direct the mathematics institute. He said stipends are available for 36 teachers, some of whom may also be eligible to receive dependency and/or mileage allowances.

Dr. Hafstrom said the institute is designed to prepare junior and senior high school teachers to instruct contemporary programs in mathematics which have been devised in recent years by several national study groups.

He said three courses will be given: contemporary algebra for junior high school teachers; contemporary advanced mathematics for senior high school teachers; and contemporary geometry for both teacher groups.

Dr. Blanchard Krogstad, associate professor of biology at UMD, will direct the six credit biology institute. Thirty-six teachers will be accepted and paid in the same manner as the math⁹ institute participants.

Dr. Krogstad said the biology course will center around one of the experimental teaching views produced by the Biological Sciences Curriculum Study, an NSF financed project.

Both institutes will supplement regular lectures with laboratory work, discussion sessions, field trips and talks by off-campus experts.

Teaching the mathematics institute courses will be Dr. William R. McEwen, chairman of the Division of Science and Mathematics, and Dr. Amos Nannini, assistant professor of mathematics.

Biology institute lectures will be conducted by Dr. Krogstad, Dr. Edward Flaccus, assistant professor of biology, and Donald Glittenberg, biology teacher at Lakewood, Colo. high school.

"We are delighted that UMD was chosen by the National Science Foundation to offer the mathematics and biology institutes," Provost Darland said. "They not only will serve to up-date the teachers of our area in these fields of study but also will enhance the UMD Summer Session program which is attracting more and more students annually from every state in the nation."

Application forms may be obtained after Jan.1 by writing to Dr. Hafstrom, Science-Mathematics 305, or Dr. Krogstad at Science 227, University of Minnesota-Duluth, Duluth 12. Applications must be postmarked not later than Feb. 15, 1963.