Date: April 3, 1979

To: Sheldon Wettack

From: Herbert Dershem

Subject: Goals

1. I will continue to develop the Computer Science program at Hope so
    that it can serve as a model for other small colleges.

2. I will take the lead at the national level in opening communication
    between Computer Science Departments at colleges similar to Hope and
    through this communication, provide guidance for colleges starting
    programs.

3. I will take an active role in introducing computers into elementary
    and secondary schools through the offering of workshops to teachers.

4. I will publish papers on the following topics:

    a. The new statistics computer laboratory.

    b. The volume of spheres in W-dimensional space.

    c. The modularized approach to introductory computing.

    d. The computer game of Nine-tac-toe.

    e. Computerized decision making.

5. I will prepare the following for publication:

    a. A Statistics Laboratory Manual - through CONDUIT.

    b. Introductory Computer Science Modules - through UMAP.

Attachment to Faculty Service to Hope College, January, 1978-
    January, 1979 for Herbert L. Dershem

C. SCHOLARLY ACTIVITY

    1. Scholarly Work Supported by Outside Funding

National Science Local Course Improvement Project, "A Modular
Multi-path Course in Introductory Computing."
    I developed six modules of this course during the Summer
of 1978. In addition, I wrote textual material for each of
these modules. I am currently in contact with two publishers
about publication of these modules.

"Nearest Neighbor Problems", research work at Oak Ridge
National Laboratories supported in part by a grant from
the Oak Ridge Associated Universities.

"Computers in Teaching Mathematics," co-authored with David
A. Smith, Donald McLaughlin, and Allen Ziebur, in Computers
in Undergraduate Teaching: 1977 CONDUIT State of the Art
Reports in Selected Disciplines. Work supported by NSF
grant to CONDUIT.

    2. Other Scholarly Work and/or General Professional Development

Articles authored:

"Computer science at a liberal arts college", College Curriculum
    in Computer Science, Engineering, and Data Processing,
    IEEE Computer Society, 1977, pp. 128-132.

"An experience component for undergraduate computer science
    education", SIGCSE Bulletin, 10, 1(Feb., 1978), pp. 24-26.

"Factor Game", Personal Computing, 2, 6(June, 1978), pp. 44-49.

"Introducing elementary school children to the computer",
    Calculators/Computers Magazine, 2, 6(Sept/Oct, 1978),
    pp. 69-71, with J. Whittle.

"A survey of computing in private liberal arts colleges",
    Journal for Data Education, to appear, Jan., 1979 issue.

"Recursive programming in BASIC", Personal Computing, to appear.

"A general game playing program", Personal Computing, to appear.

"Dirichlet Regions", under revision according to referees
    recommendations for Mathematics Magazine.

FACULTY SERVICE TO HOPE COLLEGE
January, 1978 – January, 1979

Name Herbert L. Dershem

A. SCHEDULED TEACHING – Courses (see notes below)

Dept. & No.	Credit Hours	Course Description	Formal Contact Hours	Other Contact	Enrollment
C.S. 100	2	*C.S. for Liberal Arts	2	0	16
C.S. 120	3	Intro. to Comp. Sci. (with Whittle & Leland)	6	0	73
C.S. 372	3	*Numerical Analysis (with Brockmeier)	3	0	17
C.S. 381	3	Data Structures	3	0	23
C.S. 490	1-3	Independent Study	0	4	4
Math 212	1 ✓	Intro. Stat. Lab	2	0	13

-FALL-

-SPRING-   On sabbatical

Notes: 1. For team-taught courses, please place an asterisk (*) before the course
            description and list other members of the team immediately under the
            course description.
        2. If this is the first time you have taught a listed course, please place
            a check (✓) before the course description.

B. ACADEMIC ADVISING

        Total Number of Advisees   14

                        Majors   8

                  Fresh./Soph.   6

C. SCHOLARLY ACTIVITY (List)

    1. Scholarly Work Supported by Outside Funding (list both project description
        and source of funding)

        See attached list.

	Academic?	Number of Students	Allowed For Credit
Supervision of independent study or research	✓	4	4
Directing a play	—	—	—
Recitals	—	—	—
Coaching Programming team	✓	4	4
Other (describe):			

2. **Administrative** (List)
   Chairman, Computer Science Department
   Project director, NSF LOCI project

3. **Board and Committee Assignments** (List)
   None

4. **Departmental Assignments** (List)
   Library liaison
   Advisor to ACM student chapter

E. PUBLIC SERVICE/CONSULTING (List)

   Series editor for statistics, CONDUIT

   Instructor in summer Quest program for the Holland Public Schools.

F. OTHER (course and curricular development, lectureships, seminars, presentations
   to high school students, etc.)

   High School talks: presented to high school students and teachers
         at Sigma Xi Science Day, Lampen Contest, Shelby
         High School, and Union City High School.

   Papers presented: "Computer science in a liberal arts college".
      IEEE-AEDS workshop on Curricula in Computer Science, Engineering,
      and Data Processing, February 2, 1973.
   "An experience component for computer science education", SIGCSE
      Symposium, February 23, 1973.
   "Nearest Nieghbor polygons", University of Tennessee Computer
      Science and Mangement Science Colloquium, March, 1973.
   Visiting Honorary Associate Professor of Computer Science,
   University of Tennessee, winter and spring quarters, 1973.
   Visiting Research Scientist, Oak Ridge National Laboratory,
   January-May, 1973.