Faculty Service to Hope College

Name <u>Herbert L. Dershem</u>

A. SCHEDULED TEACHING - Courses

	Dept. & No.	Credit Hours	Course Description	Contact Hours	Other Contact	Enroll.
SPRING SEM	CSCI 286	3	Data Structures	3	0	22
	CSCI 384	3	√Compiler Construction	3	0	13
	CSCI 491	3	Internship in CS	1	0	4
	CSCI 700	3	Computers in Education	1	0	3
	Math 260	3	Discrete Structures	3	0	7
MAY JUNE TERMS	CSCI 110	3	Computer Info Systems	3	0	10
SUM SES						
FALL SEM	CSCI 120	3	Intro to Computer Sc.	3	0	10
	CSCI 295	3	√Business Computing	3	0	25
	CSCI 386	3	Algorithms	3	0	22
	Math 100	3	√Nature of Math	3	0	26

B. ACADEMIC ADVISING

Total number of advisees 22

Majors 13

Fresh./Soph. 3

C. SCHOLARLY ACTIVITY (List)

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

   Reviewed two textbooks for Wm. C. Brown Publishers

2. <u>Other Scholarly Work and/or General Professional Development</u>

   Reviewed 4 papers for National Educational Computer Conference
   Refereed for The Wittenberg Review
   Knight Teaching Revitalization Fellowship to redesign CSCI 220
   Wrote proposal to NSF REU program for project to support undergraduate research.
   Wrote proposal to DARPA to support curriculum development

D. INTERNAL SERVICE

1. <u>Student Oriented</u>

	Check (√) Activity	Total Number of Students	# of Students Enrolled For Credit
Supervision of Independent study or research	√	3	0
Directing a Play			
Recitals			
Coaching			
Other (describe)			

2. <u>Administrative</u> (List)

   Chair, Computer Science Department

3. <u>Board and Committee Assignments</u> (List)

   Professional Interests Committee (Spring 1991)
   Financial Resources Advisory Committee (Fall 1991)
   Handbook Revision Committee

4. <u>Departmental Assignments</u> (List)

   Admissions liaison
   Internship coordinator (Fall and Summer 1991)
   Colloquium coordinator

E. PUBLIC SERVICE/CONSULTING (List)

   Consultant to Herman Miller Inc. and Abbott Laboratories

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

   Trustee Scholarship interviewer
   Science Day presenter
   Presenter at High Achievers Day sponsored by Admissions
   Holland Young Life Committee: Treasurer
   Annual Fund-Raising Banquet co-chair

Signature: _____
Date: January 12, 1992

1991
Self-Evaluation
Herbert L. Dershem

Teaching

This Fall I experienced a change of pace in my teaching and I was pleased with the results. After several years of teaching only upper-level computer science and math classes, I returned to teach introductory courses required for other majors and for core. In particular, I taught the Nature of Math course for the first time. I was very pleased with the results in that class and in fact consider it to be the crowning achievement of my teaching career. Many of the students expressed not only an appreciation of my teaching, but also a new appreciation of and a changed attitude toward mathematics. The class sessions were lively and energizing. Two of the students in the class even expressed interest in pursuing a minor in math!

Overall, the student evaluations, using the math form, were consistent with results I have obtained other years, in spite of the fact that I taught students who were taking my course as a core requirement. The student evaluations are summarized below:

Summary of Fall 1988 Evaluations

	A	A-	B+	B	B-	C+	C	C-	D+	D	GPA
Preparation	86	20	5	1	1	0	0	0	0	0	3.90
Instruction	76	24	6	4	0	0	2	0	0	0	3.79
Stimulation of Interest	59	24	13	11	2	1	1	1	0	0	3.65
Concern for Students	86	16	5	4	2	0	0	0	0	0	3.87
Overall Evaluation	89	17	5	1	1	0	0	0	0	0	3.90

Most noteworthy here is that 79% of the students gave me an overall rating of A and 94% either an A or A-. No student out of 113 rated me lower than B-.

I taught three courses that I had never taught before, two of those being inaugural offerings of the course (384 and 295).

As I have done for the last three years, I led a three-week module in the Senior Project Seminar on Computer Ethics. In this module I lead the students in lively discussion of specific scenarios and require them to write position papers on ethics issues dealing with computer science. As in other years, it was evaluated highly by the students.

Scholarship

My major efforts in scholarship were in the development of a new approach to the CSCI 220 course with support from the Knight revitalization grant. I am offering that course for the first time in the Spring 1992 semester and I am very pleased with the results of that effort.

I was also active in the writing of grant proposals. The NSF REU proposal has been (unofficially) funded and a proposal to DARPA to develop a new approach to the data structures course is still pending.

I began work on the Second Edition of the Dershem/Jipping Programming Language textbook.

Service

In the Spring semester I served on the Professional Interest Committee and the Handbook Revision Committee. During the Fall, I continued to serve on the Handbook Committee (although it did not meet during that semester) and began service on the Financial Resources Advisory Committee. I also served as a "captain" for the *Hope in the Future* campaign.

Advising

The student evaluations of my advising were good. I continued to receive favorable comments from parents regarding my advising and many students seek me out as an advisor, both officially and unofficially.

Chairmanship

I have placed my major emphasis on the development of the two junior faculty in our department. I worked closely with Shirley Browne both semesters, sitting in on her class on a regular basis and giving her critiques and suggestions with regard to her teaching. I also reviewed her assignments and examinations. In addition, I served as her assistant in the laboratory she developed for CSCI 120 during the Fall semester. I also closely observed the work of Mike Jipping during the Spring semester as I attended his Parallel Programming class and did all of the project work in there.

I drafted the course proposal for the Business Computing course after teaching it for the first time. I also led the department in the construction of our mission statement.

Review of Goals for 1991

1. Redesign the CSCI 220, Computer Science II course to integrate discrete mathematics and object-oriented programming into the topics of the course.

   This was accomplished as a result of my Knight Fellowship. I am enthusiastic about the course, but I reserve my final judgement until after its initial offering.

2. Prepare a prospectus for a textbook for the course designed in 1 above.

   I have written the prospectus and shared it with several publishers. I have decided, however, to place the writing of such a text on hold to devote time to the Second Edition of Dershem/Jipping.

3. Obtain funding for support of student research in Computer Science.

   With the funding of our REU project, the goal has been met.

Goals for 1992

1. Initiate course offerings in computer science that will serve to satisfy the college core requirements.

2. Complete the Second Edition of Dershem/Jipping.

3. Establish procedures for successfully recruiting students into the computer science program.

DRAFT

Performance Evaluation for Herbert L. Dershem
Chairperson, Computer Science
January, 1992

Effectiveness as a Teacher

It is once again exceptionally apparent to me that Herb is an
exceptional teacher. Students evaluate him very highly no matter
what evaluation instrument is used. I was particularly impressed
this past year with the evaluations Herb received in his Math 100
class. It was very evident to me that both he and his students
were excited about this class. In fact, Herb related to me that
some students from this traditionally "anti-math" student set
actually are now considering pursuing a minor in the subject.
Many of our faculty would do well to model their teaching efforts
after those of Herb Dershem.

Effectiveness as a Scholar

Herb is an effective scholar. He is an active reviewer of
professional materials for journals and textbooks and he has been
very active in seeking support for programs specific to computer
science. Effectively using the resources provided to him by Hope
College in the form of a Knight Teaching Revitalization
Fellowship to form a new basis for understanding of curricular
needs in computer science, he has written a successful NSF-REU
grant proposal and he has just recently received word that a
proposal to DARPA for curriculum development has received a
favorable review and is likely to be funded. He clearly provides
a good working model for his colleagues within the department. I
view his scholarly efforts as excellent.

Effectiveness in Service

Herb has been active on the Professional Interests Committee and
he has served as a member of the Faculty Handbook Revision Team
He has spent an enormous amount of energy on both tasks. He is a
dedicated faculty advisor to his students, and he is an
exceptionally effective chairperson. His leadership skills as
chair have helped to shape a department that, in my opinion, is
becoming one of the best departments at the college. Herb spends
considerable time working with faculty (including attending some
classes as appropriate) to insure their development as effective
teacher/scholars. It is evident to me that Herb is very active
in the community, as evidenced by the fact that Herb has been
involved in a multitude of community events.

SUMMARY PERFORMANCE RATING

			Sc	Se,T
unsatisfactory	fair	good	excellent	exceptional

James M. Gentile, Dean