Bernard Gillis Provost

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TO: FULL-SERVICE FACULTY, ADMINISTRATION, AND STUDENT GOVERNMENT

FROM: VIRGINIA PHILLIPS, SECRETARY, THE ACADEMIC SENATE
RE: MEETING OF THE ACADEMIC SENATE
WEDNESDAY, 2 APRIL 1986
ARTS AND SCIENCES AUDITORIUM, ROOM 132, DEBARTOLO HALL
4:00 p.m.

24 March 1986

AGENDA

1. Call to Order.
2. Approval of Minutes of Academic Senate of 5 March 1986 and 12 March 1986.
3. Charter and Bylaws Committee.
4. Senate Executive Committee, Report by Duane Rost.
5. Elections and Balloting Committee.
6. Reports of Other Senate Committees:

856-13 Curriculum Division, Academic Programs and Curriculum Committee (Information Report).
856-14 Student Academic Affairs Committee.
856-15 Programs Division, Academic Programs and Curriculum Committee.
856-16 Curriculum Division, Academic Programs and Curriculum Committee.
856-17 Library and Media Center Committee.
7. Unfinished Business.
8. New Business.
9. Adjournment.
Date March 12, 1936 Report Number (For Senate Use Only) 856-13

Name of Committee Submitting Report Curriculum Division; Academic Programs and Curriculum Committee
Committee Status: (elected chartered, appointed chartered, ad hoc, etc.) $\qquad$

## Appointed Chartered

Names of Committee members: M. Beaubuen, A. Viehmeyer, M. Pitman, H. Yiannaki, L. Mehri, R. Krishnan, L. Hugenberg (Chairman), and K. Kish

Please write a brief summary of the report which the Committee is submitting to the Senate: (attach complete report) The attached curriculum proposals have been approved by the UCD, circulated to the various departments, and are being presented to the University Senate: $86-46$ to $86-66,86-69,86-70,86-72$ to $86-76,86-14,86-17$, $86-27,86-67,86-68,86-71 \mathrm{a}, 86-71 \mathrm{~b}, 86-78,86-80$ to $86-83,86-85,86-87$, and
) 86-88.

Do you anticipate making a formal motion relative to the report? NO

If so, state the motion: $\qquad$
$\qquad$
$\qquad$

If there are substantive changes made from the floor in your committee recommendation, would the committee prefer that the matter be sent back to committee for further consideration? $\qquad$

Other relevant data: $\qquad$ (

86-46 Health and Physical Education
(change)
891. Community Health Internship. Supervised experience designed to provide an opportunity to plan, implement, and evaluate a program in a community health setting. Approximately 35 hours per week. Prereq.: HPE 791, 799, and Sociology 724.

12 q.h.

86-47 Business Education and Technology
(change)
513. Business Machines. Basic concepts and vocabulary of information processing. Topics include introduction to flowcharting, BASIC programming utilizing microcomputers, mictocomputer applications, and interactive processing on the mainframe computer.

4 q.h.

86-48 Business Education and Technology
(change)
710. Introduction to Data Processing. Advanced concepts and vocabulary of information processing. Topics include office automation, data communications, networking, decision support systems, hardware and software evaluation criteria, and applications utilizing structuted BASIC. Prereq.: BET 513. 4 q.h.

86-49 Business Education and Technology
(add)
826. Teaching Intensive and Cooperative Office Education. Organization, administration, implementation, and evauation of Intensive and Cooperative Office Education programs at the secondary and adult education levels. Selection, instuction, curriculum, and placement of vocational students. Also listed as ED 826. Prereq.: ED 706 and 706L. 4 q.h.

86-50 Business Education and Technology. (delete)
850. Intensive Office Education. Analysis of the organization, implementation and evaluation of vatioys vocational business and office education programs in secondary schools. Prereq.: ED 706.

3 q.h.

86-51 Business Education and Technology (delete)
851. Cooperative Office Education. Organization, administration, and supervision of cooperative office education programs in the secondary school. Selection, instuction, placement, and evaluation of studunts. Prereq.: ED:706. 3 q.h.

## 86-52 Electrical Engineering

(add)
879. Computer-Aided Design of Electrical Networks \& Systems. The design, analysis, and modeling of linear and nonlinear networks and systems using a modern computer program. Development and use of library models of devices, subcircuits, and subsystems. Prereq.: EE 701, 703, 709, and IE 642 . 4 q.h.

86-53 Industrial Engineering
(change)
642. Engineering Computations. Flow diagramming, problem layout and problem structuring for the numerical solution of elementary engineering problems on a digital computer. Engineering problems will be solved by using FORTRAN on the mainframe computer and BASIC on mocrocomputers. Prered. or concurrent: Math 572 and Physics 510.

4 a.h.

86-54 Industrial Engineering
(change)
730. Quality Control II. Tools for distinguishing between chance and assignable causes of quality variation in production processes. Introduction to the mean, standard deviation and range charts for variables and the $P$ and $C$ charts for attributes. A statistical approach to acceptance procedures. Applications of statistical process control to manufacturing operations, reliability and life testing. Prereq.: IE 620.

4 q.h.

86-55 Industrial Engineering (delete)
555. Introduction to Modern Technology. This course no longer appears il the Bulletin.

86-56 Industrial Engineering
(delete)
720. Quality Control I. The application of the methodologies of probability and statistics to the analysis of engineering data. Application of continuous and discrete probability distributions to quality data variables and atrributes respectively. Introduction to mean, standard deviation and range charts for variables. Elementary process control. Préreq.: Math 743.

4 .q.h.

86-57 Mechanical Engineering
(delete)
580. Basic Engineering Concepts. Development of skills for problem solving and the communication of results; with application exercises drawn from mechancics, chemistry and energy conversion. Disscussion and practice with the engineering design process. Ethics and professionalism. Prereq.: Math 571 and ME 501. 3 q.h.

86-58 Mechanical Engineering
(add)
680. Engineering Computer Graphics. Computer graphics as a tool for computer aided design. Programming of drawings and graphs having variable position, dimerisions and scale. Use of interactive software with $2-D$ and $3-D$ capabilities. Two hours lecture and three hours laboratory per week. Intended to compliment IE 642. Prereq.: ME 500; Prereq. or concurrent with IE 642. 3 a.h

86-59 Mechanical Engineering (change)
725. Heat TransferI. The fundamentals of heat transfer by conduction, convection, and radiation; investigations of combinations of these modes of heat transfer. Prereq. : Math 705, ME 603; CE 716; Prereq. or concurrent with IE 642.

4 q.h.

86-60 Mechanical Engineering
(change)
872. Engineering Acoustics. The nature of sound and its propagation; analysis and control of sound and noise production in mechanical equipment; trans-: mission and absorption of sound in engineering materials, ultrasonics, structural acoustics, basic measurements, and equipment. Prereq.: ME 781 4 $4 . \mathrm{h}$.

86-61 Mechanical Engineering
(add)
884. Finite Element Analysis Applied to Mechanical Engineering Design. Fundamental principles of finite element analysis with emphasis on applications to design in areas pertinent to mechanical engineering, including elasticity, vibrations, fluid mechanics, and heat transfer. Use of interactive computer software. Prereq.: ME 725, ME 751, ME 781; Prereq. or concurrent with ME 830.

4 q.h.

86-62 Administration and Secondary Education
826. Teaching Intensive and Cooperative Office Education. Organization, administration, implementation, and evaluation of Intensive and Cooperative Office Education programs at the secondary and adult education levels. Selection, instruction curriculum, and placement of vocational students. Prereq. : ED 706 and 706L.

4 q.h.

86-63 Allied Health
(add)
626. Dental Public Health Clinical Experience. Dental hygiene care in various public programs using a portable dental unit. Three hours of laboratory and/or clinical experience per week. Prereq. ; DH 625.
l q.h.

86-64 Home Economics (change)
551. Normal Nutrition I. The fundamentals of mormal nutrition as they apply to requirements for essential nutrients; contribution of food groups; selection of an adequate nutriture; importance of diet in achieving and maintaining optimum health. Prereq.: Chem. 501 or equivalent, with a grade of $C$ or better. 4 q.h.

86-65 Home Economics
(change)
551L. Nutrition Laboratory. Evaluation of diets through analysis and calculation of content in addition to computation of body fat content from anthropometric data. Four hours of laboratory a week. Prereq.: Math 551, 512 or high school equivalent; H. E. 551 (or concurrent).

2 q.h.

86-66 Home Economics
(change)
601. Principles of Food Preparation. The physical and chemical properties of food; basic principles and methods in selection, purchase and preparation. Two hours of lecture and four hours of laboratory a week. Prereq.: Math 509 or equivalent.

4 q.h.

86-69 Home Economics
(change)
609. Food Systems I: Operations. The fundamentals of food system operations including menu plamning, purchasing of foods and equipment, care of foods and equipment; efficient work methods, budget and cost control in food service departments. Prereq.: H.E. 549 and 601. . 4 q.h.

86-70 Home Economics
(change)
610. Organization and Management. Concepts of organization and management related to food service; selecting, training, and supervising personnel. Prereq.: H.E. 549.

3 q.h.

86-72 Home Economics
(change)
618. Pre-Clinical Skills. Skill development essential to health care practitioners and home ecomomists in preparing clients to assume more control over dietary and other personal life style choices. One hour lecture and three hours laboratory per week. Prereq.: H.E. 551 plus 5 hours credit in a professionally oriented field.

2 q.h.
$\therefore$ :
86-73 Home Economics
(add)
619. Food Systems I: Laboratory. Experience in selecting, training and supervising personnel; menu planning; purchasing and care of food and equipment, budget and cost control. 6 hours clinical laboratory per week. Prereq.: Bus. Tech. 580 with a grade of $C$ or better, Prereq. or concurrent with $H E 609$ and $610 . \quad 2$ q.h.

86-74 Home Economics
(change)
625. Food Beverage and Management. Managerial duties and responsibilities in setting goals; forecasting, controlling quality and costs, and establishing poli=y in the successful operation of a food and beverage department. Prereq.: HE 601.

3 q.h.

86-75 Home Economics
(change)
626. Food Service Management. Employee and client education, labor relations management, affirmative action, quality control, marketing services and development of materials and resource files for the clinical setting; computer applications. Prereq.: HE 610,611.

4 q.h.

86-76 Home Economics
(change)
628. Practicum in Dietetic Technology. Experience in supervision of food production, assisting in the assessment of the individual patient, and participating with health care professional in documentation and teaching. Student will work 21 hours at assigned facflities and complete written assignments. For placement in a hospital practicum, the student must have a 2.7 overall average. Prereq.: HE 610, 611, 626, and application filed with the instructor one quarter prior to registration in the course. application filed with the instructor one quarter prior to registration in the
$4 \mathrm{q} . \mathrm{h}$.

86-14 Nursing
(add)
641L. Concepts and Theories of Self-Care Laboratory. Application of self care framework in various clinical settings, through clinical performance and use of the nursing process. To be taken concurrently with or following N641. Three hours of laboratory per week. Prereq. or Concur: N641 l q.h.

86-17. Health and Physical Education
(add)
699. Sport in American Culture. Sport in American culture from the colonial period to the present as it relaces to such areas as aducation, literature, film and drama, minorities, politics, professional sport, religion, and urbanization.

4 q.h.

86-27 Speech Communication and Theatre
(add)
698. Understanding Communication Research. An introductory course in speech communication to prepare students to understand and utilize the results of research from qualitative and quantitative methodologies. Prereq.: Speech 530, 640, and English 551.

4 a.h.

86-67 Home Economics (change)
603. Diet Therapy. The purpose of diet therapy; policies and procedures for diet modifications; modifications; modified diet patterns in various types of settings. Four hours lecture. Must be taken concurrently with 603L. Prereq.: HE 551; Biol 552; Chem. 503; all with a grade of C or better. 4 q.h.

86-68 Home Economics (change)
603L Diet Therapy Laboratory. Application of basic principles of diet therapy; nutritional assessment; diet calculations. Two hours laboratory per week. Must be taken concurrently with HE 603.

1 q.h.

86-71a Home Economics
(change)
611. Food Systems II: Production. Standards, principles and techniques in quantity food production. Must be taken concurrently with HE 611L. Prereq.; HE 609.

2q.h.

86-71b Home Economics
(change)
611 L Food Systems: Laboratory. Application of quantity food production principles and procedures fo the preparation and service of regularly scheduled luncheons for groups in the Home Economics facilities. Nine hours of laboratory a week. Must be taken concurrently with HE 611.3 q.h.

86-78 Chemical and Metallurgical Engineering (add)
867. Fractography and Failure Analysis. Most common modes of failure of engineering materials including overloading, impact loading, fatigue, wear, and corrosion. The causes of failure are diagnosed from the study of the macroscopic and microscopic features of the fracture surfaces. Prereq.: Junior standing in engineering and MetE 741 or MetE 606.

3 q.h.

86-80 Marketing
(change)
703. Fudamentals of Marketing. The nature of marketing activity, focusing on the individual firm managing its marketing efforts and its relation to the society and the world. Topics include the development of the marketing mix,marketing situations, physical distribution, pricing, and demand analysis. Prereq.: Juniot standing.

5 q.h.

86-81 Marketing
(add)
775. Fundamentals of Shopping Centers. A general survey of the elements in the development. of planned shopping centers. The history and social significance of planned shopping centers are considered, along with their present position and future directions. Prereq.: Marketing 703. 4 q.h.

86-82 Marketing
(add)
757. Shopping Center Development. An examination of shopping centers from a marketing and development standpoint. Topics covered will include marketing strategies, site selection, promotions, tenant mix, and public relatians. Prereq.: Marketing 703. 4 q.h.

86-83 Marketing
(add)
865. Shopping Center Operations. A comprehensive review of the practices and procedures involved in the operation of shopping mall properties, including merchandising, maintenance, security, mall-tenant relations, and community relations. Prereq.: Marketing 755 or Marketing 757, or consent of instructor. 4 q.h.

86-85 Health and Physical Education
(add)
596. Foundations of Health Education. An overview of Health Education including its principles and objectives in school and community settings.

2 q.h.

86-87 Foreign Languages (Russian)
(add)
505,506. Russian Reading for Translation I, II. An introduction to Russian granmar stressing techniques of translation into English, including general, technical, and scientific texts, vocabulary, word formation, and dictionary usage to facilitate reading skills. The prerequisite for Russian 506 is Russian 505 or equivalent.
$4+4$ q.h.

86-88 Home Economics
613L Nutritional Care Laboratory. Planning therapeutic diets for patients with specitic nutritional need; diet counseling and calculations. 6 hours of clinical laboratory per week. Must be taken concurrently with HE 603. Prereq.: HE 618.

2 q.h.

COVER SHEET TO BE ATTACHED TO ALL REPORTS SUBMITTED TO THE ACADEMIC SENATE.
Date March 13, 1986
Report Number (For Senate Use Only) 856-14
Name of Committee Submitting Report Student Academic Affairs Comittee
Committee Status: (elected chartered, appointed chartered, ad hoc, etc.) Chartered

Names of Committee members: M. Demetra (student), G. Duricy (student), G. Dobbert, D. Fairman (student), H. Kim, B. Livosky, C. McBriarty, P. Mccarthy, D. Mctivermey;
M. Mitchell, F. Owens, R. Saklecha (student), T. Shipley (student), J. Simmons,
S. Sniderman, T. Wincik (student)

Please write a brief summary of the report which the Committee is submitting to
the Senate: (attach complete report) Report attached.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Do you anticipate making a formal motion relative to the report? No
If $s o$, state the motion: $\qquad$

If there are substantive changes made from the floor in your committee recommendation, would the committee prefer that the matter be sent back to committee for further consideration? $\qquad$

Other relevant data: $\qquad$
$\qquad$


Chairman (please initial)

## Student Academic Affairs Committee Report

The committee has investigated whether students. should be permitted to add classes anytime during the first week of a five-week summer term. The current "grace period" seems to represent a larger portion of the term (up to $20 \%$ ) than is permitted during ten-week terms (nominally $10 \%$ ). The question is important because of the additional burden which students who register late might bear and because of the practical difficulties which an instructor might face when trying to help a student catch up.

The committee has consulted with students, faculty, professional advisors and university officials. Findings include ( 1 ) that the number of students who add classes during the fourth or fifth day of a five-week term is small, (2) that the Fees and Charges Appeals Board had earlier ( $12 / 3 / 85$ ) recommended that the last day to add a class for a five-week summer term should be changed to the third day of the term, (3) that due to scheduling patterns the first three days of a summer term do not necessarily cover ten percent of a five-week course, and (4) that in some courses it might be impossible for a student who has missed the first $20 \%$ of the course to recover.

In the absence of clear evidence that reducing the number of days for )adding late would not create new, more intractable conditions, the committee has developed the following recommendation:

1. Faculty, advisors, the Registrar, and student academic support offices (such as Students Serving Students) should remind students (1) that adding a course after the first day of class involves a measure of academic risk, (2) that the later one adds, the more risk is involved, and (3) that the likelihood of a student missing necessary instruction is particularly acute during summer terms.
2. The University Bulletin(quarterly "Schedule of Classes") should specify the responsibility assumed by a student who adds a course late. Specifically, an appropriate warning should be inserted in the "Important Dates" page (before the 'Last Day for Class Adds and Section Changes" entry) that adding courses after the first day of class is not prudent because the student may have missed required assignments.
3. Academic departments should be encouraged to review course requirements with respect to whether late registrants are significantly disadvantaged. In such cases, departments should consider adding warning notes within the schedule of classes (e.g., "NOTE: students are advised not to add Course Code \#\#\#\# after [date]').

Date_March 14, $1986 \quad$ Report Number (For Senate Use Only) 856-15
Name of Committee Submitting Report $\frac{\text { Programs Division, Academic Programs and Curriculum }}{\text { Committee }}$
Committee Status: (elected chartered, appointed chartered, ad hoc, etc.) ___ Appointed chartered

Names of Committee members: D. Brown, A. Curry (student), M. Delos (Chairperson),
T. Deiderick, D. Henneman, R. Hoover, R. Kramer, and T. Lyons.

Please write a brief summary of the report which the Committee is submitting to the Senate: (attach complete report) Please see attached.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Do you anticipate making a formal motion relative to the report? Yes
If so, state the motion:__That the Academic Senate approve and forward the
attached recommendations to the Board of Trustees and President Humphrey.
$\qquad$
$\qquad$
If there are substantive changes made from the floor in your committee recommendation, would the committee prefer that the matter be sent back to committee for further consideration? No

Other relevant dat : $^{\text {: }}$ $\qquad$


Chairman (please initial)

PROGRAMS DIVISION

## Recommendation for Metallurgical Engineering Program

Having examined and reviewed the proposal to delete the Metallurgical Engineering Program, the Programs Division of the Academic Programs and Curriculum Committee has found that:

1. A Metallurgical Engineering Program enhances and promotes the role and purpose of Youngstown State University.
2. A Metallurgical Engineering Program appears to represent a viable and desirable option for our present and future students in light of both local and national employment and scholarship need.
a. There is a local need for a metallurgical engineering "presence." Currently, there are approximately 200 metals and materials companies in the Greater Youngstown Area.
b. Nationally, employment in metallurgical engineering is stable. Employment opportunities are available nationally for graduates.
3. Enrollment in the Metallurgical Engineering Program has dropped to untenably low levels in the past two to four years. However, prior to this period, enrollment had been adequate.
4. A Metallurgical Engineering Program can provide vital services to other programs and departments within the University.
5. Youngstown State University has the only Metallurgical Engineering Program in a state school within a 200 mile radius.

The Committee feels that it is possible that the program could be developed into a valuable part of the University with enrollments restored to acceptable levels. Accordingly, the Committee recommends the following:
I. The present Metallurgical Engineering faculty be given the opportunity to promote and develop the program and that all areas of the University assist as is appropriate with the promotion and development of this program.
2. That during Spring Quarter, 1989, the program be reassessed by the Programs Division of the Academic Programs and Curriculum Committee.
 Appointed Chartered Names of Committee members: M. Beaubien, L. Hugenberg (chairman), K. Kish, R. Krishnan, L. Mehri, M. Pitman, A. Viehmeyer, H. Yiannaki

Please write a brief summary of the report which the Committee is submitting to the Senate: (attach complete report) After following Senate approved procedure for handling an objection filed against a course proposal, the UCD is recommending approval of UCD\# 79; SCANNING ELECTRON MICROSCOPY (see attached course description). Copy of objection is attached also.

Do you anticipate making a formal motion relative to the report? YES
If so, state the motion: Move, that Senate approve UCD 非79, Scanning Electron
Microscopy.

If there are substantive changes made from the floor in your committee recommendation, would the committee prefer that the matter be sent back to committee for further consideration? $\qquad$ NO

Other relevant data:


12

868．Scanning Electron Microscopy．Theory and operation of the scanning electron microscope（SEM）and the energy dispersive x－ray analyzer．Individual term projects involve sample preparation，taking photomicrographs，and performing energy dis－ persive x－ray analysis．Two hours lecture and three hours laboratory per week． Prereq．：Junior standing in engineering and MetE 615 or MetE 606． 3 q．h．

Objection $⿰ ⿰ 三 丨 ⿰ 丨 三 八$ 1－86 February 28， 1986
From Dr．Thomas Dobbelstein，Department of Chemistry
Objection to UCD ${ }^{\text {O }} 86$－79
I must object to proposal UCD 86－79，MetE 868．Scanning Electron Microscopy． I find the concept of a $3-q . h$ ．course to provide training on the use of an analytical instrument to be unjustifiable．If＂the SEM is one of the most modern and useful research tools in the field of materials science＂，then the topic will be adequately covered throughout several other materials science courses．If additional hands－on training in the use of the SEM in the MetE program is desirable，this experience，can be more appropriately provided through
－individual research or thesis projects．

COVER SHEET TO BE ATTACHED TO ALL REPORTS SUBMITTED TO THE ACADEMIC SENATE -
Date March 19, 1986 Report Number (For Senate Use Only)
Name of Committee Submitting Report Library \& Media Center Committee
Committee Status: (elected chartered, appointed chartered, ad hoc, etc.) $\qquad$ appointed chartered

Names of Committee members: Professors: Martin E. Berger, A. James Granito, Lawrence J: Haims, Walter S. Mayhall (Chairperson), Charles S. Singler,
Phyllis Stoll, Daniel H. Suchora, Pearl E. Zehr, David C. Genaway, Floyd Jackson,

Timothy J. Lyons, Bernadette Angle, Pamela Tolliver, and Jill Christein
Please write a brief summary of the report which the Committee is submitting to the Senate: (attach complete report)

1986-87 allocation of segregated budget for library material and binding.
$\qquad$
$\qquad$
$\qquad$

Do you anticipate making a formal motion relative to the report? $\qquad$ yes

If so, state the motion: Approval of the proposed allocations
$\qquad$
$\qquad$

If there are substantive changes made from the floor in your committee recommendation, would the committee prefer that the matter be sent back to committee for further consideration?

Other relevant data: $\qquad$


The proposal is presented to the academic senate of Youngstown State University for its approval.

The proposal assumes that there will be no increase in the $\$ 725,000$ segregated funding for Library printed material and bindings.

This proposal also takes into consideration the fact that the change in the total number of University produced FIE's from 11585 in the Fall of 1984 downward to 11202.5 (a net loss of 382.5 FNE's) will not produce a significant change in any school or college allocation. In view of this, the Library Comittee recommends that the allocations to the Schools and Colleges for 1986-87 remain as they were for 1985-86.

The Library Comittee also recognizes the singular fact that year by year the formula causes the allocation of funds to the School of Engineering to decrease; and at this point in time the level of support becomes dangerously low. In addition to the losses in funding by the formula, the School of -Engineering allocation is again taxed for the reason that in past years many needed journals given to the School of "Engineering without cost will now be given with cost; adding at least a $\$ 4,000$ annual burden to their allocation.

The LibraryComittee therefore recommends that the amount allocated to replacements be reduced by $\$ 4,000$ and this amount be applied to the School of Engineering thereby establishing for that school a 1986-87 allocation of $\$ 44,587.40$.
School/College Allocation
1985-86

Proposed Allocation 1986-87

$$
580,500.00
$$

| CAST | $51,961.89$ |  | Alloc to 6 schools |
| :--- | ---: | :--- | ---: |
| A/S | $358,21.36$ |  | 584,500 |
| BA | $58,876.78$ |  | Binding |
| ENG | $44,587.40$ |  | Reneral Works |

## Proposal for Allocating Additional Funding for Library Acquisitions

If during the remainder of the current fiscal year (prior to June 30, 1986), additional money is available for Library acquisitions; and if, in the subsequent fiscal year (July 1, 1986, and beyond), an allocation in excess of $\$ 725,000$ is made, the Library Committee recommends that the additional money be allocated in the following way:

- $50 \%$ for the reference collection, to include bibliographic tools;
- $50 \%$ to the six schools/colleges, based on the percentage their 1986-87 allocation represents of $\$ 584,500$.

Given the severity of the Committee's concern in its report of December 30th to the Senate, of which the reference collection represented at least 25\% of the problem, the Committee feels the need to redress the reference problem at a speed twice that of redressing other problems that exist. We believe the above formula of $50 / 50$ achieves this goal.

