

UNIVERSITY FACULTY SENATE

SUMMARY OF THE AGENDA

May 7, 1990

- I. ADOPTION OF THE AGENDA
- II. APPROVAL OF THE MINUTES: April 2, 1990
- III. REMARKS BY PRESIDENT ROSELLE and/or ACTING PROVOST MURRAY
- IV. ANNOUNCEMENTS

1. Senate President Dilley

ANNOUNCEMENTS FOR CHALLENGE

1. Revisions of the B.S. in Recreation and Park Administration to create concentrations in:
 - a. Programming and Leadership
 - b. Parks
2. New minor in Nutrition
3. Revision of the B.S. in Human Resources: Dietetics *Interdisciplinary H.R.*
- ✓ 4. Revision of the General Home Economics Major and change in title to Interdisciplinary Studies in Human Resources Administration
5. Change of name in major in Textiles and Clothing Technology to Textile Science and revision of the major
6. Revisions of the major in Consumer Economics:
 - a. Deletion of Communications concentration
 - b. Revision of the Business concentration
7. Revisions of the major in Animal Science to create concentrations in:
 - a. Agricultural Biotechnology
 - b. Preveterinary Medicine
 - c. Applied Animal Science
 - d. General Animal Sciences
8. Revisions of the Major and Minor in Entomology
9. Revision of the B.S. in Accounting
10. Revisions of the B.S. in Business Administration
 - a. Administrative Management
 - b. Operations Management
 - c. Marketing Management
 - d. Financial Management
11. Revisions of the B.S./B.A. Major and Minor in Economics
12. Revision of the B.A. in French Education
13. Revision of the B.A. in German Education
14. Revision of the B.A. in Latin Education
15. Revision of the B.A. in Russian Education
16. Revision of the B.A. in Spanish Education

17. Revision of the B.A. in Foreign Languages and Literatures:
 - a. Russian Studies
 - b. Four Languages
 - c. Three Languages
18. Revision of the B.S. in Visual Communication
19. Revisions of the B.A. in History to create concentrations in:
 - a. European History
 - b. Global History
 - c. American History
 - d. Policy History
20. Revision of the B.A. in Art History
21. Revisions of the B.A./B.S. in Mathematical Sciences and B.S. in Statistics
22. New minor in Jewish Studies
23. Revision of the B.A. in Sociology: Data Analysis
24. New minor in East Asian Studies without Language
25. Establishment of an ESL/Bilingualism major under the already existing MA degree in Educational Studies
26. Revision to the B.S. in Physical Education Studies to create a concentration in Figure Skating Science
27. Revision to the Elementary Teacher Education Program

V. OLD BUSINESS

- A. Resolution, introduced by Senator Edward Schweizer at the March 5, 1990 Faculty Senate meeting, on race and gender equality
- B. Report on the budgetary restraints upon Library services
- C. Recommendation for the transformation of the Art Conservation Program to the Art Conservation Department
- D. Recommendation for the disestablishment of the B.S. Degree in Art Education
- E. Recommendations on the revised Affirmative Action Plan

VI. NEW BUSINESS

- A. Election of Senate officers and certain committee members and chairs
- B. Request for confirmation of committee appointments
- C. Recommendation for the establishment of an Honors Degree (B.S. in College of Arts and Science) in Biochemistry
- D. Recommendation for the establishment of an Honors Degree (B.A. in College of Arts and Science) in International Relations
- E. Recommendation for provisional approval of a new major leading to the B.A. degree in Classics Education

Page revised

21. Revisions of the B.A./B.S. in Mathematical Sciences and B.S. in Statistics (Attachment 24)
22. New minor in Jewish Studies (Attachment 25)
23. Revision of the B.A. in Sociology: Data Analysis (Attachment 26)
24. New minor in East Asian Studies without Language (Attachment 27)
- ✓ 25. Establishment of an ESL/Bilingualism major under the already existing MA degree in Educational Studies (Attachment 28)
[Note: This item was originally on the April Senate Agenda and returned to the Committee on Graduate Studies. After discussion with various interested parties, the concerns were resolved and the Department of Foreign Languages and Literatures withdrew its challenge.]
26. Revision to the B.S. in Physical Education Studies to create a concentration in Figure Skating Science (Attachment 29)
27. Revisions to the Elementary Teacher Education Program (Attachment 30)

V. Old Business

- A. Resolution, introduced by Senator Edward Schweizer at the March Faculty Senate meeting, on race and gender equality.

WHEREAS, the Administration and Faculty of the University of Delaware have confirmed their support for and a commitment to a University with gender equality and ethnic diversity, and

WHEREAS, the Administration and Faculty realize that excellence in education is achieved through a living, learning and working environment which is characterized by a diversity of culture, race, gender and style, and

WHEREAS, we believe that any social organization that discriminates on the basis of race or gender is antithetical to the mission of this University, be it therefore

RESOLVED, that the University Faculty Senate set a deadline of May 30, 1991, when fraternities, sororities and any other organization represented on this campus will either have had their local or national rules with respect to discrimination on the basis of gender and race changed or they will have severed all connections with their national organizations; and be it further





University of Delaware

UNIVERSITY FACULTY SENATE
219 McDOWELL HALL
NEWARK, DELAWARE 19716

(302) 451-2921
(302) 451-2922

April 24, 1990

TO: All Faculty Members

FROM: Robert J. Taggart, Vice President *Robert J. Taggart*
University Faculty Senate

SUBJECT: Regular Faculty Senate Meeting, May 7, 1990

In accordance with Section IV, paragraph 6 of the Constitution, the regular meeting of the University Faculty Senate will be held on Monday, May 7, 1990 at 4:00 p.m. in room 110 Memorial Hall.

AGENDA

- I. Adoption of the Agenda.
- II. Approval of the minutes of the Senate meeting of April 2, 1990.
- III. Remarks by President Roselle and/or Acting Provost Murray.
- IV. Announcements
 1. Senate President Dilley

Announcements for Challenge

 1. Revisions of the B.S. in Recreation and Park Administration to create concentrations in: (Attachment 4)
 - a. Programming and Leadership
 - b. Parks
 2. New minor in Nutrition (Attachment 5)
 3. Revision of the B.S. in Human Resources: Dietetics (Attachment 6)
 4. Revision of the General Home Economics Major and change in title to Interdisciplinary Studies in Human Resources Administration (Attachment 7)
 5. Change of name in major in Textiles and Clothing Technology to Textile Science and revision of the major (Attachment 8)

6. Revisions of the major in Consumer Economics: (Attachment 9)
 - a. Deletion of Communications concentration
 - b. Revision of the Business concentration
7. Revisions of the major in Animal Science to create concentrations in: (Attachment 10)
 - a. Agricultural Biotechnology
 - b. Preveterinary Medicine
 - c. Applied Animal Science
 - d. General Animal Sciences
8. Revisions of the Major and Minor in Entomology (Attachment 11)
9. Revision of the B.S. in Accounting (Attachment 12)
10. Revisions of the B.S. in Business Administration (Attachment 13)
 - a. Administrative Management
 - b. Operations Management
 - c. Marketing Management
 - d. Financial Management
11. Revisions of the B.S./B.A. Major and Minor in Economics (Attachment 14)
12. Revision of the B.A. in French Education (Attachment 15)
13. Revision of the B.A. in German Education (Attachment 16)
14. Revision of the B.A. in Latin Education (Attachment 17)
15. Revision of the B.A. in Russian Education (Attachment 18)
16. Revision of the B.A. in Spanish Education (Attachment 19)
17. Revisions of the B.A. in Foreign Languages and Literatures: (Attachment 20)
 - a. Russian Studies
 - b. Four Languages
 - c. Three Languages
18. Revision of the B.S. in Visual Communication (Attachment 21)
19. Revisions of the B.A. in History to create concentrations in: (Attachment 22)
 - a. European History
 - b. Global History
 - c. American History
 - d. Policy History
20. Revision of the B.A. in Art History (Attachment 23)

- F. Recommendation for provisional approval of a new major in Applied Nutrition leading to the B.S. degree in Human Resources
- G. Recommendation for provisional approval of a new major leading to the B.A. degree in History and Foreign Languages
- H. Recommendation for provisional approval of a new degree in Master of Music in Performance
- I. Report on final examinations
- J. Recommendations on curriculum and academic organization approval processes
- K. Resolution in support of the University of Delaware accepting membership in the North Atlantic Conference
- L. Recommendation altering the membership of the Committee on Undergraduate Studies
- M. Recommendation for the creation of a new standing committee of the University Faculty Senate
- N. Introduction of new business.

RESOLVED, that we request each fraternity, sorority and other organizations to state by September 30, 1990, agreement to comply with this policy. In the event that an organization states that it will not or cannot comply with the May 30, 1991 deadline, that organization will cease to exist on May 30, 1991 as a recognized affiliate of the University of Delaware.

- B. Report on the effects of budget adjustments to the Library from the Library Committee, James Morrison, Chairperson.
- C. Recommendation from the Coordinating Committee on Education (L. Goldstein, Chairperson), for the transformation of the Art Conservation Program to the Art Conservation Department. (Attachment 31)

WHEREAS, the Faculty Senate approved the creation of the Art Conservation Ph.D. Program in 1989, and

WHEREAS, the faculty who teach in this program do not constitute a department and do not hold appointments on tenurable lines, therefore be it

RESOLVED, that the Art Conservation Program become the Department of Art Conservation.

- D. Recommendation from the Committee on Undergraduate Studies (H. Hall, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for the disestablishment of the B.S. Degree in Art Education. (Attachment 32)
[Note: This item was originally on the February Senate Agenda and returned to the Committee on Undergraduate Studies. After discussion with various interested parties, the concerns were resolved.]

RESOLVED, that the Faculty Senate approves the disestablishment of the B.S. degree in Art Education.

- E. Recommendation from the Ad Hoc Committee to Review the Affirmative Action Plan, (R. Warren, Chairperson).

RESOLVED, that the recommendations of the Ad Hoc Committee to Review the Affirmative Action Plan represents the sense of the Faculty Senate and that the Committee's report be referred to the Committee on Diversity and Affirmative Action for its assessment of actions that the Senate might take or propose to the University as a whole to implement the recommendations.

VI. NEW BUSINESS

- A. Election of Senate officers, ^{two} ~~one~~ member of the Committee on Committees and Nominations, and one member of the Rules Committee.

[Note: A slate of nominees prepared by the Committee on Committees and Nominations, (J. Olson, Chairperson), is presented in Attachment 1. Biographies of the nominees are attached as Attachment 2. Senators are reminded that additional nominations may be made from the floor and that senators making such nominations are responsible for determining that a nominee would serve if elected.]

- B. Request from the Committee on Committees and Nominations (J. Olson, Chairperson), for Senate confirmation of committee appointments. (Attachment 3)

RESOLVED, that the appointments to Senate committees and the appointments of Senate committee chairpersons, as presented in Attachment 3 of this Agenda, are hereby confirmed.

- C. Recommendation from the Committee on Undergraduate Studies (H. Hall, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for the establishment of an Honors Degree (B.S. in College of Arts and Science) in Biochemistry. (Attachment 33)

RESOLVED, that the Faculty Senate approves the establishment of an Honors Degree in Biochemistry (B.S. in College of Arts and Science), effective immediately.

- D. Recommendation from the Committee on Undergraduate Studies (H. Hall, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for the establishment of an Honors Degree (B.A. in College of Arts and Science) in International Relations. (Attachment 34)

RESOLVED, that the Faculty Senate approves the establishment of an Honors Degree in International Relations (B.S. in College of Arts and Science), effective immediately.

- E. Recommendation from the Committee on Undergraduate Studies (H. Hall, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for provisional approval of a new major leading to the B.A. degree in Classics Education. (Attachment 35)

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a Bachelor of Arts degree in Classics Education, effective immediately.

- F. Recommendation from the Committee on Undergraduate Studies (H. Hall, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for provisional approval of a new major in Applied Nutrition leading to the B.S. degree in Human Resources. (Attachment 36)

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new major in Applied Nutrition leading to the Bachelor of Science degree in Human Resources, effective immediately.

- G. Recommendation from the Committee on Undergraduate Studies (H. Hall, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for provisional approval of a new major leading to the B.A. degree in History and Foreign Languages. (Attachment 37)

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new major leading to the B.A. degree in History and Foreign Languages, effective immediately.

- H. Recommendation from the Committee on Graduate Studies (R. Exline, Chairperson), with the concurrence of the Coordinating Committee on Education (L. Goldstein, Chairperson), for provisional approval of the Master of Music in Performance. (Attachment 38)

WHEREAS, there is presently no graduate degree program in music in Delaware available to teachers of music or to others preparing for careers in that field, and

WHEREAS, implementation of the proposed Master of Music in Performance will require no new faculty lines, therefore be it

RESOLVED, that the University Faculty Senate approves provisionally, for four years, the implementation of the Master of Music in Performance effective as soon as possible.

- I. Report from the Committee on Undergraduate Studies (H. Hall, Chairperson) on final examinations. (Attachment 39)
- J. Recommendations from the Faculty Senate Executive Committee on the curriculum and academic organization approval processes. (See Trustee Bylaws pages B-11 and B-12, Section II, paragraphs C. 2 and D. 2.)

MAJOR CHANGES IN CURRICULUM OR ACADEMIC ORGANIZATION

1. RESOLVED, that the following policy be implemented effective September 1, 1990:

1 When a change (creation, deletion, alteration or
2 transfer) of an academic department, division or
3 college, or of an administrative office directly
4 concerned with academic matters, is being proposed,
5 except for alterations which are merely minor (such
6 as changes in title), the Coordinating Committee on

Education will ensure (1) that a public hearing is held to consider the impact of the proposed change on academic programs of the University, and (2) that information on the budgetary implications of the proposed change has been provided before it brings the matter to the Senate floor for action.

When a new degree program or new level of any existing degree program is being proposed (for example, the change from a minor to a major), the Coordinating Committee on Education will ensure (1) that a public hearing has been held by the appropriate Senate Committee, and (2) that adequate information on the budgetary implications of the new program has been provided. Adequate budget information must include personnel costs, library and computer costs, and capital costs (both new facilities and renovation of old facilities).

CALENDAR FOR CONSIDERING DEGREES IN CURRICULUM OR ACADEMIC ORGANIZATION

2. RESOLVED, that the following calendar be used for the consideration of changes in curriculum and changes in academic organization directly concerned with academic matters:

Proposals to change the structure of academic offices directly concerned with academic matters or proposals to create new degree programs or new levels of existing degree programs must reach the office of the University Faculty Senate by January 1 if they are to be adopted for consideration by the Board of Trustees at their meeting in May. No such program will be adopted by the Faculty Senate later than its March meeting.

Other proposals of lesser status such as new minors, slight changes in existing degrees, new majors with existing degree programs, and such other items which would be considered merely "items for challenge" will continue to be discussed whenever they reach the Senate floor.

(Explanatory Note: The regular spring meeting of the Education and Training Committee takes place in early April. The agenda of that Committee is distributed well in advance of that meeting, and thus an April passage by the Senate is too late to be considered.

The Education and Training Committee's actions need to be reviewed by the Executive Committee of the Board of Trustees. This year the Executive Committee meets on April 23; the Board of Trustees' spring meeting is on May 16.

The practical effect of this timetable is that certain proposals coming from departments and colleges must receive approval by whatever procedures the college has by the end of the first semester. This may very well require that a major proposal coming from a department may have to clear the department in the spring of the previous semester.)

- K. Resolution from the Committee on Student Life, (R. Spacht, Chairperson), in support of the University of Delaware accepting membership in the North Atlantic Conference.

WHEREAS, the East Coast Conference has had significant change in member schools in recent years with the departure of American University, LaSalle College, St. Joseph's University, Temple University, and West Chester University, and

WHEREAS, Bucknell University, Lafayette College and Lehigh University will terminate membership in the East Coast Conference on July 1, 1990, and Drexel University will terminate its membership on July 1, 1991, and

WHEREAS, the future viability of the East Coast Conference as a strong academically-oriented athletic conference has been jeopardized by the departure of the indicated member institutions, and

WHEREAS, the ability to compete in NCAA regional and national championship events by University of Delaware athletes would be reduced by the changed and reduced membership of the East Coast Conference, and

WHEREAS, new membership invitations have been extended, or are intended to be extended to schools not of a similar academic or athletic philosophy as the University of Delaware, and

WHEREAS, the University of Delaware has been offered membership in the North Atlantic Conference, an affiliation group whose membership is characterized by state university designation and/or land-grant institutions and

WHEREAS, the members of the North Atlantic Conference have similar academic and athletic philosophies as the University of Delaware, and

WHEREAS, membership in the North Atlantic Conference will continue to insure eligibility for University of Delaware athletic teams and their members to compete in NCAA regional and national championships, and

WHEREAS, the University of Delaware Athletic Governing Board and Board of Trustee Committee on Physical Education, Athletics and Recreation investigated extensively all possible athletic conference affiliations, and

WHEREAS, status as an independent school athletically would be detrimental to providing a quality intercollegiate athletic experience, and

WHEREAS, the intercollegiate athletic program has taken and will continue to take all necessary steps to insure the academic integrity of University of Delaware athletes, therefore be it

RESOLVED, that the University of Delaware Faculty Senate concurs with the Committee on Student Life and supports the membership change of the University of Delaware athletic program from the East Coast Conference to the North Atlantic Conference which shall be effective July 1, 1991.

- L. Recommendation from the Committee on Committees and Nominations (J. Olson, Chairperson), for a modification of the membership to the University Faculty Senate Committee on Undergraduate Studies.

WHEREAS, the Committee on Undergraduate Studies has the specific charge that it "shall recommend...the undergraduate educational and academic admission policies" and currently this committee has no representation from admissions, and

WHEREAS, it is desirable to keep the current size and balance of this committee, be it therefore

RESOLVED, that the charge to the Committee on Undergraduate Studies, as it appears in Section I, I-22, paragraph 4, of the Faculty Handbook, shall be changed to read as follows:

This committee shall consist of the Vice President for Academic Affairs or his/her designee¹; the Dean of Admissions or his/her designee²; the University

¹Section added.

²Section added.

Registrar or his/her designee³; three faculty members from the College of Arts and Science (if feasible, one from natural sciences and mathematics, one from arts and humanities, and one from social and behavioral sciences) and one faculty member from each other undergraduate college, one of whom shall be chairperson; one representative of the Committee on Graduate Studies; **and⁴ three undergraduate students [the University Registrar; and the Assistant Registrar for Scheduling and Registration]⁵.**

- M. Recommendation from the Committee on Committees and Nominations (J. Olson, Chairperson) for the creation of a new standing committee of the University Faculty Senate.

WHEREAS, issues of diversity and affirmative action are of ongoing interest to the faculty and to this institution, and

WHEREAS, the faculty has the responsibility to advise, formulate policy and recommend practice on these issues, be it therefore

RESOLVED, that the following charge to the Committee on Diversity and Affirmative Action be approved by the Faculty Senate and that it be added to Section I, I-13, of the Faculty Handbook, effective immediately.

This committee shall review all University policies and practices pertaining to diversity and affirmative action in the recruiting and retaining of students, staff and faculty. The committee shall submit an annual report in May evaluating the status of policies and practices. It shall recommend statements of goals, policies and practices for consideration by the University community and the Senate whenever changes in these functions are needed.

The committee shall consist of five faculty members who shall serve three-year terms, one of whom shall be appointed chair by the Committee on Committees and Nominations, one graduate student who shall serve a two-year term, two undergraduates who shall serve two-year terms, and the Vice President for Employee Relations or his/her designee. Initial appointments shall be staggered to insure continuity on the committee.

³Section added.

⁴Word added.

⁵Section deleted.

- N. Such items as may come before the Senate. (No motion introduced at this time may be acted upon until the next meeting of the Senate.)

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Attachments: Committee Activities Report

1. Slate of nominees
2. Biographies of nominees
3. Committee appointments
4. B.S. in Recreation and Park Administration
5. Minor in Nutrition
6. B.S. in Human Resources: Dietetics
7. Revision of the General Home Economics Major
8. Change of name in major in Textiles and Clothing Technology
9. Revisions of the major in Consumer Economics
10. Revisions of the major in Animal Science
11. Revisions of the Major and Minor in Entomology
12. Revision of the B.S. in Accounting
13. Revisions of the B.S. in Business Administration
14. Revisions of the B.S./B.A. Major and Minor in Economics
15. Revision of the B.A. in French Education
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18. Revision of the B.A. in Russian Education
19. Revision of the B.A. in Spanish Education
20. Revision of the B.A. in Foreign Languages and Literatures
21. Revision of the B.S. in Visual Communication
22. Revisions of the B.A. in History
23. Revision of the B.A. in Art History
24. Revisions of the B.A./B.S. in Mathematical Sciences and B.S. in Statistics
25. Minor in Jewish Studies
26. Revision of the B.A. in Sociology: Data Analysis
27. Minor in East Asian Studies without Language
28. Establishment of a ESL/Bilingualism major
29. Revision to the B.S. in Physical Education Studies
30. Revisions to the Elementary Teacher Education Program
31. Transformation of the Art Conservation Program
32. Disestablishment of the B.S. Degree in Art Education
33. Honors Degree in Biochemistry
34. Honors Degree in International Relations
35. Major in Classics Education
36. Major in Applied Nutrition
37. Major in History and Foreign Languages
38. Master of Music in Performance
39. Report from the Committee on Undergraduate Studies

COMMITTEE ACTIVITIES REPORT

Academic Appeals, Committee on (William L. Nichol)

No business presently before the committee.

Budget and Space Priorities, Committee on (L. Leon Campbell)

Reviewing the proposed 91-92 budget with the University Budget Council.

Committees and Nominations, Committee on (Jon Olson)

1. Senate committee membership
2. Senate office nominations
3. Charge to Undergraduate Studies Committee--membership alteration
4. Charge for Committee on Diversity and Affirmative Action

Faculty Welfare and Privileges, Committee on (Gordon J. DiRenzo)

1. Committee mandate
2. Retirement Program
3. Professional Development Accounts
4. Academic Freedom Issues

Graduate Studies, Committee on (Ralph V. Exline)

1. A proposal to grant permanent status to the M.S. degree in Vocational Studies.
2. Updating, revision, and clarification of wording of items in the Policy and Procedures Manual of the Graduate Studies Office.
3. A proposal to establish a limited number of graduate fellowships specifically for returning adult students.
4. Revision of the Graduate Student Judicial System (in coordination with the Student Life Committee).

Library Committee (James L. Morrison)

1. Long-term goals for the Library
2. Analyzing impact of budget reductions proposed
3. Capital budget for technology

Student Life, Committee on (Roger Spacht)

1. There will be continued discussion and further research into the topic of plagiarism on campus. It is evident that a change in current policy may be necessary.
2. The committee continued with the freedom of inquiry issue regarding the situation which began with the Blue Hen Handbook. The committee will be sending a full report to President Dilley.
3. The committee began initial discussion of the resolution presented by Dr. Schweizer. Before the completion of any report or response to the resolution, legal consultation is being requested through Mr.

Loessner's office. A response from that office should be forthcoming prior to the May meeting of the Faculty Senate.

4. A resolution supporting the addition of the University to the North Atlantic Conference for intercollegiate athletics will be presented at the May meeting.
5. The committee received preliminary information regarding the drug and alcohol issue raised by Mr. Oberle, Attorney General for Delaware. Dr. Brooks will be asked to seek legal consultation prior to further discussion.

SLATE OF NOMINEES FOR ELECTED POSITIONS

VICE PRESIDENT AND CHAIRPERSON OF COORDINATING COMMITTEE ON EDUCATION

Kenneth M. Lomax	Agricultural Engineering
Stanley I. Sandler	Chemical Engineering

SECRETARY

Roger L. Cox	English
Michael Keefe	Mechanical Engineering

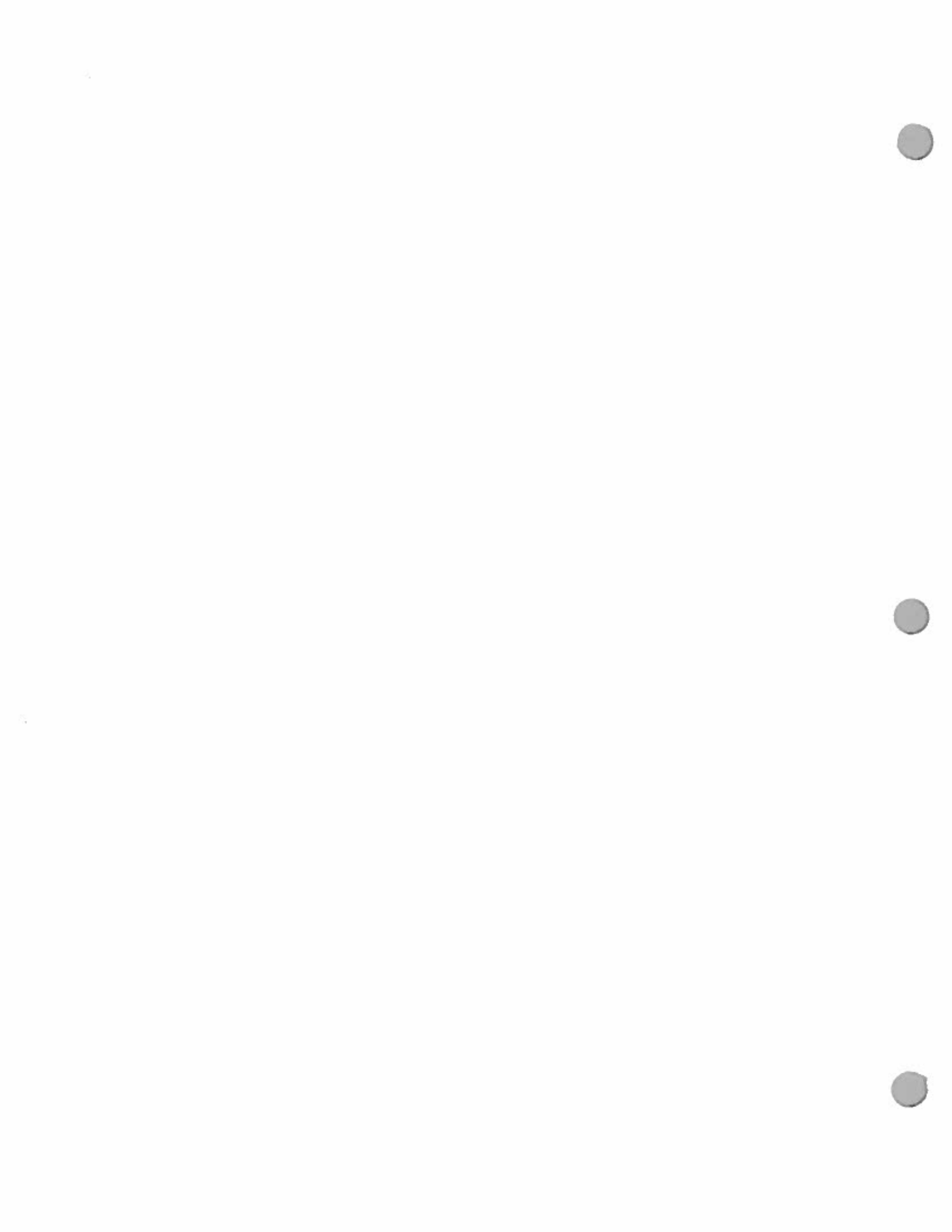
MEMBER, COMMITTEE ON COMMITTEES AND NOMINATIONS

Frank B. Dilley	Philosophy
William F. Ritter	Agricultural Engineering

MEMBER, COMMITTEE ON RULES

John J. Beer	History
James L. Morrison	Textiles, Design and Consumer Economics

/wc



VICE PRESIDENT

NAME: Lomax Kenneth M. DEPARTMENT: Agricultural Engg.
 Last First Middle Initial
 RANK: Associate Professor DATE OF HIRE (FULL-TIME): 1980

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☒ YES ☐ NO
 IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)		
COMMITTEE NAME	ACADEMIC YEAR	
1. Physical Planning and Utilization	1982-83	Member
2. Physical Planning and Utilization	1985-86	Chair
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

University Faculty Senator, 1982-84 and 1989-91
 COPE Task Force, Mechanical Engineering Department, 1984
 COPE Task Force, Admissions Department, 1987

NAME: Sandler Stanley I. DEPARTMENT: Chemical Engineering
 Last First Middle Initial
 RANK: H. B. DuPont Professor DATE OF HIRE (FULL-TIME): 1967

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☒ YES ☐ NO
 IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)		
COMMITTEE NAME	ACADEMIC YEAR	
1. Budget and Space	1989-	Member
2. Cte. on Ctes.	70's-80's	Chair/Member
3. Library Committee	70's-80's	_____
4. Coord. Cte. on Educ.	70's-80's	_____
5. Graduate Studies Cte.	70's-80's	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

Other University of Delaware Activities:

Department Chair, Chemical Engineering, 1982-1986
 Organizer of Science and Engineering Chair Caucus
 On the following search committees:
 Chair for Electrical Engg. (Chair) 1985
 Chair for Chemistry Dept. (Chair) 1985
 Provost (Member) 1988

Project Vision Task Force on Research and Graduate Educ. (Member) 1988
 University Faculty Senator 1988-
 University Faculty Senator in 1970's

SECRETARY

NAME: Cox Roger L. English DEPARTMENT: Mechanical Engg.
Last First Middle Initial
 RANK: Professor DATE OF HIRE (FULL-TIME): 1971
 DATE OF HIRE (FULL-TIME): 1985

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☒ YES ☐ NO

IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

COMMITTEE NAME	ACADEMIC YEAR	IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)
1. Senator	1987-89	
2. Cte. on Committees and Nominations	1989-90	Member
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

NAME: Cox Roger L. English DEPARTMENT: Mechanical Engg.
Last First Middle Initial
 RANK: Professor DATE OF HIRE (FULL-TIME): 1971
 DATE OF HIRE (FULL-TIME): 1985

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☒ YES ☐ NO

IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

COMMITTEE NAME	ACADEMIC YEAR	IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)
1. Committee on Promotions and Tenure	1987-89	Member/Chair
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

Search Committee for Graduate Dean ca. 1980 (Member)

MEMBER COMMITTEE ON RULES

NAME: Beer John J. First Middle Initial Last DEPARTMENT: History Textiles, Design & Consumer Econ.

NAME: Morrison James L. First Middle Initial Last DEPARTMENT: Textiles, Design & Consumer Econ.

RANK: Associate Professor DATE OF HIRE (FULL-TIME): 1961

RANK: Professor DATE OF HIRE (FULL-TIME): 1971

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☒ YES ☐ NO

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☐ YES ☐ NO

IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)		
COMMITTEE NAME	ACADEMIC YEAR	
1. Student Life	1984-88	
2. Nominating Cts.	1986-88	
3. Several COPE Ctes.		
4. Academic Freedom	?	
5.		
6.		
7.		
8.		
9.		
10.		

IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)		
COMMITTEE NAME	ACADEMIC YEAR	
1. Cte. on Committees	1983-84	Member
2. Library Committee	1988-90	Member/Chair
3. Undergraduate Studies	1988-89	Chair
4. Rules Committee	1987-88	Chair
5. Coord. Cte. on Educ.	1988-90	Member
6. Executive Committee	1987-88	Secretary
7.		
8.		
9.		
10.		

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

I will be on sabbatical Fall 1990.

MEMBER
COMMITTEE ON COMMITTEES AND NOMINATIONS

NAME: Dillev Frank B. DEPARTMENT: Philosophy
Last First Middle Initial
RANK: Professor DATE OF HIRE (FULL-TIME): 1967

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☒ YES ☐ NO
IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

		IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)	
COMMITTEE NAME	ACADEMIC YEAR		
1. Cte. on Ctes.		Chair	
2. Cultural Activities		Chair (twice), member	
3. Performing Arts		Chair	
4. Visiting Scholars		Chair (twice)	
5. Coord. Cte. on Educ.		Member	
6. Educ. Innov. & Planning		Member	
7. Nominating Cte.		Member	
8. Undergrad. Admissions		Member	
9. Undergrad. Records		Member	
10. Undergrad. Studies		Member	

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

Currently President, University Faculty Senate (in second term).

NAME: Ritter William F. DEPARTMENT: Agricultural Engg.
Last First Middle Initial
RANK: Professor DATE OF HIRE (FULL-TIME): 1971

HAVE YOU SERVED ON A SENATE COMMITTEE(S) IN THE PAST? ☐ YES ☐ NO
IF YOU ANSWERED "YES," PLEASE COMPLETE THE FOLLOWING:

		IN WHAT CAPACITY (MEMBER, CHAIRPERSON, ETC.)	
COMMITTEE NAME	ACADEMIC YEAR		
1. Research Cte.	1975-77	Member	
2. Undergraduate Studies	1979-81	Member	
3. Faculty Senator	1981-83		
4. Coord. Cte. on Educ.	1984-86	Member	
Ad Hoc Cte. on Credit by Examination	1979-80	Chair	
5. Cte. on Ctes.	1982-84	Member	
Undergrad. Admissions and Standing	1984-86	Chair	
6.			
7.			
8.			
9.			
10.			

PLEASE USE THIS SPACE FOR ANY COMMENTS YOU MAY HAVE CONCERNING YOUR QUALIFICATIONS FOR THIS POSITION.

I have served as Chairman of the College Promotions and Tenure Committee (twice) and the College Safety Committee---plus a member of other College committees.

APPOINTMENTS FOR CONFIRMATION

ACADEMIC APPEALS, CTE. ON

Member & chair: E. Naudain Simons
 Member: Mary Ann Rapposelli
 Member: Michael Zinn

CULTURAL ACTIVITIES AND PUBLIC
EVENTS, CTE. ON

Chair: Hilton Brown
 Member: Sally L. VanOrden
 Member: Janice Bibik
 Member: Hans Peter Breuer
 Member: Harris Ross

EDUCATION, COORDINATING COMMITTEE ON

Member: Richard Fischer

FACULTY WELFARE AND PRIVILEGES,
COMMITTEE ON

Chair: Gordon J. DiRenzo
 Member: Robert Stark
 Member: Gordon Bonner
 Member: Kenneth Eckhardt
 Member: David Sheppard

GRADUATE STUDIES, COMMITTEE ON

Chair: Anthony Dalrymple
 Member: Raymond Callahan
 Member: James Hiebert
 Member: Joanne Ryan

INSTRUCTIONAL, COMPUTING, AND
RESEARCH SUPPORT SERVICES, CTE. ON

Member: John Frett
 Member: John Courtright
 Member: James Kent
 Member: Robert Wilson

INTERNATIONAL STUDIES, CTE. ON

Chair & member: Barbara Viera
 Member: Alfred Wedel
 Member: James Nathan

LIBRARY COMMITTEE

Chair: James Morrison
 Member: Palaniappa Krishnan
 Member: Linda Pellecchia
 Member: David Durkee
 Member: Carolyn Freed

PROMOTIONS AND TENURE, CTE. ON

Chair: John Wehmiller
 Member: Russell Settle
 Member: Milton Stetson
 Member: Douglas Tallamy

RESEARCH, COMMITTEE ON

Chair: Michael Klein
 Member: Robert Neeves
 Member: Carroll Izard
 Member: Ronald Karlson
 Member: Dallas Hoover

RETIRING, RETIRED AND EMERITI
FACULTY, SUBCOMMITTEE ON

Chair: Robert Stark
 Member: Marvin Brams
 Member: Irvin Wisniewski

STUDENT AND FACULTY HONORS, CTE. ON

Chair: U. Carl Toensmeyer
 Member: Cara Fries
 Member: Ralph Cope
 Member: Richard E. Laughlin
 Member: Mary Ann Miller

STUDENT LIFE, COMMITTEE ON

Chair: Daniel Shade
 Member: David Frey
 Member: Margaret Hassert

UNDERGRADUATE STUDIES, CTE. ON

Chair: Harrison Hall
 Member: Theodore Braun
 Member: David Ingersoll
 Member: John Kmetz
 Member: Michael Keefe



COLLEGE: PHYSICAL EDUCATION, ATHLETICS AND RECREATION
 DEPARTMENT: PHYSICAL EDUCATION
 DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION
 MAJOR: RECREATION AND PARK ADMINISTRATION
 CONCENTRATION: ~~PARKS AND RECREATION~~ Programming and Leadership

PAGE 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL	TYPICAL	TYPICAL	TYPICAL
		FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
		COMPLETES	COMPLETES	COMPLETES	COMPLETES

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

NINE Area A - Communication Skills **A MINIMUM OF*
 Six credits from the following: English (except literature), Speech/Communication, Foreign Languages and Literatures (except literature) and EDS 521.

Writing Course

A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. Appropriate writing courses are normally designated in the semester's Registration Booklet at "Satisfies Arts and Science second writing course".

Area B - Humanities and Fine Arts *

A MINIMUM OF Six credits from the following:
 Art, Art History, English (literature), Languages and Literature (literature), Philosophy Music and Theatre. In addition specific courses from the College of Human Resources (Department of Textiles, Design and Consumer Economics).

Area C - History and Social Science *

A MINIMUM OF Nine credits from at least two of the following:
 Anthropology (except physical), Black American Studies, Criminal Justice, Economics, History, Political Science, Psychology, Sociology and Women's Studies. In addition, courses from the College of Human Resources in Individual and Family Studies may be selected.

Area D - Mathematics, Natural and Biological Sciences *
 M xxx Mathematics course

A MINIMUM OF Nine credits from at least two of the following:
 Anthropology (physical), Biology, Chemistry, Engineering, Entomology, Food Science, Nutrition and Dietetics, Geography (physical and meteorology), Geology, Health Sciences (natural science area), Marine Studies, Mathematics (except M 251, 252, 253), Physics Physical Science, Psychology (physiological), Statistics and Computer Science.

COLLEGE: PHYSICAL EDUCATION, ATHLETICS AND RECREATION
 DEPARTMENT: PHYSICAL EDUCATION
 DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION
 MAJOR: RECREATION AND PARK ADMINISTRATION
 CONCENTRATION: ~~PARKS, RECREATION, AND LEADERSHIP~~ Programming and Leadership

PAGE 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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MAJOR REQUIREMENTS

External to the College

Professional Studies Core*

AEC 201	Records and Accounts	3	X	X	
G 240	Environment and Behavior	3		X	
	Nine credits chosen from the following:	9	X	X	X
AGE 103	Land and Water Management	2			
AGE 113	Land Surveying	1			
AGE 105	Power and Machinery	4			
PLS 133	Ornamental Horticulture	3			
PLS 211	Herbaceous Landscape Plants	3			
PLS 212	Woody Landscape Plants	3			
PLS 213	Turf Establishment and Maintenance	3			
PLS 205	Forestry	3			
PLS 215	Interior Plants	3			

Within the Department

Professional Studies Core*

REC 105	Foundations of Recreation and Leisure Skills	3	X		
REC 164	Practicum in Recreation and Parks	3		X	
REC 210	Community Recreation	3	X		
REC 270	Recreation Leadership	3		X	
REC 310	Safety, First Aid and Emergency Care	3			X
REC 341	Principles of Outdoor Recreation	3			X
REC 260	Leisure Service Programming	3			X
REC 464	Internship in Recreation	9			
REC 404	Organization, Administration, Recreation and Leisure Service	3			X
REC 450	Facility and Park Management	3			X
REC 318	SPECIAL RECREATION	3		X	
	<u>Professional Studies Core*</u>				
PE 342	Adaptive Physical Education/Recreation	3			X
PE 276	Personal Computers in Health, Physical Education and Recreation	3	X		X
PE 354	SEMINAR IN FITNESS MGMT/RECREATION	1			X
	<u>Parks Option*</u>				
	Seventeen credit hours selected from the following:			X	X
PLS 105	Introductory Forestry				X
PLS 212	Woody Landscape Plants				
PLS 213	Turf Establishment and Maintenance				
G 235	Conservation of Natural Resources				
AGE 307	Building Construction				
PLS 331	Landscape Construction I				
PLS 332	Basic Landscape Design I				

Programming and Leadership Concentration

Courses reflecting a sub-discipline of leisure chosen under the direction of faculty advisor and submitted for approval to the Recreation sub-committee no later than the first semester of the junior year. 21

COLLEGE: PHYSICAL EDUCATION, ATHLETICS AND RECREATION
 DEPARTMENT: PHYSICAL EDUCATION
 DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION
 MAJOR: RECREATION AND PARK ADMINISTRATION
 CONCENTRATION: ~~PARKS/RECREATION~~ Programming and Leadership

PAGE 3

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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ELECTIVES

<u>Electives</u>	16 14-15	X	X	X	X
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CREDITS TO TOTAL A MINIMUM OF	128
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#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*Each course within the Professional Studies Core and Option Area requires a grade of C or better.

Note: An index of 2.75 in the major and a 2.00 overall index is required to take REC 464. All courses in the Professional Studies Core are considered for minimum index.

*Areas A, B, C and D must combine for a total of 48 credits.

COLLEGE: PHYSICAL EDUCATION, ATHLETICS AND RECREATION
 DEPARTMENT: PHYSICAL EDUCATION
 DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION
 MAJOR: RECREATION AND PARK ADMINISTRATION
 CONCENTRATION: PARKS (RPA/PARKS)

PAGE 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

Area A - Communication Skills ^{*} A MINIMUM OF NINE ~~SIX~~ credits from the following: English (except literature), Speech/Communication, Foreign Languages and Literatures (except literature) and EDS 521.

Writing Course

A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. Appropriate writing courses are normally designated in the semester's Registration Booklet at "Satisfies Arts and Science second writing course".

Area B - Humanities and Fine Arts ^{*} A MINIMUM OF Six credits from the following: Art, Art History, English (literature), Languages and Literature (literature), Philosophy Music and Theatre. In addition specific courses from the College of Human Resources (Department of Textiles, Design and Consumer Economics).

Area C - History and Social Science ^{*} A MINIMUM OF Nine credits from at least two of the following: Anthropology (except physical), Black American Studies, Criminal Justice, Economics, History, Political Science, Psychology, Sociology and Women's Studies. In addition, courses from the College of Human Resources in Individual and Family Studies may be selected.

Area D - Mathematics, Natural and Biological Sciences ^{*}

M xxx Mathematics course

A MINIMUM OF

Nine credits from at least two of the following: Anthropology (physical), Biology, Chemistry, Engineering, Entomology, Food Science, Nutrition and Dietetics, Geography (physical and meteorology), Geology, Health Sciences (natural science area), Marine Studies, Mathematics (except M 251, 252, 253), Physics Physical Science, Psychology (physiological), Statistics and Computer Science.

COLLEGE: PHYSICAL EDUCATION, ATHLETICS AND RECREATION
 DEPARTMENT: PHYSICAL EDUCATION
 DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION
 MAJOR: RECREATION AND PARK ADMINISTRATION
 CONCENTRATION: PARKS (RPA/PARKS)

PAGE 2

SUGGESTED CURRICULUM	CREDITS	TYPICAL	TYPICAL	TYPICAL	TYPICAL
		FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
		COMPLETES	COMPLETES	COMPLETES	COMPLETES

MAJOR REQUIREMENTS

External to the College

Professional Studies Core*

AEC 201	Records and Accounts	3	X	X	
8-248	Environment and Behavior	3		X	

Nine credits chosen from the following:

AGE 103	Land and Water Management	2			X
AGE 113	Land Surveying	1			
AGE 105	Power and Machinery	4	X	X	
PLS 133	Ornamental Horticulture	3			
PLS 211	Herbaceous Landscape Plants	3			
PLS 212	Woody Landscape Plants	3			
PLS 213	Turf Establishment and Maintenance	3			
PLS 205	Forestry	3			
PLS 215	Interior Plants	3			

Within the Department

Professional Studies Core*

REC 105	Foundations of Recreation and Leisure Skills	3	X		
REC 164	Practicum in Recreation and Parks	3		X	
REC 210	Community Recreation	3	X		
REC 270	Recreation Leadership	3		X	
REC 310	Safety, First Aid and Emergency Care	3			X
REC 341	Principles of Outdoor Recreation	3			X
REC 260	Leisure Service Programming	3			X
REC 464	Internship in Recreation	9			
REC 404	Organization, Administration, Recreation and Leisure Service	3			X
REC 450	Facility and Park Management	3			X
REC 318	SPECIAL RECREATION	3			

Professional Studies Core*

PE 342	Adaptive Physical Education/Recreation	3			X
PE 276	Personal Computers in Health, Physical Education and Recreation	3	X		X
PE 354	SEMINAR IN FITNESS ASAT/RECREATION	1			

Parks ~~Option~~ Concentration

21	Seventeen-credit hours selected from the following:	17-21		X	X	X
PLS 105	Introductory Forestry	3				
PLS 212	Woody Landscape Plants	3				
PLS 213	Turf Establishment and Maintenance	3				
6-235	Conservation of Natural Resources	3				
AGE 307	Building Construction	1				
PLS 331	Landscape Construction I	4				
PLS 332	Basic Landscape Design I	4				
PLS 133	Ornamental Horticulture	3				
PLS 211	Herbaceous Landscape Plants	3				
PLS 215	Interior Plants	3				
AGE 103	Land & Water Management	2				
AGE 113	Land Surveying	1				
AGE 105	Power & Machinery	4				
AGE 107	Welding and Metals	2				
AGE 108	Utilities	2				
AGE 109	Technical Drafting	2				
AGE 306	Cost Estimating	2				
AGE 307	Building Construction I	1				
G235	Conservation of Natural Resources	3				

COLLEGE: PHYSICAL EDUCATION, ATHLETICS AND RECREATION
 DEPARTMENT: PHYSICAL EDUCATION
 DEGREE: BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION
 MAJOR: RECREATION AND PARK ADMINISTRATION
 CONCENTRATION: PARKS (RPA/PARKS)

PAGE 3

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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ELECTIVES

Electives

/6 ~~14-15~~

X

X

X

X

CREDITS TO TOTAL A MINIMUM OF

128

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.


*Each course within the Professional Studies Core and Option Area requires a grade of C or better.

Note: An index of 2.75 in the major and a 2.00 overall index is required to take REC 466. All courses in the Professional Studies Core are considered for minimum index.

*Areas A, B, C and D must combine for a total of 48 credits.

Friday, 23, 1990

TO: Harry Hall, Chair
University Undergraduate Studies
Committee

FROM: Barbara J. Kelly, Acting Dean 
College of Physical Education,
Athletics and Recreation

SUBJECT: Revisions to the Recreation and Park Administration
Degree Program

Currently students in the RPA degree program choose between two options. We would like the options listed as concentrations so that it will appear on student's transcripts.

In both concentrations we have increased the number of credits required in the general studies area from 39 to 48 credits. The number of credits for the degree remain the same - 128.

In the Parks Concentration, the courses were chosen in consultation with Dean Shippy, Associate Dean, Agriculture Sciences.

If you will advise us of the date your committee will consider this proposal, I will be happy to attend that meeting. Please feel free to contact me if you have any questions.

h

UNIVERSITY OF DELAWARE INTER-DEPARTMENTAL

Memorandum



December 8, 1989

TO WHOM IT MAY CONCERN:

FROM: Jack L. Smith *Jack L. Smith*
Professor and Chair

RE: Nutrition Minor

The proposed minor is in response to requests from students in various departments of the University. The chemistry pre-requisites are necessary for the study of nutrition beyond the beginning level. Electing this major is most relevant to majors in Biology, Chemistry and Physical Education.

Acceptance into the minor will require approval by the Department. It is projected that there will be up to five students a year in the Nutrition Minor. The addition of these students can be accommodated with the existing faculty.

JLS/pb

Memorandum



October 4, 1989

TO: Elizabeth Lieux
College Undergraduate Studies Committee

FROM: Louise Little *Louise Little*
Undergraduate Coordinator

RE: Request to approve a minor in Nutrition

Please approve the following requirements for a minor in Nutrition.

Course requirements:

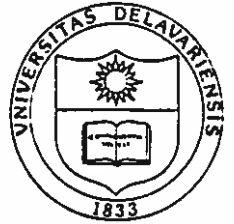
ND 200 Nutrition Concepts 3 credits
ND 400 Macronutrients 3 credits
ND 401 Macronutrients 3 credits
+ 6 credits of other ND credits at the
300 or 400 level to total 15 credits.

Note: Students will be advised that the pre-requisites for ND 400 include C 214 Elem. Biochemistry and C 216 Biochemistry Lab or an alternative Biochemistry course.



Memorandum

H. Mackmurt 6



December 8, 1989

TO WHOM IT MAY CONCERN:

FROM: Jack L. Smith *Jack L. Smith*
Professor and Chair
Nutrition and Dietetics

RE: Revision of Dietetics Major

The revision of the Dietetics major is based on trends in dietetics professional practice and is a result of a self study effort in the Department. The Self Study formed the basis of reapplication of approval in the accreditation/approval process of the American Dietetics Association. The profession has recently defined knowledge statements that are minimum requirements for academic programs in dietetics. The attached revised major addresses these knowledge statements.

Completion of an accredited dietetic internship following the academic baccalaureate degree is necessary to be eligible to take the national registration exam. Since the goal of the undergraduate curriculum is for students to become registered dietitians, admission and retention policies have been developed to enhance graduates' acceptance into internships.

It is not expected that new resources are needed to support this revision. The only new course is the Dietetics Seminar. If you have any questions or comments, please call me.

JLS/pb

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: NUTRITION AND DIETETICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: DIETETICS (DIE)

PAGE 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E	110	Critical Reading and Writing	3	X			
xx	xxx	#Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

xx	xxx	Humanities courses	9		X	X	X
		Minimum of nine credits selected from: Art, Art History, Communication, English, Languages, Literature, Music, Philosophy, Theatre.					

Sciences

C	101	General Chemistry	4	X			
or							
C	103	General Chemistry	4				
C	102	General Chemistry	4	X			
or							
C	104	General Chemistry	4				
C	213	Elementary Organic Chemistry	4		X		
C	214	Elementary Biochemistry	3		X		
C	216	Elementary Biochemistry Laboratory	1		X		
B	103	General Biology*	3	X			
B	113	General Biology Laboratory	1	X			
B	371	Introduction to Microbiology	4			X	
B	106	Elementary Human Physiology*	3		X		
B	116	Elementary Human Physiology Laboratory	1		X		

Social Sciences

EC	151	Introduction to Microeconomics	3	X			
PSY	201	General Psychology	3		X		
SOC	xxx	Sociology course	3	X			
BU	309	Management and Organizational Behavior	3			X	
xx	xxx	Social Science course selected from: Cultural Anthropology, Black American Studies, Criminal Justice, Economics, Food and Resource Economics 120, Economic and Social Geography, History, Political Science, Psychology, Sociology, Individual and Family Studies 401.	3				X

Other

ACC	207	Accounting I	3				X
ST	xxx	Statistics course	3			X	
M	114	Elementary Mathematics and Statistics	3	X			
or							
xx	xxx	Equivalent competency (math placement exam and free electives)					
xx	xxx	Principles of Learning course to be selected from:					X
IFS	380	Materials and Approaches	3				
ND	445	Nutrition Education	3				

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: NUTRITION AND DIETETICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: DIETETICS (DIE)

PAGE 2

SUGGESTED CURRICULUM			CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
<u>Within the College</u>							
FS	201	Food Management for the Consumer	2	X			
FS	211	Food Management Laboratory	1	X			
FS	305	Food Science	2		X		
FS	306	Food Science Laboratory	1		X		
<u>Within the College</u>							
IFS	xxx	IFS course	3	X	X		
TDC	xxx	TDC course	3				
HR	xxx	HR courses (IFS, ND, TDC, HR)	5		X		
<u>Within the Department</u>							
A minimum grade of C must be achieved for credits to count toward the fulfillment of credits in ND and FS; a minimum grade of C in 200-level courses must be achieved to proceed to upper-level courses; only 300-level courses and a maximum of four credits of Special Problems/Independent Study (ND x66) may count toward the fulfillment of this requirement. Note: ND 150, ND 167, and ND 303 are not applicable to degree requirements.							
ND	103	Intro. Nutrition Professions	1	X			
ND	200	Nutrition Concepts	3	X			
ND	400	Macronutrients	3			X	
ND	321	Quantity Food Production and Service	3			X	
ND	325	Laboratory in Quantity Food Production and Service	1			X	
ND	322	Food Service Systems Management	4			X	
ND	401	Micronutrients	3			X	
ND	421	Nutrition Research Methods	2			X	
ND	440	Nutrition and Disease	4				X
ND	240	Intro. Clinical Dietetics	2		X		X
ND	330	Nutrition Counseling	2			X	
ND	403	Dietetics Seminar	1				X
ELECTIVES							
ND	445	Nutrition Education	3				X
ND	460	Community Nutrition	3				X
<u>Electives</u>			19	X	X	X	X

May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and four credits of Music organization credits may be counted toward the degree and four credits of 100- and 200-level courses in Military Science/Air Force.)

CREDITS TO TOTAL A MINIMUM OF

129

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*Students desiring to fulfill a Biology minor should take B 207 and 208 and B 406 and 416.



University of Delaware

COLLEGE OF HUMAN RESOURCES
OFFICE OF THE DEAN
101 ALISON HALL
NEWARK, DELAWARE 19716

(302) 451-2301

January 29, 1990

MEMORANDUM

TO: Faculty Senate Undergraduate Studies Committee

FROM: Alexander Doberenz *AD*
Dean

RE: Modification to the General Home Economics Major

The attached proposal presents modifications to the General Home Economics major which have been approved by our College's faculty. The changes will clarify the intent of the program and strengthen its academic base.

The title has been changed to emphasize the interdisciplinary nature of our College's programs and the incorporation of an academic area outside of the college. It encourages an examination of specific course selections which result from the individualized nature of curriculum.

The program will continue to prepare students with a breadth of knowledge from our College's disciplines and in the science, humanities and social science areas. But, the addition of mathematics and biology as specific science requirements, a communications course, a second writing course, and another three credit social science course will enhance the student's knowledge base.

As indicated, the major continues to require an area of interest outside the College. This multi-disciplinary approach is to provide academic support consistent with the student's educational/professional goals.

gpr/

COLLEGE OF HUMAN RESOURCES
Interdisciplinary Studies
in Human Resources

Description:

The Interdisciplinary Studies major is a program which leads to a Bachelor of Science degree in the College of Human Resources. It combines science, humanities, and social science requirements with a breadth of courses in the College.

In addition to the core requirements in the College of Human Resources the student also selects twenty-one additional credit hours from our three departments. These can provide depth in one content area within the College or they can be selected from various content areas. If the Human Resource courses are focused in one content area, and if available, the student might declare a minor within the college. (The Department of Nutrition and Dietetics has already proposed a minor in nutrition.) Those courses that the student does select should reflect his/her personal and/or career objectives.

The student also has an opportunity to individualize their academic program through the eighteen credit hours required in an area of interest outside the college. These courses should support their specialized program within the college and enhance the student's personal and/or career goals. If approved these courses may also fulfill the requirements for a minor.

Students To Be Admitted:

Because of the opportunity to individualize this academic program, this major is appropriate for students:

- whose career or personal goals can best be achieved by combining University-wide liberal arts courses, our College's area of specialization, and an area of interest/minor outside the College.
- seeking Home Economics teacher certification. (In this case, specific Human Resource, area of interest, and elective courses will need to be selected.)

UNIVERSITY OF DELAWARE
COLLEGE OF HUMAN RESOURCES
Interdisciplinary Studies
in Human Resources
Course Requirements*

Sciences - 15 credits

Biology course	4
Science courses	8
M114 or equivalent	3

Social Science - 18 credits

Sociology course	3
Psychology course	3
Economics course	3
Social Science courses	9

Humanities - 12 credits

Communication course	3
Humanities courses	9

Area of Interest/Minor Outside the College 18

Electives 16

E110 - 3 credits

College Core Requirements - 21 credits

ND200 Nutrition Concepts	3
ND205 Nutrition in the Lifespan	3
IFS201 Issues in the Lifespan Development	3
IFS221 Child Development	3
TDC114 Clothing in Contemporary Society	3
TDC200 Consumer Economics	3
TDC235 Management of Resources	3

Other College Courses - 21 credits**

Total Credits Required = 124

*The University requires the completion of 3 credits in a multi-cultural course(s).

The major requires the completion of a second 3 credit writing course selected from the College of Arts and Sciences' "Course Approved for Second Writing Requirement" list.

It is recommended that EDD374, practicum/internship experience or a research component be included in the academic program.

**Approved minor within the College may be included.

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: ~~GENERAL HOME ECONOMICS~~ (Inter departmental)
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: ~~GENERAL HOME ECONOMICS (GHE)~~ Interdisciplinary Studies (IS)
 in Human Resources

Page

SUGGESTED CURRICULUM	CREDITS	TYPICAL	TYPICAL	TYPICAL	TYPICAL
		FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
		COMPLETES	COMPLETES	COMPLETES	COMPLETES

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

xx xxx Humanities courses selected from: Art, Art History, Communication (except 320), English, Languages, Literature, Music, Philosophy, Theatre.	9	X	X	X	
Communication course	3		X	X	X

Sciences

xx xxx Science courses selected from: Biology, Chemistry, Computer Science, Mathematics, Entomology, Physical Geography, Geology, Science and Physical Anthropology, Health and Life Sciences, Statistics Physical Science, Physics, Physiological Psychology, Plant Science, Statist.	9	X	X	X	
Bio xxx Biology course	3		X		

Social Sciences

EC xxx Introduction to Home Economics course	3	X			
PSY xxx Psychology course	3	X			
SOC xxx Sociology course	3	X			
xx xxx Social Science courses selected from: Cultural Anthropology, Black American Studies, Business Administration 309 or 301, Criminal Justice, Economics, Food and Resource Economics 120, Economic and Social Geography, History, Plant Science 200, Political Science, Psychology, Sociology, Individual and Family Studies 401.	9		X	X	

Others

M 114 or equivalent	3	X			
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COLLEGE: HUMAN RESOURCES
 DEPARTMENT: ~~GENERAL HOME ECONOMICS~~ (Interdepartmental)
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: ~~GENERAL HOME ECONOMICS (ONE)~~ Interdisciplinary Studies
 in Human Resources

Page 2

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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Other

xx xxx Courses in area of interest outside the College. 18 X X X

Within the College

TDC 114 Clothing in Contemporary Society	3	X			
ND 200 Nutrition Concepts	3	X			
IFS 221 Child Development	3	X	X		
IFS 222 Family Life 201 Issues in Life Span Development	3	X	X		X
TDC 235 Management of Resources	3		X		X
TDC 200 Consumer Economics	3			X	
xx xxx Human Resources courses (IFS, ND, ^{HRM} TDC, HR) ** 21	3		X	X	X
ND 205 Nutrition In the Lifespan	3		X		

ELECTIVES

Electives

May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and four credits of Music organization credits may be counted toward the degree and four credits of 100- and 200-level courses in Military Science/Air Force.)

CREDITS TO TOTAL A MINIMUM OF

162

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

* The major requires the completion of a second writing course selected from the College of Arts and Sciences' "Course Approved for Second Writing Requirement" list.

It is recommended that EDD 374, practicum/internship experience or a research component be included in the academic program.

** Approved minor within the College may be included.

UNIVERSITY OF DELAWARE
College of Human Resources

November 9, 1989

Memo to: Ivar Stakgold
Chair, Mathematical Sciences

From: Frances W. Mayhew *Frances W. Mayhew*
TDC Representative, HR Undergraduate Studies Committee

Subject: Math Requirement for Revised Human Ecology Major

This memo will confirm the telephone conversation in which we discussed the revision of the Mathematics requirement for the Human Ecology Major (formerly General Home Economics Major).

We understand that the Department of Mathematical Sciences will have no problem accommodating as many as 6 Human Ecology Majors per semester in M114 or an equivalent course. As you suggested, I will inform the other members of the committee that M114 is being restructured to better meet the fundamental needs of a general education student.

If this accurately reflects our conversation, will you please sign this memo on the space provided and return to me by Campus Mail. Thank you for your assistance.

Ivar Stakgold

Ivar Stakgold, Chair, Mathematical Sciences



University of Delaware

COLLEGE OF HUMAN RESOURCES
OFFICE OF THE DEAN
101 ALISON HALL
NEWARK, DELAWARE 19716

(302) 451-2301

October 30, 1989

John A. Courtright, Ph.D.
Chairperson
Dept. of Communication
University of Delaware
Newark, DE 19716

Dear Dr. Courtright,

This letter is to confirm our agreement per our telephone conversation on Monday, October 30, 1989, that the revised General Home Economics Major (Human Ecology) may include one 3 credit course in communication.

Please confirm this agreement with your signature at the bottom of this letter.

Thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script, reading "Dene G. Klinzing".

Dene Klinzing
Member, College of
Human Resources Program
and Development Committee

A handwritten signature in cursive script, reading "John A. Courtright".

John A. Courtright

2 Nov 89
Date



University of Delaware

DEPARTMENT OF NUTRITION AND DIETETICS
244 ALISON HALL
NEWARK, DELAWARE 19716

November 9, 1989

Jack L. Smith, PhD, Chair
Department of Nutrition and Dietetics

Dear Dr. Smith:

This letter is to confirm our agreement that a revised program in General Home Economics (proposed new title to be Human Ecology) may include ND205 Nutrition in the Lifespan.

Would you kindly confirm this agreement with your signature at the bottom of this letter? Thanks.

Cordially,

A handwritten signature in cursive script, reading "Elizabeth M. Lieux".

Elizabeth M. Lieux
Assistant Professor

A handwritten signature in cursive script, reading "Jack L. Smith".

Jack L. Smith, PhD, Chair
Department of Nutrition and Dietetics

Nov 13, 1989
Date

EML/bkf



University of Delaware

DEPARTMENT OF NUTRITION AND DIETETICS
244 ALISON HALL
NEWARK, DELAWARE 19716

Steven D. Skopik, PhD, Professor
School of Life and Health Sciences

Dear Dr. Skopik:

This letter is to confirm our agreement in our recent telephone conversation of Wednesday, November 8, 1989, that a revised program in General Home Economics (proposed new title to be Human Ecology) may include a required but unspecified biology course.

Would you kindly confirm this agreement with your signature at the bottom of this letter? Thanks.

Cordially,

A handwritten signature in cursive script that reads "Elizabeth M. Lieux".

Elizabeth M. Lieux
Assistant Professor

A handwritten signature in cursive script that reads "Steven D. Skopik".

Steven D. Skopik, PhD
School of Life and Health SciencesA handwritten date "11/10/89" in cursive script.

Date

EML/bkf



University of Delaware

COLLEGE OF HUMAN RESOURCES
OFFICE OF THE ASSISTANT DEAN
101 ALISON HALL
NEWARK, DELAWARE 19716

CORRESPONDENT'S PHONE
(302) 451-2301

October 30, 1989

Dr. David Black, Acting Chair
Economics Department
College of Business & Economics
University of Delaware
406 Purnell Hall
Newark, DE 19716

Dear Dr. Black:

This letter is to confirm our telephone conversation on Monday, October 30, 1989. As we discussed, our College is proposing some changes to our General Home Economics major. We are recommending that the EC 151 requirement be changed to an economics course. As a result, the students could select EC 151, 152 or, if developed, an economics course which combines the content of both.

Please confirm your approval of this proposed change by signing below.

Sincerely,

Susan McLaughlin
Assistant Dean

SM/dl

Dr. David Black, Acting Chair
Economics Department

Date



University of Delaware

CAREER PLANNING & PLACEMENT

NOV 7 1989

RECEIVED

COLLEGE OF HUMAN RESOURCES
OFFICE OF THE ASSISTANT DEAN
101 ALISON HALL
NEWARK, DELAWARE 19716

CORRESPONDENT'S PHONE
(302) 451 2301

November 3, 1989

Deborah Wailes, Assistant Director
Career Planning and Placement
Raub Hall

Dear Deborah:

This letter is to confirm our telephone conversation on Wednesday, November 1, 1989. As we discussed, our College is proposing some changes to our General Home Economics major. We are recommending that EDD 374 be added to the course requirements.

Please confirm your approval of this proposed change by signing below.

Sincerely,

Susan McLaughlin
Assistant Dean

SM/dl

Deborah Wailes, Assistant Director
Career Planning and Placement

Date

UNIVERSITY OF DELAWARE
COLLEGE OF HUMAN RESOURCES
DEPARTMENT OF TEXTILES, DESIGN AND CONSUMER ECONOMICS

Rationale for the
Revision of the
Textiles and Clothing Technology Major (TCT)
to
Textile Science (TXS)

The Textiles and Clothing Technology Major is being revised to comply with the recommendations of the Task Force on Curricular Concerns of the Futures Committee of the Association of College Professors of Textiles and Clothing (ACPTC). A copy of the summarized ACPTC Recommendations is attached.

Title. The title of the revised Textiles and Clothing Technology Major has been changed to "Textile Science Major" to more accurately reflect the focus of the Major curriculum content.

Description. The Textile Science major concentrates on fundamental principles and analytical tools as they are related to textile fibers, fabrics and other textile products. Students completing the Textile Science Program will be prepared to enter the Textile industry in the areas of Quality Control, Technology or Technical Product Distribution. The Textile Science Curriculum is one of the most rigorous programs of study for Textiles in the geographic region. Students bound for graduate study in Textile Conservation, Textile Engineering or research in areas of Product Development, Comfort, Dyes, Finishes etc. will be prepared to compete successfully with other candidates for graduate assistantships. The curriculum incorporates the requirements for a Minor in Chemistry.

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: TEXTILES AND CLOTHING: TECHNOLOGY (TCT)

Page 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

E xxx English Writing course	E 312 WR. COMM IN BUS 3	X			
COM 255 Fundamentals of Communication	OR C 312 ORAL 3	X			
xx xxx Humanities course selected from: Art, Art History, Communication (except 320), English, Language, Literature, Music, Philosophy, Theatre.	COM. IN BUSINESS 3			X	

XX ~~xxx~~ FOREIGN LANGUAGE COURSES

0-12

Sciences

C 103 General Chemistry	4	X			
C 104 General Chemistry	4	X			
C 220 Quantitative Analysis I	3			X	
C 221 Quantitative Analysis Laboratory	1		X		
C 321 Organic Chemistry	3		X		
C 325 Organic Chemistry Laboratory	1		X		
C 322 Organic Chemistry	3		X		
C 326 Organic Chemistry Laboratory	1		X		
H xxx Mathematics courses	C 418 INT. TO P. CHEM 1	X		X	X
PS 101 Introduction to Physics	C 445 P. CHEM 2 6	X		X	
or PS 207 GENERAL PHYSICS	4				
PS 201 General Physics	4				

241
 * M ~~xxx~~ CALCULUS I
 M ~~xxx~~ CALCULUS II

242

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: TEXTILES AND CLOTHING: TECHNOLOGY (TCT)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Social Sciences

EC 151 Introduction to Microeconomics	3	X			
PSY 201 General Psychology <i>← EC 152</i>	3	X		X	
SOC 201 Introduction to Sociology	3		X		
xxx History course	3	X			
xxx xxx Social Science course selected from: Cultural Anthropology, Black American Studies, Business Administration 339, Criminal Justice, Economics, Food and Resource Economics 120, Economic and Social Geography, History, Political Science, Psychology, Sociology, Individual and Family Studies 401.	3			X	

Other

BU 301 Introduction to Marketing	3			X	
CIS 105 General Computer Science	3	X			
<i>ACC 260 INTL TO BUS. INFO. SYST.</i>					

Within the College

xx xxx Human Resources courses (IFS, PS, NO, TDC) Six credits from two departments in the college other than TDC	12	X		X	
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Within the Department

TDC 115 Introduction to Textiles	3	X			
TDC 214 Costume History Before 1700	3		X		
or					
TDC 224 - Clothing Design and Production Since 1700	3				
TDC 200 - Consumer Economics	3			X	
TDC 315 Textile Analysis <i>SCIENCE ANALYSIS</i>	3			X	
TDC 425 Textile Performance	3				X
TDC 455 Textiles, Clothing and the Economy	3				X
TDC 465 Seminar <i>IND. STUDY</i>	1			X	
TDC 466 <i>Independent Study Research Problem</i>	<i>3/6</i>				X
TDC 415 Topics in Textiles	<i>3/6</i>				X
TDC xxx TDC courses	6				X

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: TEXTILES AND CLOTHING: TECHNOLOGY (TCT)

		TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>				

ELECTIVES

Electives

May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and four credits of Music organization credits may be counted toward the degree and four credits of 100- and 200-level courses in Military Science/Air Force.)

~~23~~

X

X

X

$$\begin{array}{r} 9-19 \\ 5-17 \end{array}$$

CREDITS TO TOTAL OF MINIMUM OF

129

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

Requirements: TEXTILE SCIENCE (TXS)¹, Class of 1994

University of Delaware, College of Human Resources
Department of Textiles, Design and Consumer Economics

Total 129 Credits

Humanities - 12-24 credits

E 110 Crit. Reading/Writing 3
E312 Written Comm. in Bus. 3
COM 255 or COM 312 Or/Wr/Bus. 3
Humanities Course 3
Foreign Language Courses 0-12

Social Sciences - 15 credits

EC 151 Intro. to Microecon. 3
EC 152 Intro to Macroecon. 3
SOC 201 Intro. to Sociology 3
PSY 201 General Psychology 3
Social Science Course 3

Business - 6 credits

BU 301 Intro. to Marketing 3
ACC 260 Intro/Bus Info.Sys. 3

College Electives - 12 credits

All of which to be selected
from at least two departments
in the College of Human
Resources other than TDC.

Sciences - 34 credits

C 103 General Chemistry 4
C 104 General Chemistry 4
C 220 Quantitative Analysis 3
C 221 Quant. Analysis Lab 1
C 321 Organic Chemistry 3
C 325 Organic Chemistry Lab 1
C 322 Organic Chemistry 3
C 326 Organic Chemistry Lab 1
M 241 An.Geo/Calculus A 4
M 242 An.Geo/Calculus B 4
C 418 Physical Chemistry 3
C 445 Physical Chem. Lab 1
PS 207 General Physics 4

TDC Courses - 31 credits

TDC 115 Intro to Textiles 3
TDC 315 Textile Science 3
TDC 415 Topics in Textiles 6
TDC 425 Textile Performance 3
TDC 455 Tex. Cloth. & Econ. 3
TDC 465 Seminar 1
TDC 466 Independent Study 6
TDC Courses 6

Electives - 5-17 credits
(See advisor for suggested electives)

¹One course must fulfill Univ. multicultural requirement

Suggested Schedule: TEXTILE SCIENCE (TXS), Class of 1994

University of Delaware, College of Human Resources
Department of Textiles, Design and Consumer Economics

129 Credits

Fall	Credits	Spring	Credits
FRESHMAN			
_____ C 103 General Chemistry	4	_____ C 104 General Chemistry	4
_____ Humanities course	3	_____ ACC 260 Bus.Info Sys	3
_____ EC 151 Intro to Micro.	3	_____ E 110 Crit.Rdng/Writing	3
_____ M 241 An.Geo/Calc.A	4	_____ EC 152 Intro. to Macro.	3
_____ TDC 115 Intro to Tex.	3	_____ M 242 An.Geo/Calc.B	4
	17		17
SOPHOMORE			
_____ C 321 Organic Chemistry	3	_____ C 322 Organic Chemistry	3
_____ C 325 Organic Chem. Lab	1	_____ C 326 Organic Chem. Lab	1
_____ E 312 Wrtn Com.in Bus.	3	_____ COM 255/COM 312 Speech	3
_____ PS 207 Genl. Physics	4	_____ FS or ND course	3
_____ Social Science Course	3	_____ SOC 201 Intro to Soc.	3
_____ TDC Course	3	_____ Human Resources Course	3
	17		16
JUNIOR			
_____ BU 301 Intro. to Mrkting	3	_____ TDC 466 Independent Study	3
_____ C 418 Physical Chem	3	_____ C 220 Quant. Analysis	3*
_____ TDC 315 Textile Analysis	3	_____ TDC 415 Tpcs in Textiles	3
_____ PSY 201 Genl. Psych.	3	_____ TDC 425 Txtl Performance	3
_____ Foreign Language course		_____ Foreign Language Course	
_____ or Free Elective	3/4	_____ or Free Elective	3/4
	15/16	_____ C 221 Quant Anal. Lab.	1*
		_____ TDC 465 Seminar	1
			17/18
SENIOR			
_____ IFS course	3	_____ TDC 455 Tex,Cloth,& Econ.	3
_____ TDC 466 Independent Study	3	_____ TDC courses	3
_____ TDC Course	3	_____ Foreign Language Course	
_____ C 445 Phys. Chem Lab	1	_____ or Free Electives	3/4
_____ Foreign Language Course		_____ TDC 415 Tpcs in Textiles	3
_____ or Free Elective	3/4	_____ Human Resources Course	3
_____ Free Electives	0/2		
	14/15		15/16

* students are strongly encouraged to take Quantitative Analysis (theory and lab) in Winter session of their sophomore year; i.e. prior to Physical Chemistry.

Requirements: TEXTILE SCIENCE (TXS)¹, Class of 1994

University of Delaware, College of Human Resources
Department of Textiles, Design and Consumer Economics

Total 129 Credits

Humanities - 12-24 credits

E 110 Crit. Reading/Writing	3
E312 Written Comm. in Bus.	3
COM 255 or COM 312 Or/Wr/Bus.	3
Humanities Course	3
Foreign Language Courses	0-12

Social Sciences - 15 credits

EC 151 Intro. to Microecon.	3
EC 152 Intro to Macroecon.	3
SOC 201 Intro. to Sociology	3
PSY 201 General Psychology	3
Social Science Course	3

Business - 6 credits

BU 301 Intro. to Marketing	3
ACC 260 Intro/Bus Info.Sys.	3

College Electives - 12 credits

All of which to be selected
from at least two departments
in the College of Human
Resources other than TDC.

Sciences - 34 credits

C 103 General Chemistry	4
C 104 General Chemistry	4
C 220 Quantitative Analysis	3
C 221 Quant. Analysis Lab	1
C 321 Organic Chemistry	3
C 325 Organic Chemistry Lab	1
C 322 Organic Chemistry	3
C 326 Organic Chemistry Lab	1
M 241 An.Geo/Calculus A	4
M 242 An.Geo/Calculus B	4
C 418 Physical Chemistry	3
C 445 Physical Chem. Lab	1
PS 207 General Physics	4

TDC Courses - 31 credits

TDC 115 Intro to Textiles	3
TDC 315 Textile Science	3
TDC 415 Topics in Textiles	6
TDC 425 Textile Performance	3
TDC 455 Tex. Cloth. & Econ.	3
TDC 465 Seminar	1
TDC 466 Independent Study	6
TDC Courses	6

Electives - 5-17 credits
(See advisor for suggested electives)

¹One course must fulfill Univ. multicultural requirement

Suggested Schedule: TEXTILE SCIENCE (TXS), Class of 1994

University of Delaware, College of Human Resources
Department of Textiles, Design and Consumer Economics

129 Credits

Fall	Credits	Spring	Credits
------	---------	--------	---------

FRESHMAN

_____ C 103 General Chemistry	4	_____ C 104 General Chemistry	4
_____ Humanities course	3	_____ ACC 260 Bus.Info Sys	3
_____ EC 151 Intro to Micro.	3	_____ E 110 Crit.Rdng/Writing	3
_____ M 241 An.Geo/Calc.A	4	_____ EC 152 Intro. to Macro.	3
_____ TDC 115 Intro to Tex.	3	_____ M 242 An.Geo/Calc.B	4
	17		17

SOPHOMORE

_____ C 321 Organic Chemistry	3	_____ C 322 Organic Chemistry	3
_____ C 325 Organic Chem. Lab	1	_____ C 326 Organic Chem. Lab	1
_____ E 312 Wrtn Com.in Bus.	3	_____ COM 255/COM 312 Speech	3
_____ PS 207 Genl. Physics	4	_____ FS or ND course	3
_____ Social Science Course	3	_____ SOC 201 Intro to Soc.	3
_____ TDC Course	3	_____ Human Resources Course	3
	17		16

JUNIOR

_____ BU 301 Intro. to Mrkting	3	_____ TDC 466 Independent Study	3
_____ C 418 Physical Chem	3	_____ C 220 Quant. Analysis	3*
_____ TDC 315 Textile Analysis	3	_____ TDC 415 Tpcs in Textiles	3
_____ PSY 201 Genl. Psych.	3	_____ TDC 425 Txtl Performance	3
_____ Foreign Language course		_____ Foreign Language Course	
_____ or Free Elective	3/4	_____ or Free Elective	3/4
	15/16	_____ C 221 Quant Anal. Lab.	1*
		_____ TDC 465 Seminar	1
			17/18

SENIOR

_____ IFS course	3	_____ TDC 455 Tex,Cloth,& Econ.	3
_____ TDC 466 Independent Study	3	_____ TDC courses	3
_____ TDC Course	3	_____ Foreign Language Course	
_____ C 445 Phys. Chem Lab	1	_____ or Free Electives	3/4
_____ Foreign Language Course		_____ TDC 415 Tpcs in Textiles	3
_____ or Free Elective	3/4	_____ Human Resources Course	3
_____ Free Electives	0/2		
	14/15		15/16

* students are strongly encouraged to take Quantitative Analysis (theory and lab) in Winter session of their sophomore year; i.e. prior to Physical Chemistry.

Memorandum



November 1, 1989

To: Whom It May Concern

From: John Kushman, Chair
Textiles, Design, and Consumer Economics

Subject: Change in Consumer Economics Major

At present the Consumer Economics Major has alternative concentrations in Business or Communications. The intention of the proposed changes is to (1) delete the Communications concentration and (2) modify the Business concentration. The resulting major has no separate concentrations. The Department is asking that the concentration names be dropped. The major in Consumer Economics, will remain, with no concentrations.

attach: Curriculum Approval Checklist forms (2), Curriculum Sheet

Rationale for Consumer Economics Changes

The Present Consumer Economics Major

There are 120-145 majors in Consumer Economics (CEC). They each choose an option or concentration within the major. The options are Communications or Business. For convenience, the labels are CEC-Com and CEC-Bus. The vast majority choose the CEC-Bus route.

U.D. also has majors in "Business." This is a general term for majors of the Accounting or Business Administration departments of the College of Business and Economics. U.D. has majors in Communication, in the Department of Communication, College of Arts and Sciences. CEC-Bus and CEC-Com both draw on courses from the College of Business and Economics and from the Department of Communications. As the option titles indicate, the balance between these sources is different in the current CEC options. Unfortunately, the major and option titles together (CEC-Bus and CEC-Com) do not indicate sufficiently that Consumer Economics is not a Business major nor a Communications major.

CEC focuses on the welfare of consumers as determined by intra-household decision making and resource endowments and by consumer interactions with markets. CEC builds an understanding of consumer welfare from these perspectives. It also builds skills in communicating ideas, managing or administering organizations, and analyzing policy impacts. The target careers of the major span the for-profit sector and the government and private not-for-profit sectors.

Restructuring the CEC Major

A restructuring of the major can better accomplish its goals. The proposed restructuring is to have a Consumer Economics Major (CEC) with no options. The new CEC captures the benefits of more Communication courses for the many students who presently choose the CEC-Bus route. It also takes a more generic approach to management and administration. In particular, it gives a place to management and administration courses in Political Science. The Political Science courses are more appropriate to the not-for-profit sectors. It reduces the for-profit emphasis inherent in requiring the first course in Accounting for Accounting majors (ACC 207) and a course specific to the financial sector (EC 302). The new CEC allows for these courses, but does not require them. The new CEC better reflects the intention of the major program. It retains the management and administration focus of the CEC-Bus option in a more generic and more appropriate form. It permits more emphasis on policy analysis courses and requires a pertinent course in Ethics.

The restructuring better differentiates CEC in student's minds from a "Business" or Communication major. Simpler labeling conveys a unified perception of the major.

Delete

COLLEGE: HUMAN RESOURCES
DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
MAJOR: CONSUMER ECONOMICS
CONCENTRATION: COMMUNICATION (CC)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

E xxx English Writing courses	6		X	X	
COM 255 Fundamentals of Communication	3		X		
COM 245 Mass Communication and Culture	3		X		
COM 350 Public Speaking	3				X
COM xxx* Communication course	3				X
or					
E xxx* English course	3				
xx xxx Humanities course selected from: Art, Art History, Communication (except 320), English, Languages, Literature, Music, Philosophy, Theatre.	3				X

Sciences

C 101 General Chemistry	4	X			
C 102 General Chemistry	4	X			
ST 201 Introduction to Statistics I	3		X		
xx xxx Science course selected from: Physical Anthropology, Biology, Chemistry, Health and Life Sciences, Physical Sciences, Physics, Physiological Psychology, Plant Science 101 or 201, Entomology 205, Computer Science, Physical Geography, Geology, Mathematics, Statistics.	4		X		
xx xxx Computing course elective	3		X		

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: CONSUMER ECONOMICS
 CONCENTRATION: COMMUNICATION (CC)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Social Sciences</u>					
EC 151 Introduction to Microeconomics	3	X			
EC 152 Introduction to Macroeconomics	3	X			
PSY 201 General Psychology	3		X		
PSY 303 Introduction to Social Psychology	3			X	
H xxx History course	3	X			
or					
SOC xxx Sociology course	3				
PSC xxx Political Science course	3	X			
<u>Business</u>					
ACC 207 Accounting I	3		X		
BU 301 Introduction to Marketing	3			X	
BU 309 Management and Organizational Behavior	3			X	
ACC 352 Law and Social Issues in Business	3			X	
BU 473 Buyer Behavior	3				X
<u>Within the College</u>					
xxx xxx Human Resources courses (IFS, FS, ND, TDC)	18	X	X	X	X
Six credits from two departments in the college other than TDC					
<u>Within the Department</u>					
TDC 200 Consumer Economics	3		X		
TDC 335 Consumer Financial Management	3			X	
TDC 342 Consumer Laws and Regulations	3		X		
TDC 440 Advanced Consumer Economics	3				X
TDC xxx Consumer Economics electives chosen from TDC 100, 235, 242, 306, 310, 340, 435, 465 and other courses in Consumer Economics.	15	X	X	X	X

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: CONSUMER ECONOMICS
 CONCENTRATION: COMMUNICATION (CC)

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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ELECTIVES

Electives

9

X

X

X

May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and four credits of Music organization credits may be counted toward the degree and four credits of 100- and 200-level courses in Military Science/Air Force.)

CREDITS TO TOTAL A MINIMUM OF

129

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*An additional course in Communication or English is recommended.

Balance Sheet for Consumer Economics Revision
Business Option

DELETE

ADD

Humanities

PHL 200 or course in Ethics
3 cr.

Social Sciences

History or Sociology Course
becomes one of each 3 cr.

Business

ACC 207 3 cr.

Sciences

Specific Chemistry requirement
for 8 units plus 4 units
additional science becomes
general science requirement of
6 units (12 cr. science becomes
6)

6 cr.

Requirement for one math course
that is prerequisite for EC
151, 152 is made explicit, plus
one additional math or stat
course 6 cr.

Consumer Economics
Specialization

"Specialization" is dropped.
Otherwise no change.

Business Emphasis

"Business Emphasis" is dropped.

More generic "Management and
Administration" is used.

Communication Courses 6 cr.

EC 302 is dropped 3 cr.

Political Science management
and administration courses are
added to potential selections,
no change in units.

Human Resources

Electives restricted to Human
Resources reduced from 18
credits to 16 credits

2 cr.

Electives

Unrestricted electives reduced
from 12 to 8 4 cr.

Total 18 credits

18 credits

Requirements: CONSUMER ECONOMICS¹

University of Delaware, College of Human Resources
Department of Textiles, Design, and Consumer Economics

Humanities - 15 credits

E 110 Crit. Reading and Writing	3
English Writing Course	3
COM 255 Fund. of Comm.	3
PHL 200 or Course in Ethics	3
Humanities Course	3

Social Sciences- 18 credits

EC 151 Intro. to Microecon.	3
EC 152 Intro. to Macroecon.	3
PSY 201 General Psychology	3
History Course	3
Sociology Course	3
Political Science Course	3

Business - 12 Credits

BU 301 Intro. to Marketing	3
BU 309 Mgmt. & Org. Behavior	3
ACC 352 Law & Soc. Iss. in Bus.	3
BU 473 Buyer Behavior	3

Sciences - 15 Credits

Physical and/or Biological Science Courses	6
ST 201 Intro. to Statistics I	3
Math Course	3
Math or Statistics Course	3

Consumer Economics - 27 Credits

TDC 200 Consumer Economics	3
TDC 335 Consumer Financial Management	3
TDC 342 Consumer Laws and Regulations	3
TDC 440 Advanced Consumer Economics	3
Consumer Economics Courses	15

Management and Administration - 18 credits

Computer Science Course	3
Courses from Business, Economics, Accounting, PSC 341 (Environment of Multinational Corporations), PSC 453 (Public Personnel Administration), PSC 454 (Public Administrative and Organizational Theory), PSC 455 (Public Budgeting and Financial Management)	9
Communications Courses	6

Human Resources - 16 credits

6 credits of which to be selected from
at least two departments in the College of
Human Resources other than TDC

Electives - 8 credits

One course must fulfill University multicultural
requirement.

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: CONSUMER ECONOMICS
 CONCENTRATION: BUSINESS (CB)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

E xxx English Writing course	3		X		
COM 255 Fundamentals of Communication	3		X		
xx xxx Humanities course selected from: Art, Art History, Communication (except 320), English, Languages, Literature, Music, Philosophy, Theatre.	3		X		
<i>DHL 300 OR COURSE IN ETHICS</i>	<i>2</i>				X

Sciences

C 101 General Chemistry	4	X			
C 102 General Chemistry	4	X			
ST 201 Introduction to Statistics I	3				X
xx xxx Computing course elective	3		X		
xx xxx Science course selected from: Physical Anthropology, Biology, Chemistry, Health and Life Sciences, Physical Sciences, Physics, Physiological Psychology, Plant Science 101 or 201, Entomology 205, Computer Science, Physical Geography, Geology, Mathematics, Statistics.	<i>4/6</i>		X		
<i>M XXX MATH COURSE</i>	<i>2</i>	<i>X</i>			
<i>M XXX MATH COURSE</i>	<i>2</i>				
<i>ST XXX STATISTICS COURSE</i>	<i>2</i>		X		
<i>COM XXX COMMUNICATIONS COURSE</i>	<i>6</i>			X	X

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: CONSUMER ECONOMICS
 CONCENTRATION: BUSINESS (CB)

Page 2

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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Social Sciences

EC 151 Introduction to Microeconomics	3	X			
EC 152 Introduction to Macroeconomics	3	X			
PSY 201 General Psychology	3		X		
H xxx History course	3	X			

SOC xxx Sociology course

PSC xxx Political Science course

Business

ACC 207 Accounting I	3		X		
ACC 352 Law and Social Issues in Business	3		X		
BU 301 Introduction to Marketing	3			X	
BU 309 Management and Organizational Behavior	3			X	
BU 473 Buyer Behavior	3				X

~~EC 302 Money, Credit and Banking~~

-BU xxx Business course(s)

and/or

EC xxx Economics course(s)

and/or

ACC xxx Accounting course(s)

AND/OR ANY OF THE FOLLOWING:

Within the College

XX xxx Human Resources courses (IFS, ND, TDC)	16	X	X	X	X
Six credits from two departments in the college other than TDC					

Within the Department

TDC 200 Consumer Economics	3		X		
TDC 335 Consumer Financial Management	3				X
TDC 342 Consumer Laws and Regulations	3		X		
TDC 440 Advanced Consumer Economics	3				X
TDC xxx Consumer Economics electives chosen from TDC 100, 235, 242, 306, 310, 340, 435, 465, and other courses in Consumer Economics.	15	X	X	X	X

PSC 241 ENVIRONMENT OF MULTINATIONAL CORPORATION

PSC 453 PUBLIC PERSONNEL ADMINISTRATION

PSC 454 PUBLIC ADMINISTRATION AND ORGANIZATIONAL THEORY

PSC 455 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: TEXTILES, DESIGN AND CONSUMER ECONOMICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: CONSUMER ECONOMICS
 CONCENTRATION: BUSINESS (CB)

Page 3

SUGGESTED CURRICULUM

CREDITS

TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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ELECTIVES

Electives

May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and four credits of Music organization credits may be counted toward the degree and four credits of 100- and 200-level courses in Military Science/Air Force.)

12 3

X

X

CREDITS TO TOTAL A MINIMUM OF

129

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*~~Three additional credits in Statistics or Mathematics are recommended.~~



University of Delaware

Attachment 10

COLLEGE OF AGRICULTURAL SCIENCES
DEPARTMENT OF ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
040 TOWNSEND HALL
NEWARK, DELAWARE 19717-1303

(302) 451-2524

February 27, 1990

MEMORANDUM

To: Dr. Dean Shippy
Associate Dean

From: Dr. John K. Rosenberger *JKR*
Professor and Department Chair

RE: CHANGE IN ANIMAL SCIENCE MAJOR

As per our discussion the Department of Animal Science and Agricultural Biochemistry would like to alter requirements for the major and include concentrations in Agricultural Biotechnology, Preveterinary Medicine, Applied Animal Science and General Animal Sciences. These changes are being initiated to more clearly identify the program options available in the department and also to provide a mechanism for formally recognizing students who adhere to the recommended courses within one or more of the concentrations.

As you are aware we made the decision several years ago to strengthen our expertise in the molecular biosciences to allow more active participation in the agricultural biotechnology arena. We have accomplished our objective by hiring three new faculty with training in molecular biology. We would now like to use that expertise not only in our research programs, but in our undergraduate teaching efforts as well. This will be accomplished by establishing a concentration in biotechnology. This program will not compete with that currently available in Life and Health Sciences but should, in fact, enhance their program as well as ours.

Please let me know if you have any questions or concerns.

epm



University of Delaware

SCHOOL OF LIFE AND HEALTH SCIENCES
OFFICE OF THE DIRECTOR
NEWARK, DELAWARE 19716

(302) 451-6977

February 23, 1990

TO: John Rosenberger, Chair
Animal Sciences

FROM: Milton H. Setson, Director
School of Life and Health Sciences

A handwritten signature in black ink, appearing to read "Milton H. Setson", written over the "FROM:" line of the letter.

Dear Jack:

Your proposal for a concentration in agricultural biotechnology was reviewed by Dr. Simmons (head of our BS-Biotechnology program) and myself. We find minimal overlap and a large amount of complementarity in your and our course offerings. We endorse your program and are ready to work with you and your faculty to enhance instruction in the molecular biosciences on campus.

MHS/pwu

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

concentration: Agricultural Biotechnology

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

Mathematics and Computer Sciences

M xxx Mathematics course (M 115 <i>or higher level</i>)	3	X			
xx xxx A Computer Science course chosen from the following:	3		X		
CIS 105 General Computer Science	3				
AGE 111 Computer Applications in Engineering Technology	3				
AEC 235 Introduction to Data Analysis	3				
xx xxx or the equivalent	3				

Agricultural and Biological Sciences

9-12
 Minimum of one course outside the student's major
 in three of the following areas: Food and Resource
 Economics, Agricultural Engineering, ~~Animal Science~~ *Food Science*,
 Entomology and Applied Ecology, Plant Science or
 Biology.

Literature and Arts

6
 Six credits selected from the general areas of
 English, Art, Art History, Communication, Music,
 Theatre or foreign language.

Social Sciences and Humanities

9
 Minimum of one course in three of the following areas:
 Anthropology, Black American Studies, Criminal Justice,
 Economics, Education, Geography, History, Philosophy,
 Political Science, Psychology, Sociology or Women's
 Studies.

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 2

Concentration: Agricultural Biotechnology

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Physical Sciences

8

X

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4	X			
or					
C 103 General Chemistry	4				
C 102 General Chemistry	4	X			
or					
C 104 General Chemistry	4				
C 213 Elementary Organic Chemistry	4		*		
or					
C 321 Organic Chemistry	3				
C 325 Organic Chemistry Laboratory	1				
C 214 Elementary Biochemistry	3		*		
C 216 Elementary Biochemistry Laboratory	1				
or					
C 322 Organic Chemistry	3				
C 326 Organic Chemistry Laboratory	1				
<u>Pre-veterinary Interest</u>					
PS 201 General Physics	4			*	
PS 202 General Physics	4			*	
C 527 Introductory Biochemistry	3			*	

Within the Department

APS 101 Introduction to Animal Science	3	X			
APS 111 Animal Science Laboratory	1	X			
APS 110 Functional Anatomy	4	X			
APS 251 Livestock Nutrition and Feeding	3	*			
APS 251 Livestock Nutrition and Feeding	3		X		
APS 332 Introduction to Animal Diseases	3		X		
APS 300 Principles of Animal and Plant Genetics	3			X	
APS 345 Comparative Physiology of Domestic Animals	1			X	
APS 665 Seminar	1				X
APS xxx Animal Science courses	25			X	

One course must be selected from the following:
 APS 404 Dairy Production 3
 APS 417 Beef Cattle and Sheep Production 3
 APS 418 Swine Production 3
 APS 421 Poultry Production 3

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 3

Concentration: Agricultural Biotechnology

SUGGESTED CURRICULUM

CREDITS

TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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No more than ^{five}~~six~~ credits of APS 266, 366, 466, or 666 Special Problem/Independent Study may be used for the major.

Credit may be granted toward major for only two of the following: APS 221, APS 322, APS 342 or APS 420.

within the Concentration

ELECTIVES

Electives

May include Military Science, Music or Physical Education. (Only four credits of activity type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree.)

3-7

X

X

X

X

Recommended Electives

~~371 Introduction to Microbiology~~
 COM 350 Public Speaking

~~4~~

3

X

~~*~~

Recommended Preprofessional Interest

~~307 Introductory Biology I~~
~~308 Introductory Biology II~~

~~4~~

~~*~~

~~*~~

~~*~~

CREDITS TO TOTAL A MINIMUM OF

130

This requirement may be fulfilled thru a course taken to complete major requirements, ~~group requirements, breadth or elective requirements~~

C220 Quantitative Analysis 3
 C418 Introductory Physical Chemistry 3
 E312 Written Communications in Business 3
 FS439/639 Food Microbiology 4
 FS449/649 Fermentation Technology 4

X

X

X

X

X

X

X

X

X

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)
 CONCENTRATION: AGRICULTURAL BIOTECHNOLOGY

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR</u>
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COMPLETES

WITHIN THE CONCENTRATION

APS 270	Biotechnology:Sci. & Socioeconomic Issues	3		x	
APS 310	Animal Genetics Lab.	1			x
APS 431	Infection & Immunity in Animal Diseases	4			
APS 466	Independent Study (Approved research project)	3			x
APS 670	Molecular Genetics	3			x
B 207	Introductory Biology I	4	x		
B 208	Introductory Biology II	4	x		
B 301	Molecular Biology of the Cell	4		x	
B 371	Intro. to Microbiology	4		x	
C 321	Organic Chemistry	3		x	
C 325	Organic Chemistry Lab.	1		x	
C 322	Organic Chemistry	3		x	
C 326	Organic Chemistry Lab.	1		x	
C 527	Introductory Bio-chemistry	- 3			
or					x
C 641	Biochemistry	3			x
and					
C 642	Biochemistry	3			x
M 22I	Calculus	3	x		
PS 201	General Physics	4			x
PS 202	General Physics	4			x

Select a minimum of one course from the following:

APS 624	Monogastric Nutrition	3			x
APS 633	Poultry Pathology	3			x
APS 635	Introduction to Virology	3			x
APS 643	Molecular Endocrinology	3			x
APS 645	Avian Physiology	4			x
APS 654	Ruminant Nutrition	3			x

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)
 CONCENTRATION: AGRICULTURAL BIOTECHNOLOGY

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR</u>
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COMPLETES

WITHIN THE CONCENTRATION (cont.)

One additional course must be selected from the following:

B 601	Immunochemistry	4			x
B 602	Molecular Biology of Animal Cells	3			x
B 650	Bacterial Physiology	3			x
B 653	Recent Advances in Molecular Biology	3			x
B 654	Biochemical Genetics	3			x
B 658	Developmental Genetics	3			x
B 671	Immunobiology	3			x
B 679	Virology	3			x
B 693	Human Genetics	3			x

*U. S. Dept. of Ag.
and Forest Serv.*

COLLEGE: AGRICULTURAL SCIENCE
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE
 CONCENTRATION: AGRICULTURAL BIOTECHNOLOGY

SUGGESTED CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3 ¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*	3 ¹⁻⁴

COLLEGE REQUIREMENTS

Mathematics and Computer Science

Mathematics course (M115 or higher level)	3 ¹
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Computer Science course selected from CIS 105, AGE 111, AEC 235, or equivalent	3 ²
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<u>Agricultural and Biological Sciences</u>	9-12 ^{2,3}
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Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Food Science, Agricultural Engineering, Entomology and Applied Ecology, Plant Science or Biology.

<u>Literature and Arts</u>	6 ^{2,3}
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Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or Foreign Language. . .

<u>Social Sciences and Humanities</u>	9 ^{2,3}
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Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology, or Women's Studies.

<u>Physical Sciences</u>	8 ¹
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Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

*This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements.

Agricultural Biotechnology Concentration - continued - p. 2

SUGGESTED CURRICULUM

CREDITS*

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4 ¹
or	
C 103 General Chemistry	4 ¹
C 102 General Chemistry	4 ¹
or	
C 104 General Chemistry	4 ¹

Within the Department

APS 101 Introduction to Animal Science	3 ¹
APS 111 Animal Science Laboratory	1 ¹
APS 140 Functional Anatomy	4 ¹
APS 251 Livestock Nutrition and Feeding	3 ²
APS 300 Principles of Animal and Plant Genetics	3 ³
APS 332 Introduction to Animal Diseases	3 ³
APS 345 Comparative Physiology of Domestic Animals	4 ³
APS 465 Seminar	1 ⁴

One course must be selected from the following:

APS 404 Dairy Production	3 ³⁻⁴
APS 417 Beef Cattle and Sheep Production	3 ³⁻⁴
APS 418 Swine Production	3 ³⁻⁴
APS 421 Poultry Production	3 ³⁻⁴

Animal Science courses	5 ³
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No more than five credits of APS 266, 366, 466, or 666
Special Problem/Independent Study may be used for the major.

Credit toward the major will be granted for only two of the
following: APS 221, 322, 342, or 420.

Agricultural Biotechnology Concentration - continued - p. 3

Within the Concentration

APS 270	Biotechnology: Science and Socioeconomic Issues	3 ²
APS 310	Animal Genetics Laboratory	1 ³
APS 431	Infection and Immunity in Animal Diseases	4 ⁴
APS 466	Independent Study (Approved research project)	3 ⁴
APS 670	Molecular Genetics	3 ⁴
B 207	Introductory Biology I	4 ¹
B 208	Introductory Biology II	4 ¹
B 301	Molecular Biology of the Cell	4 ²⁻³
B 371	Introduction to Microbiology	4 ²⁻³
C 321	Organic Chemistry	3 ²
C 325	Organic Chemistry Laboratory	1 ²
C 322	Organic Chemistry	3 ²
C 326	Organic Chemistry Laboratory	1 ²
C 527	Introductory Biochemistry	3 ⁴
or		
C 641	Biochemistry	3 ⁴
and		
C 642	Biochemistry	3 ⁴
M 221	Calculus	3 ¹
PS 201	General Physics	4 ³
PS 202	General Physics	4 ³

Select a minimum of one course from the following:

APS 624	Monogastric Nutrition	3 ⁴
APS 633	Poultry Pathology	3 ⁴
APS 635	Introduction to Virology	3 ⁴
APS 643	Molecular Endocrinology	3 ⁴
APS 645	Avian Physiology	4 ⁴
APS 654	Ruminant Nutrition	3 ⁴

One additional course must be selected from the following:

B 601	Immunochemistry	4 ⁴
B 602	Molecular Biology of Animal Cells	3 ⁴
B 650	Bacterial Physiology	3 ⁴
B 653	Recent Advances in Molecular Biology	3 ⁴
B 654	Biochemical Genetics	3 ⁴
B 658	Developmental Genetics	3 ⁴
B 671	Immunobiology	3 ⁴
B 679	Virology	3 ⁴
B 693	Human Genetics	3 ⁴

Agricultural Biotechnology Concentration - continued - p. 4

ELECTIVES

Electives

2-7

May include Military Science, Music, or Physical Education. (Only four credits of activity-type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree).

Recommended Electives

C 220 Quantitative Analysis	3 ²⁻⁴
C 418 Introductory Physical Chemistry	3 ⁴
COM 350 Public Speaking	3 ²
E 312 Written Communications in Business	3 ²⁻⁴
FS 439/639 Food Microbiology	4 ⁴
FS 449/649 Fermentation Technology	4 ⁴

CREDITS TO TOTAL A MINIMUM OF 130

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 1

Concentration: Preventive Medicine

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

Mathematics and Computer Sciences

M xxx Mathematics course (M 115 <i>on higher level</i>)	3	X			
xx xxx A Computer Science course chosen from the following:	3		X		
CIS 105 General Computer Science	3				
AGE 111 Computer Applications in Engineering Technology	3				
AEC 235 Introduction to Data Analysis	3				
xx xxx or the equivalent	3				

Agricultural and Biological Sciences

9-12
 Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Agricultural Engineering, *Food Science*, Entomology and Applied Ecology, Plant Science or Biology.

Literature and Arts

6
 Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or foreign language.

Social Sciences and Humanities

9
 Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology or Women's Studies.

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Concentration: Prevetonary Medicine

SUGGESTED CURRICULUM

CREDITS

TYPICAL FRESHMAN COMPLETES TYPICAL SOPHOMORE COMPLETES TYPICAL JUNIOR COMPLETES TYPICAL SENIOR COMPLETES

Physical Sciences

8

X

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4	X		
or				
C 103 General Chemistry	4			
C 102 General Chemistry	4	X		
or				
C 104 General Chemistry	4			
C 213 Elementary Organic Chemistry	4			
or				
C 321 Organic Chemistry	3			
C 325 Organic Chemistry Laboratory	1			
C 214 Elementary Biochemistry	3			
C 216 Elementary Biochemistry Laboratory	1			
or				
C 322 Organic Chemistry	3			
C 326 Organic Chemistry Laboratory	1			

Prevetonary Interact

PS 201 General Physics	4			
PS 302 General Physics	4			
C 327 Introductory Biochemistry	3			

Within the Department

APS 101 Introduction to Animal Science	3	X		
APS 111 Animal Science Laboratory	1	X		
APS 110 Functional Anatomy	4	X		
APS 112 Anatomy and Physiology of Domestic Animals	4	X		
APS 113 Anatomy and Physiology of Domestic Animals	4	X		
APS 251 Livestock Nutrition and Feeding	3		X	
APS 332 Introduction to Animal Diseases	3		X	
APS 300 Principles of Animal and Plant Genetics	3			
APS 465 Seminar	1			
APS xxx Animal Science courses	8.5			

One course must be selected from the following:

APS 404 Dairy Production
 APS 417 Beef Cattle and Sheep Production
 APS 418 Swine Production
 APS 421 Poultry Production

X	
X	X
X	X
X	X
X	X

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 3

Concentration: Preventive Medicine

SUGGESTED CURRICULUM

CREDITS

TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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Five
 No more than ~~six~~ credits of APS 266, 366, 466, or
 666 Special Problem/Independent Study may be
 used for the major.

Credit may be granted toward major for only two
 of the following: APS 221, APS 322, APS 342 or
 APS 420.

Within the Concentration

*See attached
p. 4*

ELECTIVES

Electives

May include Military Science, Music or Physical
 Education. (Only four credits of activity type
 Physical Education and/or four credits of performing
 Music organization credit may be counted toward the
 degree.)

30-37

X	X	X	X
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Recommended Electives

~~B 371 Introduction to Microbiology~~
~~COM 350 Public Speaking~~

4
5

X

X

Recommended Prerequisite Interest

~~B 207 Introductory Biology I~~
~~B 208 Introductory Biology II~~

4
4

X
X

CREDITS TO TOTAL A MINIMUM OF

130

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements,
 breadth or elective requirements

AEC 201 Records and Accounts 3
*APS 270 Biotechnology: Science and
Socioeconomic Issues 3*
APS 431 Infection and Immunity in An. Dis. 4
APS 446 Environmental Physiology of Dom. An. 4
APS 452 Advanced Comparative An. Nutrition 4
ANS 635 Introduction to Virology 3
COM 312 Oral Communications in Business 3
EB 312 Written Communications in Business 3

X

X

X

X

X

+

+

+

+

+

+

+

+

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)
 CONCENTRATION: PREVETERINARY MEDICINE

page 4

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR</u>
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COMPLETES

WITHIN THE CONCENTRATION

APS 310	Animal Genetics Lab.	1			
B 207	Introductory Biology I	4			x
B 208	Introductory Biology II	4		x	
B 371	Intro. to Microbiology	4			
C 321	Organic Chemistry	3		x	
C 325	Organic Chemistry Lab.	1		x	
C 322	Organic Chemistry	3		x	
C 326	Organic Chemistry Lab.	1		x	
C 527	Introductory Bio-chemistry or equivalent	3			
M 221	Calculus	3	x		
PS 201	General Physics	4			x
PS 202	General Physics	4			x

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE
 CONCENTRATION: PREVETERINARY MEDICINE

SUGGESTED CURRICULUM CREDITS*

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing 3¹
 Three credits in an approved course or courses stressing 3¹⁻⁴
 multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS

Mathematics and Computer Science

Mathematics course (M 115 or higher level) 3¹

Computer Science course selected from CIS 105, 3²
 AGE 111, AEC 235, or equivalent

Agricultural and Biological Sciences 9-12^{2,3}

Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Food Science, Agricultural Engineering, Entomology and Applied Ecology, Plant Science or Biology.

Literature and Arts 6^{2,3}

Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or Foreign Language.

Social Sciences and Humanities 9^{2,3}

Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology, or Women's Studies.

Physical Sciences 8¹

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

#This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements.

Preveterinary Concentration - continued - p. 2

SUGGESTED CURRICULUM

CREDITS*

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4 ¹
or	
C 103 General Chemistry	4 ¹
C 102 General Chemistry	4 ¹
or	
C 104 General Chemistry	4 ¹

Within the Department

APS 101 Introduction to Animal Science	3 ¹
APS 111 Animal Science Laboratory	1 ¹
APS 140 Functional Anatomy	4 ¹
APS 251 Livestock Nutrition and Feeding	3 ²
APS 300 Principles of Animal and Plant Genetics	3 ³
APS 332 Introduction to Animal Diseases	3 ³
APS 345 Comparative Physiology of Domestic Animals	4 ³
APS 465 Seminar	1 ⁴

One course must be selected from the following:

APS 404 Dairy Production	3 ³⁻⁴
APS 417 Beef Cattle and Sheep Production	3 ³⁻⁴
APS 418 Swine Production	3 ³⁻⁴
APS 421 Poultry Production	3 ³⁻⁴

Animal Science courses	5 ³
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No more than five credits of APS 266, 366, 466, or 666
Special Problem/Independent Study may be used for the major.

Credit toward the major will be granted for only two of the
following: APS 221, 322, 342, or 420.

Preveterinary Concentration - continued - p. 3

Within the Concentration

APS 310	Animal Genetics Laboratory	1 ³
B 207	Introductory Biology I	4 ²
B 208	Introductory Biology II	4 ²
B 371	Introduction to Microbiology	4 ³
C 321	Organic Chemistry	3 ²
C 325	Organic Chemistry Laboratory	1 ²
C 322	Organic Chemistry	3 ²
C 326	Organic Chemistry Laboratory	1 ²
C 527	Introductory Biochemistry or equivalent	3 ⁴
M 221	Calculus	3 ¹
PS 201	General Physics	4 ³
PS 202	General Physics	4 ³

ELECTIVES

<u>Electives</u>	30-33
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May include Military Science, Music, or Physical Education. (Only four credits of activity-type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree).

Recommended Electives

AEC 201	Records and Accounts	3 ²⁻⁴
APS 270	Biotechnology: Science and Socioeconomic Issues	3 ²
APS 431	Infection and Immunity in Animal Diseases	4 ⁴
APS 446	Environmental Physiology of Domestic Animals	4 ³⁻⁴
APS 452	Advanced Comparative Animal Nutrition	4 ³⁻⁴
APS 635	Introduction to Virology	3 ⁴
COM 312	Oral Communications in Business	3 ²
E 312	Written Communications in Business	3 ²⁻⁴
CREDITS TO TOTAL A MINIMUM OF		130

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Concentration: Applied Animal Science

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

<u>Mathematics and Computer Sciences</u> <i>on higher level)</i>					
M xxx Mathematics course (M 115 recommended)	3	X			
xx xxx A Computer Science course chosen from the following:	3		X		
CIS 105 General Computer Science	3				
AGE 111 Computer Applications in Engineering Technology	3				
AEC 235 Introduction to Data Analysis	3				
xx xxx or the equivalent	3				

<u>Agricultural and Biological Sciences</u>	9-12		X	X	
Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Agricultural Engineering, Food Science , <i>Animal Science</i> , Entomology and Applied Ecology, Plant Science or Biology.					

<u>Literature and Arts</u>	6		X	X	
Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or foreign language.					

<u>Social Sciences and Humanities</u>	9		X	X	
Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology or Women's Studies.					

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 2

Concentration: Applied Animal Science

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Physical Sciences

8

X

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4	X			
or					
C 103 General Chemistry	4				
C 102 General Chemistry	4	X			
or					
C 104 General Chemistry	4				
C 245 Elementary Organic Chemistry	4		X		
or					
C 321 Organic Chemistry	3				
C 325 Organic Chemistry Laboratory	1				
C 214 Elementary Biochemistry	3		X		
C 216 Elementary Biochemistry Laboratory	1				
or					
C 322 Organic Chemistry	3				
C 326 Organic Chemistry Laboratory	1				
<u>Recreational Interest</u>					
PS 201 General Physics	4			X	
PS 202 General Physics	4			X	
C 327 Introductory Biochemistry	3			X	

Within the Department

APS 101 Introduction to Animal Science	3	X			
APS 111 Animal Science Laboratory	1	X			
APS 133 Anatomy and Physiology of Domestic Animals I	4	X			
APS 134 Anatomy and Physiology of Domestic Animals II	4	X			
APS 251 Livestock Nutrition and Feeding	3		X		
APS 332 Introduction to Animal Diseases	3		X		
APS 300 Principles of Animal and Plant Genetics	3			X	
APS 465 Seminar	1			X	
APS xxx Animal Science courses	85			X	
<i>One course must be selected from the following:</i>					
APS 404 Dairy Production	3			X	
APS 417 Beef Cattle and Sheep Production	3			X	
APS 418 Swine Production	3			X	
APS 421 Poultry Production	3			X	

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)
Concentration: Applied Animal Science

Page 3

SUGGESTED CURRICULUM

CREDITS

TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
----------------------------------	-----------------------------------	--------------------------------	--------------------------------

No more than ^{Five} ~~six~~ credits of APS 266, 366, 466, or 666 Special Problem/Independent Study may be used for the major.

Credit may be granted toward major for only two of the following: APS 221, APS 322, APS 342 or APS 420.

Within the Concentration

See: attached p. 4

ELECTIVES

Electives

May include Military Science, Music or Physical Education. (Only four credits of activity type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree.)

21-24

X

X

X

X

Recommended Electives

B 371 Introduction to Microbiology

4

X

~~B 350 *Active Learning*~~

~~3~~

~~X~~

Recommended Electives

B 207 Introductory Biology I

4

X

B 208 Introductory Biology II

4

X

CREDITS TO TOTAL A MINIMUM OF

130

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements

AEC 153 Agricultural Salesmanship

3

+

+

AEC 350 Farm Management

3

+

+

AGE 328 Agricultural Waste Mgt. Systems

3

+

+

APS 270 Biotechnology: Science and Socioeconomic Issues

3

X

APS 431 Infection and Immunity in An. Dis.

4

+

CM 312 Oral Communications in Business

3

+

ES 12 Written Communications in Bus.

3

+

+

+

PLS 401 Agronomic Crop Science

3

+

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)
 CONCENTRATION: APPLIED ANIMAL SCIENCE

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR</u>
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COMPLETES

WITHIN THE CONCENTRATION

AEC 120	Elementary Agr'l Economics	3	x		
AEC 201	Records & Accounts	3		x	
APS 201	Behavior of Domestic Animals	3		x	
APS 441	Reproductive Physiology	3			x
APS 446	Environmental Physiology of Domestic Animals	4			
APS 452	Advanced Comparative Animal Nutrition	4			
C 213	Elementary Organic Chemistry	4		x	
C 214	Elementary Biochemistry	3		x	
C 216	Elementary Biochemistry Lab.	1		x	
ENT 205	Elements of Entomology	3		x	
PLS 151	Introduction to Crop Science	3		x	
PLS 204	Introduction to Soil Science	4		x	

Select a minimum of three courses from the following:

APS 404	Dairy Production	3		x	x
APS 417	Beef Cattle & Sheep Production	3		x	x
APS 418	Swine Production	3		x	x
APS 420	Equine Management	3		x	x
APS 421	Poultry Production	3		x	x

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE
 CONCENTRATION: APPLIED ANIMAL SCIENCE

SUGGESTED CURRICULUM **CREDITS***

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing 3¹
 Three credits in an approved course or courses stressing 3¹⁻⁴
 multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS

Mathematics and Computer Science

Mathematics course (M 115 or higher level) 3¹

Computer Science course selected from CIS 105, 3²
 AGE 111, AEC 235, or equivalent

Agricultural and Biological Sciences 9-12^{2,3}

Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Food Science, Agricultural Engineering, Entomology and Applied Ecology, Plant Science or Biology.

Literature and Arts 6^{2,3}

Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or Foreign Language.

Social Sciences and Humanities 9^{2,3}

Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology, or Women's Studies.

Physical Sciences 8¹

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

*This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements.

Applied Animal Science Concentration - continued - p. 2

SUGGESTED CURRICULUM

CREDITS*

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4 ¹
or	
C 103 General Chemistry	4 ¹
C 102 General Chemistry	4 ¹
or	
C 104 General Chemistry	4 ¹

Within the Department

APS 101 Introduction to Animal Science	3 ¹
APS 111 Animal Science Laboratory	1 ¹
APS 140 Functional Anatomy	4 ¹
APS 251 Livestock Nutrition and Feeding	3 ²
APS 300 Principles of Animal and Plant Genetics	3 ³
APS 332 Introduction to Animal Diseases	3 ³
APS 345 Comparative Physiology of Domestic Animals	4 ³
APS 465 Seminar	1 ⁴

One course must be selected from the following:

APS 404 Dairy Production	3 ³⁻⁴
APS 417 Beef Cattle and Sheep Production	3 ³⁻⁴
APS 418 Swine Production	3 ³⁻⁴
APS 421 Poultry Production	3 ³⁻⁴

Animal Science courses . . . 5³

No more than five credits of APS 266, 366, 466, or 666
Special Problem/Independent Study may be used for the major.

Credit toward the major will be granted for only two of the
following: APS 221, 322, 342, or 420.

Applied Animal Science Concentration - continued - p. 3

Within the Concentration

AEC 120	Elementary Agricultural Economics	3 ¹
AEC 201	Records and Accounts	3 ²⁻³
APS 201	Behavior of Domestic Animals	3
APS 441	Reproductive Physiology	3 ⁴
APS 446	Environmental Physiology of Domestic Animals	4 ⁴
APS 452	Advanced Comparative Animal Nutrition	4 ⁴
C 213	Elementary Organic Chemistry	4 ²
C 214	Elementary Biochemistry	3 ²
C 216	Elementary Biochemistry Laboratory	1 ²
ENT 205	Elements of Entomology	3 ²⁻³
PLS 151	Introduction to Crop Science	3 ²⁻³
PLS 204	Introduction to Soil Science	4 ²⁻³

Select a minimum of three courses from the following:

APS 404	Dairy Production	3 ³⁻⁴
APS 417	Beef Cattle and Sheep Production	3 ³⁻⁴
APS 418	Swine Production	3 ³⁻⁴
APS 420	Equine Management	3 ³⁻⁴
APS 421	Poultry Production	3 ³⁻⁴

ELECTIVES

Electives

21-24

May include Military Science, Music, or Physical Education. (Only four credits of activity-type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree).

Recommended Electives

AEC 153	Agricultural Salesmanship	3 ¹⁻²
AEC 350	Farm Management	3 ³⁻⁴
AGE 328	Agricultural Waste Management Systems	3 ³⁻⁴
APS 270	Biotechnology: Science and Socioeconomic Issues	3 ²
APS 431	Infection and Immunity in Animal Diseases	4 ⁴
B 207	Introductory Biology I	4 ²
B 208	Introductory Biology II	4 ²
B 371	Introduction to Microbiology	4 ³
COM 312	Oral Communications in Business	3 ³
E 312	Written Communications in Business	3 ²⁻⁴
PLS 401	Agronomic Crop Science	3 ⁴

CREDITS TO TOTAL A MINIMUM OF 130

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 1

Concentration: General Animal Science

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

Mathematics and Computer Sciences *on higher level*

M xxx Mathematics course (M 115 recommended)	3	X			
xx xxx A Computer Science course chosen from the following:	3		X		
CIS 105 General Computer Science	3				
AGE 111 Computer Applications in Engineering Technology	3				
AEC 235 Introduction to Data Analysis.	3				
xx xxx or the equivalent	3				

Agricultural and Biological Sciences

9-12

X X

Minimum of one course outside the student's major
in three of the following areas: Food and Resource
Economics, Agricultural Engineering, *Food Science*,
Entomology and Applied Ecology, Plant Science or
Biology.

Literature and Arts

6

X X

Six credits selected from the general areas of
English, Art, Art History, Communication, Music,
Theatre or foreign language.

Social Sciences and Humanities

9

X X

Minimum of one course in three of the following areas:
Anthropology, Black American Studies, Criminal Justice,
Economics, Education, Geography, History, Philosophy,
Political Science, Psychology, Sociology or Women's
Studies.

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Page 2

Concentration: General Animal Science

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Physical Sciences

8

X

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

MAJOR REQUIREMENTS

External to the College

C 101 General Chemistry	4	X			
or					
C 103 General Chemistry	4				
C 102 General Chemistry	4	X			
or					
C 104 General Chemistry	4				
C 213 Elementary Organic Chemistry	4		*		
or					
C 324 Organic Chemistry	3				
C 325 Organic Chemistry Laboratory	1				
C 214 Elementary Biochemistry	3		*		
C 216 Elementary Biochemistry Laboratory	1				
or					
C 322 Organic Chemistry	3				
C 326 Organic Chemistry Laboratory	1				
<u>Pre-veterinary Interest</u>					
PS 201 General Physics	4			*	
PS 202 General Physics	4			*	
C 527 Introductory Biochemistry	2			*	

Within the Department

APS 101 Introduction to Animal Science	3	X			
APS 111 Animal Science Laboratory	1	X			
APS 133 Anatomy and Physiology of Domestic Animals I	4	X			
APS 134 Anatomy and Physiology of Domestic Animals II	4	X			
APS 251 Livestock Nutrition and Feeding	3		X		
APS 332 Introduction to Animal Diseases	3		X		
APS 300 Principles of Animal and Plant Genetics	3			X	
APS 465 Seminar	1				X
APS xxx Animal Science courses	5			X	
<i>One course must be selected from the following:</i>					
APS 404 Dairy Production	3			X	X
APS 417 Beef Cattle and Sheep Production	3			X	X
APS 418 Swine Production	3			X	X
APS 421 Poultry Production	3			X	X

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE (ANS)

Concentration: General Animal Science

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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No more than ^{five}~~seven~~ credits of APS 266, 366, 466, or 666 Special Problem/Independent Study may be used for the major.

Credit may be granted toward major for only two of the following: APS 221, APS 322, APS 342 or APS 420.

ELECTIVES

58-61
~~38-57~~

Electives

May include Military Science, Music or Physical Education. (Only four credits of activity type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree.)

Recommended Electives

B 371 Introduction to Microbiology 4
 COM 350 Public Speaking 3

Recommended Pre-requisite Courses

B 207 Introductory Biology I 4
 B 208 Introductory Biology II 4

CREDITS TO TOTAL A MINIMUM OF

130

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements

AEC201 Records and Accounts 3
APS 270 Biotechnology: Science and
Scioeconomic Issues 3
E 312 Written Communications in Bus. 3

X	X		
X			
X	X	X	X

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ANIMAL SCIENCE
 CONCENTRATION: GENERAL ANIMAL SCIENCE

SUGGESTED CURRICULUM	CREDITS*
UNIVERSITY REQUIREMENTS	
E 110 Critical Reading and Writing	3 ¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*	3 ¹⁻⁴
COLLEGE REQUIREMENTS	
<u>Mathematics and Computer Science</u>	
Mathematics course (M 115 or higher level)	3 ¹
Computer Science course selected from CIS 105, AGE 111, AEC 235, or equivalent	3 ²
<u>Agricultural and Biological Sciences</u>	9-12 ^{2,3}
Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Food Science, Agricultural Engineering, Entomology and Applied Ecology, Plant Science or Biology.	
<u>Literature and Arts</u>	6 ^{2,3}
Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or Foreign Language.	
<u>Social Sciences and Humanities</u>	9 ^{2,3}
Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology, or Women's Studies.	
<u>Physical Sciences</u>	8 ¹
Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.	

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

*This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements.

General Animal Science Concentration - continued - p. 2

SUGGESTED CURRICULUM

CREDITS*

MAJOR REQUIREMENTS

External to the College

C 101	General Chemistry	4 ¹
or		
C 103	General Chemistry	4 ¹
C 102	General Chemistry	4 ¹
or		
C 104	General Chemistry	4 ¹

Within the Department

APS 101	Introduction to Animal Science	3 ¹
APS 111	Animal Science Laboratory	1 ¹
APS 140	Functional Anatomy	4 ¹
APS 251	Livestock Nutrition and Feeding	3 ²
APS 300	Principles of Animal and Plant Genetics	3 ³
APS 332	Introduction to Animal Diseases	3 ³
APS 345	Comparative Physiology of Domestic Animals	4 ³
APS 465	Seminar	1 ⁴

One course must be selected from the following:

APS 404	Dairy Production	3 ³⁻⁴
APS 417	Beef Cattle and Sheep Production	3 ³⁻⁴
APS 418	Swine Production	3 ³⁻⁴
APS 421	Poultry Production	3 ³⁻⁴

Animal Science courses . . . 5³

No more than five credits of APS 266, 366, 466, or 666
Special Problem/Independent Study may be used for the major.

Credit toward the major will be granted for only two of the
following: APS 221, 322, 342, or 420.

General Animal Science Concentration - continued - p. 3

ELECTIVES

Electives

58-61

May include Military Science, Music, or Physical Education. (Only four credits of activity-type Physical Education and/or four credits of performing Music organization credit may be counted toward the degree).

Recommended Electives

AEC 201	Records and Accounts	3 ²⁻³
APS 270	Biotechnology: Science and Socioeconomic Issues	3 ²
B 207	Introductory Biology I	4 ²
B 208	Introductory Biology II	4 ²
B 371	Introduction to Microbiology	4 ³
COM 350	Public Speaking	3 ²
E 312	Written Communications in Business	3 ²⁻⁴
CREDITS TO TOTAL A MINIMUM OF		130



Memorandum

DATE: February 8, 1990

TO : Dean Shippy
Assoc. Dean, Instruction, College of Agricultural Sciences

FROM: J. Hough-Goldstein *JHGoldstein*
Chair, Courses & Curriculum Committee
Department of Entomology & Applied Ecology

Faculty of the Department of Entomology and Applied Ecology have voted to require a grade of C or better in all ENT courses for both the major and the minor. We feel that a grade of D in any ENT course indicates insufficient knowledge of the subject for an entomology major or minor, and thus required ENT courses should be repeated until a C or better is achieved. We propose indicating this requirement for majors as shown on the attached curriculum form.

We have also voted to reduce the number of required ENT courses for the minor, while keeping the number of ENT credits required at 15, in order to introduce more flexibility into the minor. At the same time we would like to eliminate the use of special problems, etc., toward those 15 ENT courses, in order to maintain rigor. Changes in catalog wording are indicated on the attached form.

JHG:vlt

Attachment

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ENTOMOLGY AND APPLIED ECOLOGY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ENTOMOLOGY (ENT)

Page 1

SUGGESTED CURRICULUM

	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

COLLEGE REQUIREMENTS

Mathematics and Computer Sciences

M xxx Mathematics course (M 115 or higher level)	3	X			
xx xxx* A Computer Science course chosen from the following:	3		X		
CIS 105 General Computer Science	3				
AGE 111 Computer Applications in Engineering Technology	3				
AEC 235 Introduction to Data Analysis	3				
xx xxx or the equivalent	3				

Agricultural and Biological Sciences

9-12 X X
 Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Agricultural Engineering, Animal Science, Entomology and Applied Ecology, Plant Science or Biology.

Literature and Arts

6 X
 six credits selected from the general areas of English, Art, Art History, Communication, Music, theatre or foreign language.

Social Sciences and Humanities

9 X
 Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology or Women's studies.

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ENTOMOLOGY AND APPLIED ECOLOGY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ENTOMOLOGY (ENT)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Physical Sciences

8 X

Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

MAJOR REQUIREMENTS

Within or External to the College

C 101	General Chemistry	4	X		
C 102	General Chemistry	4	X		
B 207	Introductory Biology I	4		X	
B 208	Introductory Biology II	4		X	
B 302	General Ecology	3			X
AG 211	Literature of the Agricultural and Life Sciences	1	X		
Nine credits from the following:		9			X X
B xxx	Biology courses at/or above the 300-level.				
or					
PLS xxx	The following PLS courses:				
PLS 151	Introduction to Crop Science	3			
PLS 303	Introductory Plant Pathology	4			
PLS 204	Introduction to Soil Science	4			
PLS 355	Weed Biology and Control	2			
PLS 300	Principles of Animal and Plant Genetics	3			
PLS 402	Plant Taxonomy	3			

Within the Department †

ENT 205	Elements of Entomology	3	X		
ENT 305	Entomology Laboratory	2		X	
ENT 405	Insect Structure and Function	4			X
ENT 406	Insect Identification - Taxonomy	3			X X
ENT 408	Field Taxonomy	2			X X
ENT 465	Seminar	1			X X
ENT xxx	Additional Entomology courses	9		X	X X

COLLEGE: AGRICULTURAL SCIENCES
 DEPARTMENT: ENTOMOLGY AND APPLIED ECOLOGY
 DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE
 MAJOR: ENTOMOLOGY (ENT)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	TYPICAL FRESHMAN <u>COMPLETES</u>	TYPICAL SOPHOMORE <u>COMPLETES</u>	TYPICAL JUNIOR <u>COMPLETES</u>	TYPICAL SENIOR <u>COMPLETES</u>
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ELECTIVES

<u>Electives</u>	30		X	X	X
May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and/or two credits of performing Music organization credit may be counted toward the degree.)					

CREDITS TO TOTAL A MINIMUM OF 124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*Note: A course may be applied both towards the major requirement and a college requirement, but credits are counted only once towards the total credits for graduation.

+C or better required for all ENT courses used to satisfy department requirements.

graduate study require strong academic performance and a solid background in the sciences as preparation.

Students majoring in entomology choose one of two options: *entomology* or *wildlife conservation*. These options carry no specific requirements but indicate a student's desire to emphasize one or the other aspect in his or her program.

DEGREE: BACHELOR OF SCIENCE IN AGRICULTURE MAJOR: ENTOMOLOGY

SUGGESTED CURRICULUM

UNIVERSITY REQUIREMENTS

ENT 110 Critical Reading and Writing 3¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.* 3¹⁻⁴

COLLEGE REQUIREMENTS

Mathematics and Computer Science 3¹
Mathematics course (M 115 or higher level) 3²
Computer Science course selected from CIS 105, AGE 111, AEC 235, or equivalent 9-12^{1,2}

Agricultural and Biological Sciences
Minimum of one course outside the student's major in three of the following areas: Food and Resource Economics, Food Science, Agricultural Engineering, Animal Science, Entomology and Applied Ecology, Plant Science or Biology. 6²

Literature and Arts
Six credits selected from the general areas of English, Art, Art History, Communication, Music, Theatre or Foreign Language. 9²

Social Sciences and Humanities
Minimum of one course in three of the following areas: Anthropology, Black American Studies, Criminal Justice, Economics, Education, Geography, History, Philosophy, Political Science, Psychology, Sociology or Women's Studies. 8¹

Physical Sciences
Minimum of eight credits selected from one of the following areas: Chemistry, Physics, Geology or Physical Science.

MAJOR REQUIREMENTS†

Within or External to the College

C 101 General Chemistry 4¹
C 102 General Chemistry 4²
B 207 Introductory Biology I 4²
B 208 Introductory Biology II 4³
B 302 General Ecology 3¹
AG 211 Literature of the Agricultural and Life Sciences 1¹
9^{3,4}

Nine credits from the following:
Biology courses at/or above the 300 level.

or

The following PLS courses

PLS 151 Introduction to Crop Science 3
PLS 303 Introductory Plant Pathology 4
PLS 204 Introduction to Soil Science 4
PLS 355 Weed Biology and Control 2
PLS 300 Principles of Animal and Plant Genetics 3
PLS 402 Plant Taxonomy 3

Within the Department

ENT 205 Elements of Entomology 3¹
ENT 305 Entomology Laboratory 2²

SUGGESTED CURRICULUM

ENT 405 Insect Structure and Function 4³
ENT 406 Insect Identification—Taxonomy 3^{3,4}
ENT 408 Field Taxonomy 2^{3,4}
ENT 465 Seminar 1^{3,4}
Entomology courses 9²⁻⁴

ELECTIVES

Electives

May include Military Science, Music, or Physical Education. (Only two credits of activity-type Physical Education and/or two credits of performing Music organization credit may be counted toward the degree.) 30²⁻⁴

CREDITS TO TOTAL A MINIMUM OF

124

Students should complete their programs with electives that broaden their views of the world and strengthen their preparation for a career. A list of suggested courses and other information is available in the department office. Course selection should be made in consultation with the academic adviser during the preregistration period of each term.

REQUIREMENTS FOR A MINOR IN ENTOMOLOGY

The minor in entomology requires 15 credits, ^{of courses with an ENT} including the following: ENT 205, 305, 406, 408 and 465. ^{and}

A student may emphasize entomology or ~~ecology~~ wildlife conservation by proper choice of courses for the remaining 7 credits. ~~Appropriate for entomology are ENT 211, 221, 405, 411, 607, 609, 614, 619 and 620. For ecology/wildlife conservation, ENT 201, 418, 425, 614, 615 and 617 are recommended.~~ A minimum grade of C is required in all courses counting toward the minor. Credits for Special Problems, Independent Study, Research, and Field Experience do not count toward the minor.

An undergraduate major in entomology is appropriate for a student wishing to pursue graduate study and a career in wildlife conservation, ecology, or management. Students interested in this field should consult the Pre-Wildlife Adviser in the department for information and guidance in course selection. The student will be an entomology major and must satisfy the same requirements. Careful selection of electives and courses to fulfill group requirements will provide sound preparation for graduate study in a wildlife-related area.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

‡A course may be applied toward both the major requirement and a college requirement, but credits are counted only once toward the total credits for graduation.

COLLEGE: BUSINESS AND ECONOMICS
DEPARTMENT: ACCOUNTING
DEGREE: BACHELOR OF SCIENCE IN ACCOUNTING
MAJOR: ACCOUNTING (ACC)

PAGE 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E	110	Critical Reading and Writing	3	X			
xx	xxx	#Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

<u>Humanities</u>	15	X	X		
Fifteen credits from the following departments: Art History, History, English (except composition courses), Philosophy, Music, (except credit for participation in instrumental and/or choral organizations), Theatre, Comparative Literature and literature courses in a foreign language.					

<u>Social and Behavioral Science</u>	3	X			
Three credits from the following departments: Anthropology, Psychology or Sociology.					

Skills

M	221	Calculus I	3	X
M	230	Finite Mathematics with Applications	3	X
or				
M	242	Analytic Geometry and Calculus B	4	
M	230	Finite Mathematics with Applications	3	
or				
M	241	Analytic Geometry and Calculus A	4	
M	242	Analytic Geometry and Calculus B	4	
M	243	Analytic Geometry and Calculus C	4	
ST	201	Introduction to Statistics I	3	
ST	202	Introduction to Statistics II	3	

Three credits chosen from the following:				3		X
E	301	Problems in Composition		3		
E	302	Advanced Composition		3		
E	410	Technical Writing		3		
COM	255	Fundamentals of Communication		3		
COM	350	Public Speaking		3		
COM	356	Small Group Communication		3		
COM	361	Interpersonal Communication		3		

<u>Natural and Physical Science or Mathematics</u>	6		X		
Six credits chosen from the following departments: Mathematics beyond Calculus I, Biological Sciences, Chemistry, Geology, Physics, Physical Geography, Physical Science, Oceanography, Animal Science or Plant Science.					

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: ACCOUNTING
 DEGREE: BACHELOR OF SCIENCE IN ACCOUNTING
 MAJOR: ACCOUNTING (ACC)

PAGE 2

SUGGESTED CURRICULUM		CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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Within the College

EC	151	Introduction to Microeconomics	3	X		
EC	152	Introduction to Macroeconomics	3	X		
BU	301	Introduction to Marketing	3		X	
BU	306	Operations Management	3		X	
BU	311	Business Finance	3		X	
BU	309	Management and Organizational Behavior	3			X
BU	441	Business Policy	3			X
BU	407	Security Analysis	3			X
EC	302	Money, Credit and Banking	3		X	
EC	xxx	Economics course	3		X	
BU	xxx	Business Administration courses (at the 300-level or higher)	6			X
			200			

Within the Department

ACC	207	Accounting I	3		X	
ACC	208	Accounting II	3		X	
ACC	260	Introduction to Business Information Systems I	3		X	
*ACC	315	Intermediate Accounting I	3			X
ACC	302	Accounting Information Systems	3		X	
*ACC	316	Intermediate Accounting II	3			X
ACC	327	Cost Accounting	3		X	
ACC	350	Business Law I	3			X
ACC	351	Business Law II	3			X
ACC	413	Income Tax Accounting	3			X
ACC	415	Advanced Accounting	3			X
ACC	417	Auditing	3			X

ELECTIVES

<u>Electives</u>	8-14	X	X	X	X
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Fourteen credits of elective subjects of which six credits may be taken outside the college of Arts and Science. Six credits from the College of Business and Economics may be elected in the elective category. A student who elects ROTC may apply twelve credits of ROTC to the elective category. No more than two credits can be from PE 120.

CREDITS TO TOTAL A MINIMUM OF

128

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

* A GRADE OF C OR BETTER IS REQUIRED IN ACC 315 BEFORE TAKING ACC 316. A GRADE OF C OR BETTER IS REQUIRED BEFORE TAKING ACC 415.

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: BUSINESS ADMINISTRATION
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: ADMINISTRATIVE MANAGEMENT (BAA)

PAGE 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

<u>Humanities</u>	15	X	X		
Fifteen credits from the following departments: Art History, History, English (except composition courses), Philosophy, Music, (except credit for participation in instrumental and/or choral organizations), Theatre, Comparative Literature and literature courses in a foreign language. No more than nine credits may be taken in one department.					

Social and Behavioral Science

PSY xxx Psychology course	3	X			
SOC xxx Sociology course	3	X			
xx xxx+ Three to six credits from the following departments: Anthropology, Geography, Political Science, Psychology or Sociology (except Criminal Justice).	3-6		X		

No more than six credits may be taken in one department.

Skills

COM 312 Oral Communication in Business	3			X	
E 312 Written Communications in Business	3			X	
M 221 Calculus I	3	X			
M 230 Finite Mathematics with Applications	3	X			
ST 201 Introduction to Statistics I	3		X		
ST 202 Introduction to Statistics II	3		X		

Natural and Physical Science or Mathematics

7	X				
Seven credits including one lab credit from the following departments: Animal Science, Biological Sciences, Chemistry, Entomology, Geology, Physics, Plant Science and Science.					

Within the College

EC 151= Introduction to Microeconomics	3	X			
EC 152= Introduction to Macroeconomics	3	X			
EC xxx+ Three to six credits in Economics at the 200 300 -level or higher.	3-6			X	X
ACC 207= Accounting I	3		X		
ACC 208= Accounting II	3		X		
ACC 260 Introduction to Business Information Systems I	3		X		
ACC 261 Introduction to Business Information Systems II	3		X		
ACC 352 Law and Social Issues in Business	3			X	
ACC xxx* Accounting course(s)	0-6				X

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: BUSINESS ADMINISTRATION
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: ADMINISTRATIVE MANAGEMENT (BAA)

PAGE 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Within the Department

BU 301= Introduction to Marketing	3			X	
BU 306= Operations Management	3			X	
BU 309= Management and Organizational Behavior	3			X	
BU 310\$ Administrative Theory	3			X	
BU 311= Business Finance	3			X	
BU 420\$ Industrial Relations	3				X
or					
BU 421\$ Human Resource Management	3				
BU 428\$ Administrative Management Systems	3				X
BU 429\$ Seminar on Organizations	3				X
BU 441 Business Policy	3				X
BU xxx* Business course(s) outside the student's concentration.	0-6				

ELECTIVES

<u>Electives</u>	13	X	X	X	X
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Thirteen credits not offered in the College of Business and Economics of which, no more than two credits can be from PE 120.

CREDITS TO TOTAL A MINIMUM OF 128

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

+Students taking six credits of Social and Behavioral Science courses are only required to take three credits of Economics.

*Students must take a total of six credits in any combination of the courses marked with an asterisk.

=A grade of C or better is required in this course.

\$A grade of C or better is required in all courses but one. **ALSO, 3 OF THESE 4 COURSES MUST BE TAKEN AT THE UNIVERSITY OF DELAWARE**

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: BUSINESS ADMINISTRATION
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: OPERATIONS MANAGEMENT (BAO)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

Fifteen credits from the following departments: Art History, History, English (except composition courses), Philosophy (except PHL 125), Music (except credit for participation in instrumental and/or choral organizations), Theatre, Comparative Literature and literature courses in a foreign language. No more than nine credits may be taken in one department.

15	X	X		
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Social and Behavioral Science

PSY xxx Psychology course
 SOC xxx Sociology course
 xx xxx+ Three to six credits from the following departments: Anthropology, Geography, Political Science, Psychology or Sociology (except Criminal Justice).

3	X			
3	X			
3-6		X		

No more than six credits may be taken in one department.

Skills

COM 312 Oral Communication in Business
 E 312 Written Communications in Business
 M 221 Calculus I
 M 230 Finite Mathematics with Applications
 ST 201 Introduction to Statistics I
 ST 202 Introduction to Statistics II

3				X
3				X
3	X			
3	X			
3			X	
3			X	

Natural and Physical Science

Seven credits including one lab credit from the following departments: Animal Science, Biological Sciences, Chemistry, Entomology, Geology, Physics, Plant Science and Science.

7	X			
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Within the College

EC 151= Introduction to Microeconomics
 EC 152= Introduction to Macroeconomics
 EC 415 Economic Forecasting
 EC xxx+ Three to six credits in Economics at the

3	X			
3	X			
3				
				X

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: BUSINESS ADMINISTRATION
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: OPERATIONS MANAGEMENT (BAO)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
200 level or higher.	3-6				
ACC 207= Accounting I	3			X	
ACC 208= Accounting II	3			X	
ACC 352 Law and Social Issues in Business	3				X
ACC xxx* Accounting course	0-6				X
BE 431\$ Decision Support Systems	3				X

Within the Department

BU 260 Introduction to Business Information Systems I	3			X	
BU 301= Introduction to Marketing	3				X
BU 306= Operations Management	3				X
BU 309= Management and Organizational Behavior	3				X
BU 311= Business Finance	3				X
BU 346\$ Analysis of Operations Problems	3				X
BU 360 Introduction to Business Information Systems II	3				X
BU 441 Business Policy	3				X
BU 446\$ Operations Planning and Control	3				X
BU 447\$ Operations Management Strategy	3				X
BU xxx* Business course(s) outside the student's concentration.	0-6				

ELECTIVES

Electives 13

Thirteen credits not offered in the College of Business and Economics of which, no more than two credits can be from PE 120.

X X

CREDITS TO TOTAL A MINIMUM OF

128

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

+Students taking six credits of Social and Behavioral Science courses are only required to take three credits of Economics.

*Students must take a total of six credits in any combination of the courses marked with an asterisk.

=A grade of C or better is required in this course.

\$A grade of C or better is required in all courses but one. **ALSO, 3 OF THESE 4 COURSES MUST BE TAKEN AT THE UNIVERSITY OF DELAWARE.**

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: BUSINESS ADMINISTRATION
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: MARKETING MANAGEMENT (BAM)

PAGE 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

<u>Humanities</u> Fifteen credits from the following departments: Art History, History, English (except composition courses), Philosophy, Music, (except credit for participation in instrumental and/or choral organizations), Theatre, Comparative Literature and literature courses in a foreign language. No more than nine credits may be taken in one department.	15	X	X		
<u>Social and Behavioral Science</u> PSY xxx Psychology course	3	X			
SOC xxx Sociology course	3	X			
xx xxx+ Three to six credits from the following departments: Anthropology, Geography, Political Science, Psychology or Sociology (except Criminal Justice). No more than six credits may be taken in one department.	3-6		X		

Skills

COM 312 Oral Communication in Business	3			X	
E 312 Written Communications in Business	3			X	
M 221 Calculus I	3	X			
M 230 Finite Mathematics with Applications	3	X			
ST 201 Introduction to Statistics I	3		X		
ST 202 Introduction to Statistics II	3		X		

Natural and Physical Science or Mathematics
 Seven credits including one lab credit from the following departments: Animal Science, Biological Sciences, Chemistry, Entomology, Geology, Physics, Plant Science and Science.

Within the College

EC 151= Introduction to Microeconomics	3	X			
EC 152= Introduction to Macroeconomics	3	X			
EC 351 Managerial Economics	3		X		
EC xxx+ Three to six credits in Economics at the 200 level or higher.	3-6			X	X
ACC 207= Accounting I	3		X		
ACC 208= Accounting II	3		X		
ACC 260 Introduction to Business Information Systems I	3		X		
ACC 261 Introduction to Business Information Systems II	3		X		
ACC 352 Law and Social Issues in Business	3			X	
ACC xxx* Accounting course(s)	0-6				X

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: BUSINESS ADMINISTRATION
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: MARKETING MANAGEMENT (BAM)

PAGE 2

<u>SUGGESTED CURRICULUM</u>		<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Within the Department</u>						
BU 301= Introduction to Marketing		3			X	
BU 302\$ Marketing Research		3			X	
BU 306= Operations Management		3			X	
BU 309= Management and Organizational Behavior		3			X	
BU 311= Business Finance		3			X	
BU 441 Business Policy		3				X
BU 479\$ Marketing Strategy for the Firm		3				X
BU xxx* Business course(s) outside the student's concentration.		0-6				X
Six credits from the following five courses:						
BU 470\$ Sales Management and Selling		3				X
BU 471\$ Advertising Management		3				X
BU 473\$ Buyer Behavior		3				
BU 474\$ Marketing Channels and Retailing		3				
BU 475\$ International Marketing		3				
BU 477\$ Product and Price Planning		3				

ELECTIVES

<u>Electives</u>	13	X	X	X	X
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Thirteen credits not offered in the College of Business and Economics of which, no more than two credits can be from PE 120.

CREDITS TO TOTAL A MINIMUM OF 128

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

+Students taking six credits of Social and Behavioral Science courses are only required to take three credits of Economics.

*Students must take a total of six credits in any combination of the courses marked with an asterisk.

=A grade of C or better is required in this course.

\$A grade of C or better is required in all courses but one. **Also, 3 of these 4 courses MUST BE TAKEN AT THE UNIVERSITY OF DELAWARE.**

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: ACCOUNTING
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: FINANCIAL MANAGEMENT (BAF)

PAGE 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E 110	Critical Reading and Writing	3	X			
xx xxx	#Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

<u>Humanities</u>		15	X	X		
Fifteen credits from the following departments: Art History, History, English (except composition courses), Philosophy, Music, (except credit for participation in instrumental and/or choral organizations), Theatre, Comparative Literature and literature courses in a foreign language.						
<u>Social and Behavioral Science</u>						
PSY xxx	Psychology course	3	X			
SOC xxx	Sociology course	3	X			
xx xxx+	Three to six credits from the following departments: Anthropology, Geography, Political Science, Psychology or Sociology (except Criminal Justice).	3-6		X		
No more than six credits may be taken in one department.						

Skills

COM 312	Oral Communication in Business	3				X
E 312	Written Communications in Business	3				X
M 221	Calculus I	3	X			
M 230	Finite Mathematics with Applications	3	X			
ST 201	Introduction to Statistics I	3		X		
ST 202	Introduction to Statistics II	3		X		

Natural and Physical Science or Mathematics

Seven credits including one lab credit from the following departments: Animal Science, Biological Sciences, Chemistry, Entomology, Geology, Physics, Plant Science and Science.

Within the College

EC 151=	Introduction to Microeconomics	3	X			
EC 152=	Introduction to Macroeconomics	3	X			
EC 302	Money, Credit and Banking	3			X	
EC xxx+	Three to six credits in Economics at the 200 level or higher.	3-6			X	X
ACC 207=	Accounting I	3		X		
ACC 208=	Accounting II	3		X		
ACC 260	Introduction to Business Information Systems I	3		X		
ACC 261	Introduction to Business Information Systems II	3		X		
ACC 352	Law and Social Issues in Business	3			X	
ACC xxx*	Accounting course(s)	0-6				X

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: ACCOUNTING
 DEGREE: BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
 MAJOR: BUSINESS ADMINISTRATION
 CONCENTRATION: FINANCIAL MANAGEMENT (BAF)

PAGE 2

<u>SUGGESTED CURRICULUM</u>		<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Within the Department</u>						
BU 301=	Introduction to Marketing	3			X	
BU 306=	Operations Management	3			X	
BU 309=	Management and Organizational Behavior	3			X	
BU 311=	Business Finance	3			X	
BU 312\$	Problems in Financial Management	3			X	
BU 470\$ 407\$	Security Analysis	3				X
BU xxx\$	Three credits from the following five courses:					X
BU 413	Finance Seminar (topics vary by semester)	3				
BU 414	Finance Seminar - Banking	3				
BU 415	Finance Seminar - International Finance	3				
BU 416	Finance Seminar - Investments	3				
BU 417	Finance Seminar - Real Estate	3				
BU 412\$	The American Financial System	3				X
BU 441	Business Policy	3				X
BU xxx*	Business courses(s) outside the student's concentration.	0-6				

ELECTIVES

<u>Electives</u>	13	X	X	X	X
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Thirteen credits not offered in the College of Business and Economics of which, no more than two credits can be from PE 120.

CREDITS TO TOTAL A MINIMUM OF 128

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

+Students taking six credits of Social and Behavioral Science courses are only required to take three credits of Economics.

*Students must take a total of six credits in any combination of the courses marked with an asterisk.

=A grade of C or better is required in this course.

SA grade of C or better is required in all courses but one. *Also, 3 of these 4 courses must be taken at the University of Delaware.*

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: ECONOMICS
 DEGREE: BACHELOR OF SCIENCE
 MAJOR: ECONOMICS (EBS)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the CollegeSkill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content.	3			X or	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
or					
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
or					
One of the following:					
M 221 Calculus I	3				
M 241 Analytic Geometry and Calculus A	4				
or					

Successful performance on the college proficiency examination.

Quantitative Proficiency Requirements

Twelve credits of course work in the quantitative area. At least six credits must be taken in Mathematics at or above the 200-level. The remaining six credits may be chosen from other Mathematics

12	X	X
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10/88

COLLEGE: BUSINESS AND ECONOMICS
DEPARTMENT: ECONOMICS
DEGREE: BACHELOR OF SCIENCE
MAJOR: ECONOMICS (EBS)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	TYPICAL	TYPICAL	TYPICAL	TYPICAL
		FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
		<u>COMPLETES</u>	<u>COMPLETES</u>	<u>COMPLETES</u>	<u>COMPLETES</u>

courses at or above the 200-level, ACC 207-208,
Statistics and Computer Science courses at or above
the 300-level, and EC 422, 423 and 426. Economics
courses used to satisfy this requirement may not be
used to satisfy Economics concentration requirements.

→ A maximum of one

→ BU 306, 346, and 446, BE 430 and
431, and EC 415, 422, 423, and 426.

Breadth Requirements*

Group A. Understanding and appreciation of the
creative arts and humanities. Twelve credits
representing at least two departments.

12 X X X X

Group B. The study of culture and institutions over
time. Twelve credits representing at least two
departments.

12 X X X X

Group C. Empirically based study of human beings and
their environment. Three credits which cannot be
satisfied by an Economics course.

3 X X X X

Group D. The study of natural phenomena through
experiment and analysis. A minimum of thirteen
credits representing at least two departments
including a minimum of one course with an associated
laboratory.

13 X X X X

Related Areas

ST 201* Introduction to Statistics I
or

3 X

ST 370* Introduction to Statistical Analysis I

3 X or X

ST 202* Introduction to Statistics II
or

3 X

ST 371* Introduction to Statistical Analysis II

3 X or X

xx xxx* Nine credits chosen from any 300-level or
or higher courses in Anthropology, Business
Administration, Computer Science, Geography,
History, Mathematics, Philosophy, Political
Science, Psychology, Sociology and Statistics.
Also acceptable are ACC 207/208 and any
200-level Mathematics course not used to
fulfill quantitative proficiency requirements.

9 X X X

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COLLEGE: BUSINESS AND ECONOMICS
DEPARTMENT: ECONOMICS
DEGREE: BACHELOR OF SCIENCE
MAJOR: ECONOMICS (EBS)

Page 3

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Within the Department

EC 151	Introduction to Microeconomics	3	X		
EC 152	Introduction to Macroeconomics	3	X		
EC 302	Money, Credit and Banking	3			
EC 402	Intermediate Macroeconomic Theory	3		X	
EC xxx	Five Economics courses, two of which are at or above the 400-level.	15 18	X or X	X	
EC 451	Quantitative Microeconomic Theory	3		X	X
301					

ELECTIVES

Electives

35-44	X	X	X	X
32-41				
124				

CREDITS TO TOTAL A MINIMUM OF

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

EBS breadth requirements reproduce those required by the College of Arts and Science. Please see the appropriate pages of this catalog for the courses approved to satisfy them.

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COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: ECONOMICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: ECONOMICS (EBA)

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the CollegeSkill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content.	3			X or	X
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
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or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
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or

One of the following:

M 221 Calculus I	3				
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M 241 Analytic Geometry and Calculus A	4				
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or

Successful performance on the college proficiency
examination.

10/88

COLLEGE: BUSINESS AND ECONOMICS
 DEPARTMENT: ECONOMICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: ECONOMICS (EBA)

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Breadth Requirements*</u>					
<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Three credits which cannot be satisfied by an Economics course.	3	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X
<u>Related Areas</u>					
ST 201* Introduction to Statistics I or	3		X		
ST 370* Introduction to Statistical Analysis I	3		X or	X	
ST 202* Introduction to Statistics II or	3		X		
ST 371* Introduction to Statistical Analysis II	3		X or	X	
xx xxx* Nine credits chosen from any 300-level or higher course in Anthropology, Business Administration, Computer Science, Geography, History, Mathematics, Philosophy, Political Science, Psychology, Sociology and Statistics. Also acceptable are ACC 207/208 and any 200-level Mathematics course.	9		X	X	X

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COLLEGE: BUSINESS AND ECONOMICS
DEPARTMENT: ECONOMICS
DEGREE: BACHELOR OF ARTS
MAJOR: ECONOMICS (EBA)

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Within the Department

EC 151 Introduction to Microeconomics	3	X			
EC 152 Introduction to Macroeconomics	3	X			
EC 302 Money, Credit and Banking	3		X		
EC 401 Intermediate Microeconomic Theory	3		X		
EC 402 Intermediate Macroeconomic Theory	3		X or	X	
EC xxx Five Economics courses, ^{two} of ^{three} which are at or above the 400-level.	15 18		X	X	X

ELECTIVES

Electives

35-56 32-53	X	X	X	X
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CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

EBA breadth requirements reproduce those required by the College of Arts and Science. Please see the appropriate pages of this catalog for the courses approved to satisfy them.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ECONOMICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: ECONOMICS (ECA)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

	3			X or	X
--	---	--	--	------	---

Foreign Language: Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.

	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
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or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
---	---	--	--	--	--

or

One of the following:

M 221 Calculus I	3				
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M 241 Analytic Geometry and Calculus A	4				
--	---	--	--	--	--

or

Successful performance on the college proficiency examination.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ECONOMICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: ECONOMICS (ECA)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X

MAJOR REQUIREMENTS

Within the Department

EC 151 Introduction to Microeconomics	3	X			
EC 152 Introduction to Macroeconomics	3	X			
EC 302 Money, Credit and Banking	3		X	X	X
EC 401 300 Intermediate Microeconomic Theory	3		X	X	X
EC 402 303 Intermediate Macroeconomic Theory	3		X	X	X
EC xxx Five Economics courses, two of which are at or above the 400-level. Three	15 18		X	X	X

Within the College

ST 201 Introduction to Statistics I	3	X	X	X	X
or					
ST 370 Introduction to Statistical Analysis I	3				
ST 202 Introduction to Statistics II	3	X	X	X	X
or					
ST 371 Introduction to Statistical Analysis II	3				

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ECONOMICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: ECONOMICS (ECA)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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xx xxx Nine credits chosen from any 300-level or higher course in Anthropology, Business Administration, Computer Science, Geography, History, Mathematics, Philosophy, Political Science, Psychology, Sociology and Statistics. Also acceptable are ACC 207/208 and any 200-level Mathematics course.	9		X	X	X
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ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

X	X	X	X
---	---	---	---

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

UNIVERSITY OF DELAWARE INTER-DEPARTMENTAL

Memorandum



7 February 1990

To: Professor Jeffrey Davidson
Chair, Educational Affairs Committee

From: Mary Donaldson-Evans *Mary Donaldson-Evans*
Associate Chair
Department of Foreign Languages & Literatures

Subject: Curricular Changes

The changes in our Foreign Language Education curricula were made with the explicit goal of achieving more uniformity among the languages, and thus a more coherent program.

All of the new FLE majors now require 30 credits in the content area, as well as 6 professional courses, three of them content-specific (we have withdrawn FLL 423 as a requirement for this program). To the extent possible, all the FLE curricula include courses in reading and composition, culture, advanced language, and literature. Finally, we have tried to build some flexibility into the French, German, and Spanish programs so that students who elect to spend a semester abroad with the University of Delaware programs will not be disadvantaged.

The Russian Studies major and the Russian Education major underwent the most extensive changes. Since September, 1989, the Russian Program at the University has been staffed by two new faculty members, Associate Professor Susan Amert (PhD Yale 1983) and Assistant Professor Alexander Lehrmann (PhD Yale 1985) who have revamped the curriculum to make it competitive with national and international standards as well as to bring it up to the level of the French, Spanish and German programs. To this end, certain courses have been added to the curriculum, certain courses have been deleted, and others modified. In accordance with these changes in the Russian curriculum, the requirements for both the Russian Studies major and the Russian Education major have been altered.

The German Education major was also modified substantially, and for similar reasons (in the past two years, there have been extensive curricular changes following the hiring of three new faculty members in German, Richard Zipser, Monika Shafi, and Willy Reimer).

Three- and four- languages majors

These have not been altered in any substantive way. We will continue to require 2 language courses for "Language Three" in the Three Languages Major, and two language courses for "Language Two," "Language Three," and "Language Four" in the Four Languages Major. The change in the credit designation (it previously read "6 credits" in each of the above cases, and will be altered to read "6-8 credits") is meant simply to reflect the fact that the Department of Foreign Languages and Literature is phasing out the 3-credit foreign language courses at the 100-level in favor of 4-credit courses. Hence, for students entering the program without previous FL experience, "two courses" will most likely mean 8 credits, whereas transfer students or students who have fulfilled this requirement with our (soon to be obsolete) 3-credit courses may have only 6 credits.

College: Arts and Science
 Department: Foreign Languages & Literatures
 Degree: Bachelor of Arts
 Major: French Education (XFR)

Suggested Curriculum

Major Requirements

Within the Department

FR 201	Fr. Read. & Comp: Sht. Story	3
or		
FR 202	Fr. Read. & Comp: Theatre	
FR 301	Fr. Lit.: Poetry & Theatre	3
FR 302	Fr. Lit.: Prose	3
FR 304	French Phonetics	3
FR 303,	Intensive French Composition	
* 306,	Practical Oral/Written Exp.	3
or 309	Cont. Fr. Lit. & Cinema	
Two of		
* FR 308	Contemporary France II	
FR 310	French Civilization I	6
FR 311	French Civilization II	
FR 312	French Civilization III	
FR 401,	Advanced French Grammar	
402,	Advanced French Comp.	
403,	His. & Evol. of Fr. Lang.	3
* 406	Advanced French Language	
or		
LIN 440		
FR 4xx	French Literature courses at the 400-level	6

Professional Studies

EDS 201	Education and Society	3
EDS 304	Psychological Foundations of Education	3
EDS 305	Educational Psychology	3
LIN 421	Methods of Teaching Foreign Language	3
LIN 422	Language Syllabus Design	3
LIN 424	Second Language Testing	3
EDD 400	Student Teaching	6-9

* Pending Approval

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ~~LINGUISTICS~~ *Foreign Languages & Literatures*
 DEGREE: BACHELOR OF ARTS
 MAJOR: FRENCH EDUCATION (XFR)

PAGE 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or X	
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
or					
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
or					
One of the following:					
M 221 Calculus I	3				
M 241 Analytic Geometry and Calculus A	4				
or					
Successful performance on the college proficiency examination.					

Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X
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COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: LINGUISTICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: FRENCH EDUCATION (XFR)

Foreign Languages & Literatures

PAGE 2

SUGGESTED CURRICULUM

CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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MAJOR REQUIREMENTS

Two of FR 308, 310, 311, 312 (Civ.)

402, 403, 406 or LIN 440 (Lang.)

Within the Department

FR 304	French Phonetics	3	X	X	X	X
FR 301	Survey of French Literature: Poetry & Theatre	3	X	X	X	X
FR 302	Survey of French Literature: Prose	3	X	X	X	X
FR 311	French (Civilization)	3	X	X	X	X
FR 401	Advanced French Grammar	3	X	X	X	X
FR 403	History and Evolution of the French Language	3	X	X	X	X
FR 201 or 202	(Reading & Composition)	3	X	X	X	X
FR 205	French Conversation	3				
FR 306	Advanced French Conversation	3				
FR 312	Contemporary French Civilization	3				
FR 4xx	French Literature courses at the 400-level	6	X	X	X	X
FR 303, 305, 306 or 309	(Conversation, etc.)	3	X	X	X	X

Within the College

LIN 4xx	Two linguistics or interpretation courses at the 400-level including:	6	X	X	X	X
LIN 422	Language Syllabus Design	3				

Professional Studies

EDS 201	Education an Society	3	X	X	X	X
EDS 304	Psychological Foundations of Education	3	X	X	X	X
EDS 303	Educational Psychology	3	X	X	X	X
LIN 421	Methods of Teaching Foreign Language	3				X
LIN 424	Second Language Testing	3				X
EDD 400	Student Teaching	6-9				

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

*This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.



UNIVERSITY OF DELAWARE INTER-DEPARTMENTAL

Memorandum



7 February 1990

To: Professor Jeffrey Davidson
Chair, Educational Affairs Committee

From: Mary Donaldson-Evans *Mary Donaldson-Evans*
Associate Chair
Department of Foreign Languages & Literatures

Subject: Curricular Changes

The changes in our Foreign Language Education curricula were made with the explicit goal of achieving more uniformity among the languages, and thus a more coherent program.

All of the new FLE majors now require 30 credits in the content area, as well as 6 professional courses, three of them content-specific (we have withdrawn FLL 423 as a requirement for this program). To the extent possible, all the FLE curricula include courses in reading and composition, culture, advanced language, and literature. Finally, we have tried to build some flexibility into the French, German, and Spanish programs so that students who elect to spend a semester abroad with the University of Delaware programs will not be disadvantaged.

The Russian Studies major and the Russian Education major underwent the most extensive changes. Since September, 1989, the Russian Program at the University has been staffed by two new faculty members, Associate Professor Susan Amert (PhD Yale 1983) and Assistant Professor Alexander Lehrmann (PhD Yale 1985) who have revamped the curriculum to make it competitive with national and international standards as well as to bring it up to the level of the French, Spanish and German programs. To this end, certain courses have been added to the curriculum, certain courses have been deleted, and others modified. In accordance with these changes in the Russian curriculum, the requirements for both the Russian Studies major and the Russian Education major have been altered.

The German Education major was also modified substantially, and for similar reasons (in the past two years, there have been extensive curricular changes following the hiring of three new faculty members in German, Richard Zipser, Monika Shafi, and Willy Reimer).

Three- and four- languages majors

These have not been altered in any substantive way. We will continue to require 2 language courses for "Language Three" in the Three Languages Major, and two language courses for "Language Two," "Language Three," and "Language Four" in the Four Languages Major. The change in the credit designation (it previously read "6 credits" in each of the above cases, and will be altered to read "6-8 credits") is meant simply to reflect the fact that the Department of Foreign Languages and Literature is phasing out the 3-credit foreign language courses at the 100-level in favor of 4-credit courses. Hence, for students entering the program without previous FL experience, "two courses" will most likely mean 8 credits, whereas transfer students or students who have fulfilled this requirement with our (soon to be obsolete) 3-credit courses may have only 6 credits.

College: Arts and Science
 Department: Foreign Languages & Literatures
 Degree: Bachelor of Arts
 Major: German Education (XGR)

Suggested Curriculum

Major Requirements

Within the Department

GER 203	German Grammar Review	3
or		
GER 205	German Conversation	
* GER 211	Ger.Rdg.&Comp: Sht.Fiction	3
or		
* GER 212	Ger.Rdg.&Comp: Drama	
GER 305	German Conv. & Comp.	3
or		
* GER 306	Practical Oral/Written Exp.	
* GER 311	Intro to German Lit. I	6
and		
* GER 312	Intro to Ger. Lit. II	
* GER 308	Contemporary Germany II	3
or		
* GER 325	Ger. Civilization & Culture	
GER 340	Focus on Genre:Ger.Drama,etc.	3
or		
GER 355	Special Topics	
GER 404,	His. of German Language	3
* GER 406,	Advanced German Language	
or		
LIN 460	The Structure of German	
GER 4xx	Six credits in literature at the 400-level	6

Professional Studies

EDS 201	Education and Society	3
EDS 304	Psychological Foundations of Education	3
EDS 305	Educational Psychology	3
LIN 421	Methods of Teaching Foreign Language	3
LIN 422	Language Syllabus Design	3
LIN 424	Second Language Testing	3
EDD 400	Student Teaching	6-9

* Pending approval

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ~~LINGUISTICS~~ *Foreign Languages & Literatures*
 DEGREE: BACHELOR OF ARTS
 MAJOR: GERMAN EDUCATION (XGR)

PAGE 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

	3			X or X	
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Foreign Language: Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.

	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
or					
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
or					
One of the following:					
M 221 Calculus I	3				
M 241 Analytic Geometry and Calculus A	4				

or
 Successful performance on the college proficiency examination.

Breadth Requirements*

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.

	12	X	X	X	X
--	----	---	---	---	---

Group B. The study of culture and institutions over time. Twelve credits representing at least two departments.

	12	X	X	X	X
--	----	---	---	---	---

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two departments.

	12	X	X	X	X
--	----	---	---	---	---

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.

	13	X	X	X	X
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COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: LINGUISTICS
 DEGREE: BACHELOR OF ARTS
 MAJOR: GERMAN EDUCATION (XGR)

PAGE 2

SUGGESTED CURRICULUM

CREDITS TYPICAL FRESHMAN TYPICAL SOPHOMORE TYPICAL JUNIOR TYPICAL SENIOR
 COMPLETES COMPLETES COMPLETES COMPLETES

MAJOR REQUIREMENTS

Within the Department

GER 325 or 308 (Civil.)	3				
GER 340 (Focus on Genre) or 355	3				
GER 211 (Short Fiction) or 212	3				
GER 201 German Readings and Composition	3	X	X	X	X
GER 202 German Readings and Composition	3	X	X	X	X
GER 205 German Conversation	3	X	X	X	X
GER 305 Advanced German Conversation	3				
GER 301 Advanced German Grammar and Syntax	3	X	X	X	X
GER 302 Survey of German Literature (or substitute)	3	X	X	X	X
GER 411 German Civilization and Culture	3	X	X	X	X
GER 403 Structure of the German Language	3	X	X	X	X
GER 404 History of the German Language	3	X	X	X	X
GER 4xx Six credits in literature at the 400-level	6	X	X	X	X

Within the College

LIN 4xx Two Linguistics or Interpretation courses at the 400 level including	3	X	X	X	X
LIN 422 Language Syllabus Design	3				

Professional Studies

EDS 201 Education and Society	3	X	X	X	X
EDS 300 Psychological Foundations of Education	3	X	X	X	X
EDS 302 Educational Psychology	3	X	X	X	X
LIN 421 Methods of Teaching Foreign Language	3				X
LIN 424 Second Language Testing	3				X
EDD 400 Student Teaching	6-9				

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

College: Arts and Science
 Department: Foreign Languages & Literatures
 Degree: Bachelor of Arts
 Major: Latin Education (XLE)

Suggested Curriculum

Major Requirements

Within the Department

LAT 2XX		6
LAT 321	Latin Prose Composition	1
and		
LAT 322	Latin Prose Composition	1
LAT 3xx		9
LAT 4XX		
LAT 421		
and		
LAT 422	Advanced Latin Prose Composition	2
LAT 431		
and		
LAT 432	History of Latin Literature	2
LAT 4xx		9

Professional Studies

EDS 201	Education and Society	3
EDS 304	Psychological Foundations	
	of Education	3
EDS 305	Educational Psychology	3
LIN 421	Methods of Teaching Foreign	
	Language	3
LIN 422	Language Syllabus Design	3
LIN 424	Second Language Testing	3
EDD 400	Student Teaching	6-9

* Pending approval

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: LATIN EDUCATION (XLE)

PAGE 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or X	
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
--	---	---	--	--	--

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
--	---	--	--	--	--

or

One of the following:

M 221 Calculus I	3				
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M 241 Analytic Geometry and Calculus A	4				
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or

Successful performance on the college proficiency examination.

Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
--	----	---	---	---	---

<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
--	----	---	---	---	---

<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X
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COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: LATIN EDUCATION (XLE)

PAGE 2

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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MAJOR REQUIREMENTS

LAT 2--

Within the Department

LAT 321 Latin Prose Composition	3	X	X	X	X
LAT 322 Latin Prose Composition	3	X	X	X	X
LAT 201 Roman Letters	3	X	X	X	X
LAT 202 Historians of the Republic	3	X	X	X	X
LAT 301 Roman Drama 3-- 4--	3	X	X	X	X
LAT 302 Roman Didactic Poetry	3	X	X	X	X
LAT 303 Historians of the Empire	3	X	X	X	X
LAT 401 Roman Elegiac Poetry	3	X	X	X	X
LAT 402 Roman Satire	3	X	X	X	X
LAT 421 Advanced Latin Prose Composition	2	X	X	X	X
LAT 422 Advanced Latin Prose Composition	3	X	X	X	X
LAT 431 History of Latin Literature 4--	4	X	X	X	X
LAT 432 History of Latin Literature	4	X	X	X	X
LAT 431 & 432 History of Latin Lit.	8	X	X	X	X
FLT 215 Greek Literature in English Translation	3	X	X	X	X

Within the College

LIN 422 Language Syllabus Design	3	X	X	X	X
LIN 424 Second Language Testing	3	X	X	X	X

Professional Studies

EDS 201 Education and Society	3	X	X	X	X
EDS 301 Psychological Foundations of Education	3	X	X	X	X
EDS 302 Educational Psychology	3	X	X	X	X
LIN 421 Methods of Teaching Foreign Language	3				X
EDD 400 Student Teaching	6-9				X

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

College: Arts and Science
 Department: Foreign Languages & Literatures
 Degree: Bachelor of Arts
 Major: Russian Education (XRU)

Suggested Curriculum

Major Requirements

Within the Department

One of		
RU 203	Russian Grammar Review	
RU 205	Russian Conversation	3
* RU 206	Practical Oral/Written Express.	
* RU 211	Russian Reading & Composition	3
* RU 305	Russian Conv. & Composition	3
Two of		
* RU 310	Introduction to RU Lit. I	
* RU 312	Introduction to RU Lit. II	
	or	6
* RU 325	Russian Civil. & Culture	
* RU 401	Adv. RU Grammar & Comp.	3
RU 4xx	Six credits in Russian lit. at the 400-level	6

Related Work:

* FLL 327	Tpcs.: RU Lit. in Transl.	3
* FLL 375	Tpcs.: RU & Soviet Culture	3

Professional Studies

EDS 201	Education and Society	3
EDS 304	Psychological Foundations of Education	3
EDS 305	Educational Psychology	3
LIN 421	Methods of Teaching Foreign Language	3
LIN 422	Language Syllabus Design	3
LIN 424	Second Language Testing	3
EDD 400	Student Teaching	6-9

* Pending Approval

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: RUSSIAN EDUCATION (XRU)

PAGE 1

SUGGESTED CURRICULUM	CREDITS	TYPICAL FRESHMAN COMPLETES	TYPICAL SOPHOMORE COMPLETES	TYPICAL JUNIOR COMPLETES	TYPICAL SENIOR COMPLETES
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or X	
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
or					
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
or					
One of the following:					
M 221 Calculus I	3				
M 241 Analytic Geometry and Calculus A	4				

Successful performance on the college proficiency examination.

Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: RUSSIAN EDUCATION (XRU)

PAGE 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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MAJOR REQUIREMENTS

Within the Department

RU 105	Intensive Elementary Russian	4	X	X	X	X
RU 106	Intensive Elementary Russian	4	X	X	X	X
RU 107	Intensive Intermediate Russian	4	X	X	X	X
RU 201	Introduction to Russian Literature	3	X	X	X	X
RU 202	Introduction to Russian Literature	3	X	X	X	X
RU 205	Advanced Russian Conversation and Composition	3	X	X	X	X
or						
RU 206	Advanced Russian Conversation and Composition	3				
RU 301	Nineteenth and Twentieth Century Russian Literature	3	X	X	X	X
RU 302	Nineteenth and Twentieth Century Russian Literature	3	X	X	X	X

Within the College

LIN 422	Language Syllabus Design	3	X	X	X	X
LIN 424	Second Language Testing	3	X	X	X	X

Professional Studies

EDS 201	Education and Society	3	X	X	X	X
EDS 301	Psychological Foundations of Education	3	X	X	X	X
EDS 302	Educational Psychology	3	X	X	X	X
LIN 421	Methods of Teaching Foreign Language	3				X
EDD 400	Student Teaching	6-9				X

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

College: Arts and Science
 Department: Foreign Languages & Literatures
 Degree: Bachelor of Arts
 Major: Spanish Education (XSP)

Suggested Curriculum

Major Requirements

Within the Department

SP 203	Spanish Reading & Composition	3
or		
SP 204	Spanish Comp. & Grammar	
SP 211,	Spanish Civil. & Culture	
SP 212,	Latin Am. Civil. & Culture	3
or		
* SP 308	Contemporary Spain II	
Any three of the following four literature survey courses:		
SP 301	Survey of Spanish Literature	
SP 302	Survey of Spanish Literature	9
SP 303	Survey of Spanish-American Lit.	
SP 304	Survey of Spanish-American Lit.	
SP 305	Oral Communication	
or		
* SP 306	Practical Oral/Written Exp.	3
SP 314	Spanish Phonetics and Phonology	3
SP 401,	Advanced Spanish Grammar	
SP 403,	History of the Spanish Lang.	
* SP 406,	Advanced Spanish Language	3
or		
LIN 431	Applied Spanish Linguistics	
SP 4xx	Six credits in literature at the 400-level	6

Professional Studies

EDS 201	Education and Society	3
EDS 304	Psychological Foundations of Education	3
EDS 305	Educational Psychology	3
LIN 421	Methods of Teaching Foreign Language	3
LIN 422	Language Syllabus Design	3
LIN 424	Second Language Testing	3
EDD 400	Student Teaching	6-9

* Pending approval

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: LINGUISTICS- *Foreign Languages & Literatures*
 DEGREE: BACHELOR OF ARTS
 MAJOR: SPANISH EDUCATION (XSP)

PAGE 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X	or X
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
---	------	---	---	---	---

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
--	---	---	--	--	--

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
--	---	--	--	--	--

or

One of the following:

M 221 Calculus I	3				
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M 241 Analytic Geometry and Calculus A	4				
--	---	--	--	--	--

or

Successful performance on the college proficiency examination.

Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
---	----	---	---	---	---

<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
--	----	---	---	---	---

<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
--	----	---	---	---	---

<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X
--	----	---	---	---	---

College: Arts and Science
 Department: Foreign Languages & Literatures
 Degree: Bachelor of Arts
 Major: Russian Studies (FLR)

Suggested Curriculum

Major Requirements

Within the Department

RU	xxx	Twelve credits in Russian electives at the 200-level and above	12
RU	3xx or 4xx	Twelve credits in Russian literature at the 300 or 400-level (at least six credits must be at the 400-level)	12
*	FLL 327	Topics: Russian Literature in Translation	3
*	FLL 375	Topics: Russian and Soviet Culture in Translation	3

Within the College

xx	xxx	A total of nine credits at the 200-level or above, chosen with prior approval of the adviser and according to option require- ments, from the following areas: Russian, Art History, Comparative Literature, English, Foreign Languages & Literatures, History, Linguistics, Music, Political Science.	9
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* Pending Approval

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ~~LINGUISTICS~~ *Foreign Languages + Literatures*
 DEGREE: BACHELOR OF ARTS
 MAJOR: SPANISH EDUCATION (XSP)

PAGE 2

SUGGESTED CURRICULUM

CREDITS TYPICAL FRESHMAN TYPICAL SOPHOMORE TYPICAL JUNIOR TYPICAL SENIOR
 COMPLETES COMPLETES COMPLETES COMPLETES

MAJOR REQUIREMENTS

Within the Department

SP 203 or 204 (Reading + Comp.)	3				
SP 205 Practical Spoken English	3	X	X	X	X
or 306					
SP 305 Oral Communication	3				
SP 211 Spanish Civilization and Culture	3	X	X	X	X
or 212 or 308					
SP 212 Latin American Civilization and Culture	3				
SP 314 Spanish Phonetics and Phonology	3	X	X	X	X
Any three of the following four literature survey courses:	9	X	X	X	X
SP 301 Survey of Spanish Literature	3				
SP 302 Survey of Spanish Literature	3				
SP 303 Survey of Spanish-American Literature	3				
SP 304 Survey of Spanish-American Literature	3				
Any two of the following three courses:	3	X	X	X	X
SP 401 Advanced Spanish Grammar	3				
LIN 431 Applied Spanish Linguistics (strongly recommended)	3				
SP 403 History of the Spanish Language	3				
Six					
SP 4xx Three credits in literature at the 400-level	6	X	X	X	X

Within the College

LIN 4xx Two linguistics or interpretation courses at the 400-level including:	6	X	X	X	X
LIN 422 Language Syllabus Design	3				

Professional Studies

EDS 201 Education and Society	3	X	X	X	X
EDS 301 Psychological Foundations of Education	3	X	X	X	X
EDS 302 Educational Psychology	3	X	X	X	X
LIN 421 Methods of Teaching Foreign Language	3				X
LIN 424 Second Language Testing	3				X
EDD 400 Student Teaching	6-9				X

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

*This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: RUSSIAN STUDIES (FLR)

Page

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or	X
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
or					
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
or					
One of the following:					
M 221 Calculus I	3				
M 241 Analytic Geometry and Calculus A	4				
or					

Successful performance on the college proficiency examination.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: RUSSIAN STUDIES (FLR)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Breadth Requirements*</u>					
<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X

MAJOR REQUIREMENTS

Within the Department

RU xxx	Six credits at the 200-level or above	6	X	X	X	X
RU xxx	Three credits at the 300 or 400-level	3	X	X	X	X
RU xxx	Three credits at the 400-level	3	X	X	X	X
RU xxx	Six credits in literature at the 300 or 400-level	6	X	X	X	X
RU xxx	Six credits in literature at the 400-level	6	X	X	X	X

Within the College

xx xxx	A total of twelve to fifteen credits at the 200-level or above, chosen with prior approval of the adviser and according to option requirements, from the following areas: Russian, Anthropology, Art History, Comparative Literature, English, Foreign Languages and Literatures, History, Linguistics, Music, Philosophy, Political Science, Theatre.	12-15	X	X	X	X
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COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: RUSSIAN STUDIES (FLR)

Page

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	TYPICAL FRESHMAN <u>COMPLETES</u>	TYPICAL SOPHOMORE <u>COMPLETES</u>	TYPICAL JUNIOR <u>COMPLETES</u>	TYPICAL SENIOR <u>COMPLETES</u>
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ELECTIVES

Electives

X	X	X	X
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After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

*This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*For the different options available under the Russian Studies concentration (language and literature, area studies, period studies), students should see their adviser or the Associate Chair of the Department.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

Note: See the Associate Chair of the department for detailed requirements. The faculty of each program shall determine specific course requirements which may be more stringent than the minima listed above.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: FOUR LANGUAGES (FL4)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or	X
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
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or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
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or

One of the following:

M 221 Calculus I	3				
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M 241 Analytic Geometry and Calculus A	4				
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or

Successful performance on the college proficiency
examination.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: FOUR LANGUAGES (FL4)

Page

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Breadth Requirements*</u>					
<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X

MAJOR REQUIREMENTS

Within the Departments

Language One

xx xxx Six credits at the 200-level or above	6	X	X	X	X
xx xxx Three credits in literature at the 300-level	3	X	X	X	X
xx xxx Three credits in literature at the 300 or 400-level	3	X	X	X	X
xx xxx Three credits in literature at the 400-level	3	X	X	X	X
xx xxx Three credits at the 400-level	3	X	X	X	X

Language Two

xx xxx <i>Six-eight</i> five credits of language courses	<i>6-8</i>	X	X	X	X
xx xxx Six credits at the 200-level and above	6	X	X	X	X

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: FOUR LANGUAGES (FL4)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Language Three

xx xxx <i>Six-eight</i> 3 credits of language courses	6-8	X	X	X	X
xx xxx Three credits of courses (at the 200-level or above if a Western language is selected)	3	X	X	X	X

Language Four

xx xxx <i>Six-eight</i> 6 credits of language courses (at the intermediate-level or above if a Western language is selected)	6-8	X	X	X	X
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Within the College

LIN xxx Three credits in Linguistics courses at the 200, 300 or 400-level	3	X	X	X	X
xx xxx Three credits of courses selected in consultation with the adviser, from Foreign Languages and Literatures, Comparative Literature or Linguistics	3	X	X	X	X

ELECTIVES

Electives

X	X	X	X
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After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: THREE LANGUAGES (FL3)

Page

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or	
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
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or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
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or

One of the following:

M 221 Calculus I	3				
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M 241 Analytic Geometry and Calculus A	4				
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or

Successful performance on the college proficiency examination.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: THREE LANGUAGES (FL3)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
<u>Breadth Requirements*</u>					
<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X

MAJOR REQUIREMENTS

Within the Departments

Languages One and Two (Identical Requirements for Each)

xx xxx	Six credits at the 200-level or above	6	X	X	X	X
xx xxx	Three credits in literature at the 300-level	3	X	X	X	X
xx xxx	Three credits in literature at the 300 or 400-level	3	X	X	X	X
xx xxx	Three credits in literature at the 400-level	3	X	X	X	X
xx xxx	Three credits at the 400-level	3	X	X	X	X

Language Three

xx xxx	<i>six-eight</i> Six credits of language courses	6-8	X	X	X	X
xx xxx	Three credits of courses (at the 200-level or above if a Western language is selected)	3	X	X	X	X

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: FOREIGN LANGUAGES AND LITERATURES
 DEGREE: BACHELOR OF ARTS
 MAJOR: FOREIGN LANGUAGES AND LITERATURES
 CONCENTRATION: THREE LANGUAGES (FL3)

Page

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Within the College

LIN xxx	Three credits of Linguistics courses at the 200, 300 or 400-level	3	X	X	X	X
xx xxx	Three credits selected in consultation with the adviser, from Foreign Languages and Literatures, Comparative Literature, or Linguistics.	3	X	X	X	X

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

X X X X

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

To replace ~~X~~ Attachment 21

Degree: Bachelor of Science
Major: Visual Communications

Major Requirements

Art 110	Foundation I Design.....	3 ¹
Art 111	Foundation I Drawing.....	3 ¹
Art 112	Foundation II Drawing	3 ¹

One required course selected from 2-D study:

Art 122	Illustration I.....	3 ¹
Art 140	Introduction to Printmaking.....	3 ¹
Art 234	Painting 1.....	3 ¹
Art 244	Photography I.....	3 ¹

One required course selected from 3-D study:

Art 170	Basic Design: Fibers/CAD.....	3 ¹
Art 250	Sculpture I.....	3 ¹
Art 254	Ceramics I.....	3 ¹
Art 260	Metals I.....	3 ¹

Art electives (2).....6¹⁻⁴

Art 200	Visual Communications Process I.....	4 ²
Art 201	Visual Communications Process II	4 ²
Art 210	Photo Design.....	4 ²
Art 302	Introduction to Graphic Design.....	3 ³
Art 304	Introduction to Advertising Design	3 ³
Art 310	Introduction to Applied Photography.....	3 ³
Art 408	Practicum.....	3 ⁴

Required for Visual Communications majors concentrating in graphic design

Art 303	Graphic Design.....	3 ³
Art 305	Advertising Design.....	3 ³
Art 402	Advanced Graphic Design I.....	6 ⁴
Art 403	Advanced Graphic Design II.....	6 ⁴

Required for Visual Communications majors concentrating in advertising design

Art 303	Graphic Design.....	3 ³
Art 305	Advertising Design.....	3 ³
Art 404	Advanced Advertising Design I.....	6 ⁴
Art 405	Advanced Advertising Design II.....	6 ⁴

Required for Visual Communications majors concentrating in Applied Photography

	Photography elective.....	3 ³
Art 311	Applied Photography.....	3 ³
Art 410	Advanced Applied Photography I.....	6 ⁴
Art 411	Advanced Applied Photography II	6 ⁴

**DEGREE: BACHELOR OF SCIENCE
MAJOR: VISUAL COMMUNICATION**
SUGGESTED CURRICULUM
UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

MAJOR REQUIREMENTS

ART 110 Foundation Drawing
ART 111 Foundation I Design
ART 112 Foundation II Drawing

One required course selected from 2-D study:

ART 140 Introduction to Printmaking
ART 234 Painting I
ART 244 Photography I

One required course selected from 3-D study:

ART 170 Basic Design: Fibers/CAD
ART 200 Visual Communications Process I
ART 201 Visual Communications Process II
ART 210 Visual Communications Photography I
ART 211 Visual Communications Photography II

ART 250 Sculpture I
ART 254 Ceramics I
ART 260 Metals I

ART 302 Design for Art Studios I
ART 304 Design for Advertising Agencies I

ART 306 Visual Communications Comping

ART 307 Visual Communications Writing

ART 312 Graphic Design Photography

ART 314 Advertising Design Photography

ART 400 Advanced Visual Communications Process

ART 401 Portfolio Preparation

ART 402 Design for Art Studios II

ART 404 Design for Advertising Agencies II

ART 408 Practicum

Within the College
Related Work

Art History courses

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

or

One of the following:

M 221 Calculus I

M 241 Analytic Geometry and Calculus A

or

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Six credits from an area other than Art or Art History

Group B. The study of culture and institutions over time.

Group C. Empirically based study of human beings and their environment.

CREDITS*

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6¹⁻⁴

6¹⁻⁴

SUGGESTED CURRICULUM

Group D. The study of natural phenomena through experiment and analysis. Seven credits representing at least two areas including a minimum of one course with an associated laboratory.

ELECTIVES
Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

**DEGREE: BACHELOR OF ARTS
MAJOR: FINE ARTS**
SUGGESTED CURRICULUM
UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS
Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

Foreign Language: Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

or

One of the following:

M 221 Calculus I

M 241 Analytic Geometry and Calculus A

or

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

†A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

DEGREE: BACHELOR OF SCIENCE
MAJOR: VISUAL COMMUNICATION

SUGGESTED CURRICULUM	CREDITS*
UNIVERSITY REQUIREMENTS	
E 110 Critical Reading and Writing	3 ¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*	3 ¹⁻⁴

MAJOR REQUIREMENTS

Within the Department	
ART 110 Foundation I Drawing	3 ¹
ART 111 Foundation I Design	3 ¹
ART 112 Foundation II Drawing	3 ¹
ART 113 Foundation II Design	3 ¹
ART 200 Visual Communications Process I	3 ²
ART 201 Visual Communications Process II	3 ²
ART 210 Visual Communications Photography I	3 ²
ART 211 Visual Communications Photography II	3 ²
ART 302 Design for Art Studios I	3 ³
ART 304 Design for Advertising Agencies I	3 ³
ART 306 Visual Communications Comping	3 ³
ART 307 Visual Communications Writing	3 ³
ART 312 Graphic Design Photography	3 ³
ART 314 Advertising Design Photography	3 ³
ART 400 Advanced Visual Communications Process	3 ⁴
ART 401 Portfolio Preparation	3 ⁴
ART 402 Design for Art Studios II	3 ⁴
ART 404 Design for Advertising Agencies II	3 ⁴
ART 408 Practicum	3 ⁴

Within the College

<i>Related Work</i>	
Art History courses	9 ¹⁻⁴

Skill Requirements

<i>Writing:</i> A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3 ^{3,4}
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3 ¹
--	----------------

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3
--	---

or

One of the following:	
-----------------------	--

M 221 Calculus I	3
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M 241 Analytic Geometry and Calculus A	4
--	---

or

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 44)

<i>Group A.</i> Understanding and appreciation of the creative arts and humanities. Six credits from an area other than Art or Art History.	6 ¹⁻⁴
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<i>Group B.</i> The study of culture and institutions over time.	6 ¹⁻⁴
--	------------------

<i>Group C.</i> Empirically based study of human beings and their environment.	6 ¹⁻⁴
--	------------------

<i>Group D.</i> The study of natural phenomena through experiment and analysis. Seven credits representing at least two areas including a minimum of one course with an associated laboratory.	7 ¹⁻⁴
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SUGGESTED CURRICULUM**CREDITS*****ELECTIVES***Electives*

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

128

DEGREE: BACHELOR OF FINE ARTS
MAJOR: FINE ARTS

SUGGESTED CURRICULUM	CREDITS*
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3 ¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*	3 ¹⁻⁴

COLLEGE REQUIREMENTS*Skill Requirements*

<i>Writing:</i> A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3 ^{3,4}
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3 ¹
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or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3
--	---

or

One of the following:	
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M 221 Calculus I	3
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M 241 Analytic Geometry and Calculus A	4
--	---

or

Successful performance on the college proficiency exam.

Breadth Requirements† (See page 44)

<i>Group A.</i> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.	12 ¹⁻⁴
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<i>Group B.</i> The study of culture and institutions over time. Nine credits representing at least two areas.	9 ¹⁻⁴
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<i>Group C.</i> Empirically based study of human beings and their environment. Nine credits representing at least two areas.	9 ¹⁻⁴
--	------------------

<i>Group D.</i> The study of natural phenomena through experiment and analysis. A minimum of ten credits representing at least two areas including a minimum of one course with an associated laboratory.	10 ¹⁻⁴
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MAJOR REQUIREMENTS**Within the Department***Foundations*

ART 110 Foundation I Drawing	3 ¹
ART 111 Foundation I Design	3 ¹
ART 112 Foundation II Drawing	3 ¹
ART 113 Foundation II Design	3 ¹

* Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

* This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 19.

† A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

**Overview and explanation of Curriculum Changes
to the Visual Communications Program in the Department of Art**

2nd year of curriculum

Taking four existing three credit courses, dropping one applied photography (Art 211) and making the remaining three courses four credits each (Art 200, 201, 210). Keeps number of Visual Communications credits at twelve and changes the applied photography instructor to remove two sections of sophomore level applied photography and add two sections of senior/graduate level applied photography.

Art 200 - Revision

Catalog description changes, credits change from 3 to 4

Art 201 - Revision

Catalog description changes, credits change from 3 to 4

Art 210 - Revision

Catalog description changes, credits change from 3 to 4

Art 211 - Deleted from curriculum

3rd year of curriculum

Taking existing six courses, dropping two courses (Art 306 and 307) and replacing those with two revised courses (Art 303 and 305) forming a two course sequence in graphic design (Art 302 and A303) and a two course sequence in advertising design (Art 304 and 305), dropping two photography courses (Art 312 and 314) and replacing with two new applied photography courses (Art 310 and 311).

Art 302 - Revision (becomes first courses in "major concentration" sequence of Art 302, 303, 402 and 403 for graphic design majors)

Name changes, catalog description changes

Art 303 - Revision (becomes second courses in "major concentration" sequence of Art 302, 303, 402 and 403 for graphic design majors)

Name changes, catalog description changes

Art 304 - Revision (becomes first course in "major concentration" sequence of Art 304, 305, 404 and 405 for advertising design majors)

Name changes, catalog description changes

Art 305 - Revision (becomes second course in "major concentration" sequence of Art 304, 305, 404 and 405 for advertising design majors)

Name changes, catalog description changes

Art 306 - Deleted from curriculum

Art 307 - Deleted from curriculum

Art 309 - New course (offered only during Winter Session)

Art 310 - New course (becomes first in "major concentration" sequence of Art 310, 311, 410 and 411 for applied photography majors) - replaces Art 312

Art 311 - New course (becomes second course in "major concentration" sequence of Art 304, 305, 404 and 405 for applied photography majors) - replaces Art 314

Art 312 - Deleted from curriculum

Art 314 - Deleted from curriculum

4th year of curriculum

Taking existing four courses, dropping two (Art 400 and 401) and replacing with two new courses (Art 403 and 405), and making senior level courses six hours each

Art 400 - Deleted from curriculum

Art 401 - Deleted from curriculum

Art 402 - Revision (becomes third course in "major concentration" sequence of Art 304, 305, 404 and 405 for graphic design majors)

Name changes, catalog description changes, credits changes from three to six

Art 403 - New course (becomes fourth course in "major concentration" sequence of Art 304, 305, 404 and 405 for graphic design majors)

Art 404 - Revision (becomes third course in "major concentration" sequence of Art 304, 305, 404 and 405 for advertising design majors)

Name changes, catalog description changes, credits changes from three to six

Art 405 - New course (becomes fourth course in "major concentration" sequence of Art 304, 305, 404 and 405 for advertising design majors)

4th year of curriculum continued

Art 410 - New course (becomes third course in "major concentration" sequence of Art 304, 305, 404 and 405 for applied photography majors)

Art 411 - New course (becomes fourth course in "major concentration" sequence of Art 304, 305, 404 and 405 for applied photography majors)

Graduate component

Adding two courses (Art 610 and 611) for a graduate level component for applied photograph majors and to complement the fine arts graduate photography curriculum with an applied photography experience

Art 610 - New course - Graduate level component for applied and fine arts photography majors

Art 611 - New course - Graduate level component for applied and fine arts photography majors



University of Delaware

DEPARTMENT OF HISTORY
401 JOHN EWING HALL
NEWARK, DELAWARE 19716

(302) 451-2371

December 14, 1989

To: Jeff Davidson, Chairperson
Educational Affairs Committee
Arts and Science College Senate

From: Raymond Wolters, Chairperson
Undergraduate Studies Committee
Department of History

Raymond Wolters

The Department of History would like to make it possible for students to have their transcripts indicate that coursework has emphasized a particular area of history. Specifically, we want to allow students who have taken 12 history courses (instead of the 10 required for the regular major) to indicate a field of emphasis if at least seven of their courses have been in one of four fields of concentration. The fields of concentration are: American History, European History, Global History, and Policy History.

The present requirements for a major in history call for 30 credits which must include: a) H 101, H 102, and H 268; b) A course on the history of Asia, Africa, Latin America, or the Ancient World; c) Four courses at or above the 300-level; and d) A history seminar at the 400-level.

The requirements for the proposed 36-credit concentration program are: a) H 101, H 102, and H 268; b) A course on the history of Asia, Africa, Latin America, or the Ancient World; c) Seven courses in the field of concentration. With written approval of the advisor, a student may take two of these courses outside the Department of History. and d) A history seminar at the 400-level.

Upon written notificatin from the advisor, certifying that a student has satisfied the requirements of the proposed 36-credit concentration program, the Department would like the transcript to say Major: History (emphasis on _____). The Department has designated one professor as the advisor to students in each of the four areas of concentration. For American History, the advisor will be Professor Gary May. For European History, the advisor will be Professor John Bernstein. For Global History, the advior will be Professor David Pong; and for Policy History, Professor Guy Alchon,

I would appreciate your advice on how to proceed with this.
Thank you.

cc: Cindy Waksomski, Dean's Office

Major Requirements: History Concentration: European History

Within the Department

H 101 Western Civilization to 1648
H 102 Western Civilization: 1648 to the Present
H 268 Seminar
History Course on the history of Asia, Africa, Latin America,
 or the Ancient World
Seven courses in the field of emphasis. With written approval
 of the advisor, a student may take two of these
 courses outside the Department of History.
History seminar at the 400-level

Electives

After required courses are completed, sufficient elective
credits must be taken to meet the minimum credit requirement
for the degree.

SUGGESTED CURRICULUM

One of the following:

- M 221 Calculus I
- M 241 Analytical Geometry and Calculus A

Successful performance on the college proficiency exam.

Breadth Requirement (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

MAJOR REQUIREMENTS

Within the Department

- H 101 Western Civilization to 1648
- H 102 Western Civilization: 1648 to the Present
- H 268 Seminar
- History course on the third world or ancient history
- History courses at or above the 300 level
- History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)
- History course

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

3¹⁻⁴

3¹⁻⁴

124

SUGGESTED CURRICULUM

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in a given language or satisfactory performance on a placement test in the language of the student's choice.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

One of the following:

- M 221 Calculus I
- M 241 Analytical Geometry and Calculus A

Successful performance on the college proficiency exam.

Breadth Requirement (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

Within the Department

- H 101 Western Civilization to 1648
- H 102 Western Civilization: 1648 to the Present
- H 268 Seminar

A course on the third world or ancient history

History course

History courses at 300 level or above

History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department

Anthropology course

Economics course

Geography course

Political Science course

Sociology course

PSY 201 General Psychology

Six additional credits selected from the departments listed above.

Professional Studies

EDS 201 Education and Society

EDS 301 Psychological Foundations of Education

EDS 302 Educational Psychology

H 491 Planning a Course of Instruction

H 493 Seminar: Problems in Teaching History and Social Sciences

EDS 420 Reading in the Content Area

EDD 400 Student Teaching

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

0-12¹⁻⁴

3¹

3

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

24¹⁻⁴

3

3

3

3

3¹⁻⁴

3¹⁻⁴

6¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹

3¹

1¹⁻⁴

9¹

124

DEGREE: BACHELOR OF ARTS MAJOR: HISTORY EDUCATION

SUGGESTED CURRICULUM

UNIVERSITY REQUIREMENTS

- E 110 Critical Reading and Writing
- Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

CREDITS*

3¹

3¹⁻⁴

3¹⁻⁴

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.
*This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

†A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

Major Requirements: History Concentration: Global History

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

History Course on the history of Asia, Africa, Latin America,
or the Ancient World

Seven courses in the field of emphasis. With written approval
of the advisor, a student may take two of these
courses outside the Department of History.

History seminar at the 400-level

Electives

After required courses are completed, sufficient elective
credits must be taken to meet the minimum credit requirement
for the degree.

SUGGESTED CURRICULUM

One of the following:

- M 221 Calculus I
- M 241 Analytical Geometry and Calculus A

or
Successful performance on the college proficiency exam.

Breadth Requirement† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

MAJOR REQUIREMENTS

Within the Department

- H 101 Western Civilization to 1648
- H 102 Western Civilization: 1648 to the Present
- H 268 Seminar
- History course on the third world or ancient history
- History courses at or above the 300 level
- History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)
- History course

ELECTIVES

Electives
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

124

SUGGESTED CURRICULUM

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in a given language or satisfactory performance on a placement test in the language of the student's choice.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

or
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

One of the following:

- M 221 Calculus I
- M 241 Analytical Geometry and Calculus A

or
Successful performance on the college proficiency exam.

Breadth Requirement† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

Within the Department

- H 101 Western Civilization to 1648
- H 102 Western Civilization: 1648 to the Present
- H 268 Seminar
- A course on the third world or ancient history
- History course
- History courses at 300 level or above
- History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department

- Anthropology course
- Economics course
- Geography course
- Political Science course
- Sociology course
- PSY 201 General Psychology
- Six additional credits selected from the departments listed above.

Professional Studies

- EDS 201 Education and Society
- EDS 301 Psychological Foundations of Education
- EDS 302 Educational Psychology
- H 491 Planning a Course of Instruction
- H 493 Seminar: Problems in Teaching History and Social Sciences
- EDS 420 Reading in the Content Area
- EDD 400 Student Teaching

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

0-12¹⁻⁴

3¹

3

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

3¹

24¹⁻⁴

3

3

3

3

3

3¹⁻⁴

3¹⁻⁴

6¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹

3¹

1¹⁻⁴

9¹

124

DEGREE: BACHELOR OF ARTS MAJOR: HISTORY EDUCATION

SUGGESTED CURRICULUM

UNIVERSITY REQUIREMENTS

- E 110 Critical Reading and Writing
- Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

CREDITS*

3¹

3¹⁻⁴

3²⁴

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.
†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

†A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

Major Requirements: History Concentration: American History

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

History Course on the history of Asia, Africa, Latin America,
or the Ancient World

Seven courses in the field of emphasis. With written approval
of the advisor, a student may take two of these
courses outside the Department of History.

History seminar at the 400-level

Electives

After required courses are completed, sufficient elective
credits must be taken to meet the minimum credit requirement
for the degree.

SUGGESTED CURRICULUM

One of the following:

M 221 Calculus I

M 241 Analytical Geometry and Calculus A

or

Successful performance on the college proficiency exam.

Breadth Requirement† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

MAJOR REQUIREMENTS

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

History course on the third world or ancient history

History courses at or above the 300 level

History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)

History course

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

3
4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

3¹⁻⁴

3¹⁻⁴

124

DEGREE: BACHELOR OF ARTS

MAJOR: HISTORY EDUCATION

SUGGESTED CURRICULUM

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

CREDITS*

3¹

3¹⁻⁴

3¹⁻⁴

SUGGESTED CURRICULUM

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in a given language or satisfactory performance on a placement test in the language of the student's choice.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

or

One of the following:

M 221 Calculus I

M 241 Analytical Geometry and Calculus A

or

Successful performance on the college proficiency exam.

Breadth Requirement† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

A course on the third world or ancient history

History course

History courses at 300 level or above

History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department

Anthropology course

Economics course

Geography course

Political Science course

Sociology course

PSY 201 General Psychology

Six additional credits selected from the departments listed above.

Professional Studies

EDS 201 Education and Society

EDS 301 Psychological Foundations of Education

EDS 302 Educational Psychology

H 491 Planning a Course of Instruction

H 493 Seminar: Problems in Teaching History and Social Sciences

EDS 420 Reading in the Content Area

EDD 400 Student Teaching

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

0-12¹⁻⁴

3¹

3

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

3

24¹⁻⁴

3

3

3

3

3¹⁻⁴

3¹⁻⁴

6¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

1¹⁻⁴

9¹

124

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.
†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.
‡A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

Major Requirements: History Concentration: Policy History

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

History Course on the history of Asia, Africa, Latin America,
or the Ancient World

Seven courses in the field of emphasis. With written approval
of the advisor, a student may take two of these
courses outside the Department of History.

History seminar at the 400-level

Electives

After required courses are completed, sufficient elective
credits must be taken to meet the minimum credit requirement
for the degree.

SUGGESTED CURRICULUM

One of the following:

M 221 Calculus I

M 241 Analytical Geometry and Calculus A

or

Successful performance on the college proficiency exam.

Breadth Requirement (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

MAJOR REQUIREMENTS

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

History course on the third world or ancient history

History courses at or above the 300 level

History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)

History course

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

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3¹⁻⁴

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124

SUGGESTED CURRICULUM

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in a given language or satisfactory performance on a placement test in the language of the student's choice.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

or

One of the following:

M 221 Calculus I

M 241 Analytical Geometry and Calculus A

or

Successful performance on the college proficiency exam.

Breadth Requirement (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

Within the Department

H 101 Western Civilization to 1648

H 102 Western Civilization: 1648 to the Present

H 268 Seminar

A course on the third world or ancient history

History course

History courses at 300 level or above

History seminar at the 400 level or above (excluding H 491 and 493 and Independent Study)

Within the College

Twenty-four credits in the following social sciences with at least three credits in each department

Anthropology course

Economics course

Geography course

Political Science course

Sociology course

PSY 201 General Psychology

Six additional credits selected from the departments listed above.

Professional Studies

EDS 201 Education and Society

EDS 301 Psychological Foundations of Education

EDS 302 Educational Psychology

H 491 Planning a Course of Instruction

H 493 Seminar: Problems in Teaching History and Social Sciences

EDS 420 Reading in the Content Area

EDD 400 Student Teaching

CREDITS TO TOTAL A MINIMUM OF

CREDITS*

0-12¹⁻⁴

3¹

3

3

4

12¹⁻⁴

12¹⁻⁴

12¹⁻⁴

13¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

3¹⁻⁴

12¹⁻⁴

24¹⁻⁴

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124

DEGREE: BACHELOR OF ARTS

MAJOR: HISTORY EDUCATION

SUGGESTED CURRICULUM

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing

Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

CREDITS*

3¹

3¹⁻⁴

3¹⁻⁴

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹ freshman year, ² sophomore year, etc.

*This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

*A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

RATIONALE FOR REVISIONS IN UNDERGRADUATE REQUIREMENTS FOR THE DEPARTMENT OF ART HISTORY

The Department of Art History's Undergraduate Studies Committee has conducted a review of its undergraduate curriculum over the past two years. After its report was submitted to the departmental faculty, further discussion took place and refinements were made. The results are the revisions herewith submitted for consideration by the College of Arts and Science Educational Affairs Committee, the College Senate and the University Senate. Below is a summary of the changes and the reasons for them.

1) The total number of required major credits for the B.A. degree credits will be increased from thirty to thirty-three. The reason for this change is that the Department believes that it is essential that all undergraduate majors take both semesters of the survey of Western Art History, Introduction to Art History I (ARH 153) and II (ARH 154). Under present regulations, only one 100 level course counts for the major, discouraging students from taking the second semester of the survey. Normally other 100 level courses will not count for the major, unless by special petition approved by the faculty.

2) All art history majors must take ARH 153 and ARH 154. In special circumstances a student may petition for an exception. The reasons for requiring these two courses are that: 1) students enrolling in courses at the 200 level or higher are at a disadvantage if they have not had the general course for background; 2) the vocabulary and essay structure provided by the writing component of ARH 153 and 154 is essential for students to perform well on essay examinations and term papers in upper level courses. Students may petition for exception on the basis of high school or AP courses. We expect few exceptions to be made.

3) Students must take at least one course in each of five key areas of art history. These areas are Ancient, Medieval/Northern Renaissance, Renaissance, Baroque/Eighteenth-Century, and Modern. This important change gives students more flexibility in the upper level courses they select. Since all majors will now have taken the survey, they do not need to take the 200/300 level sequence in all areas. They may also take more 400 level courses than is presently possible. The Department believes that it is important to allow students to get greater depth in their chosen areas of art history, particularly if they plan on graduate study, as many of our students do.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ART HISTORY
 DEGREE: BACHELOR OF ARTS
 MAJOR: ART HISTORY (ARH)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or	X
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
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or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
--	---	--	--	--	--

or

One of the following:

M 221 Calculus I	3				
------------------	---	--	--	--	--

M 241 Analytic Geometry and Calculus A	4				
--	---	--	--	--	--

or

Successful performance on the college proficiency examination.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ART HISTORY
 DEGREE: BACHELOR OF ARTS
 MAJOR: ART HISTORY (ARH)

Page 2

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X

MAJOR REQUIREMENTS

ARH 153 Introduction to Art History I <u>Within the Department</u>	3	X	X	X	X
ARH 154 Introduction to Art History II	3	X	X	X	X
ARH 210 Art of the Middle Ages	3	X	X	X	X
ARH 315 Modern Art to Nineteenth Century	3	X	X	X	X
ARH 316 Modern Art II: Twentieth Century	3	X	X	X	X
ARH 401 Literature, Theory and Methods of Art History	3			X	
ARH 207 Origin of Art	3	X	X	X	X
or					
ARH 208 Greek and Roman Art	3				
ARH 211 Early Renaissance Art	3	X	X	X	X
or					
ARH 212 High Renaissance and Mannerist Art	3				
ARH 214 Baroque Art	3	X	X	X	X
or					
ARH 215 Art of the Eighteenth Century	3				
ARH xxx Art History courses. <u>Only one</u>	<u>12</u>	X	X	X	X
400 level course may be taken.					
ARH 4XX or					
ARH 4XX Art History Seminar course	3		X	X	X

Students must take at least one course in each of five key areas of art history. These areas are Ancient, Medieval/Northern Renaissance, Renaissance, Baroque/Eighteenth-Century, and Modern.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: ART HISTORY
 DEGREE: BACHELOR OF ARTS
 MAJOR: ART HISTORY (ARH)

Page

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Within the College

Fifteen credits of related work as follows:	15	X	X	X	X
Required:					
E 202 Biblical and Classical Literature	3	X	X	X	X
H xxx Any 200- or 300-level history course approved by the department adviser.	3	X	X	X	X

The remaining nine credits of related work may be chosen, with the adviser's approval, from appropriate courses in the following areas: American Studies, Anthropology, Studio Art, Education, English, History, Foreign Languages and Literatures, Music, Philosophy and Theatre. A second History course, a Studio Art course, and a foreign language course at or above the 200-level (i.e., a literature course) are recommended.

ELECTIVES

Electives

X X X X

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

124

#This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

2007 11 15 AM
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Memorandum

Attachment 24



January 16, 1990

TO: Educational Affairs Committee

FROM: Ronald D. Baker *R.D. Baker*
Coordinator for Undergraduate Studies
Mathematical Sciences

RE: Curricular changes for undergraduate degrees (MTH, MTS, SBS, XMS)

The department of Mathematical Sciences has had a policy on a "second computing experience" for our majors for a couple of years now (the "first" experience would be our PC lab work in M242). In recognition of the difficulty of managing this policy (sometimes a special section of M302 had a PC lab; other times M349 had such a lab), we now propose to create M303 Differential Equations Computing Lab as a regular 1 credit course to be offered in conjunction with a section of M302. This course will be required of all majors in the department. Allowing students from other majors to enroll in M303 on a space available basis we should be able to run this course both semesters to accommodate all of our own majors. The department approved this proposal at its meeting of November 14, 1989.

In March of 1989 the department forwarded two new (one credit) course proposals, M379 Problem Solving Strategies and M381 Practicum in Secondary Mathematics, which are a tested component of the BA in Mathematics Education degree. M379 had run under the M367 number for 2 years, while the Practicum was an experience administered by the Math Teaching & Learning Center on an informal basis for several years (policy required a "tutoring" experience prior to admission to M380 Approaches to Teaching Mathematics). These two new courses should be required in the XMS program.

Last year a change to the language requirement of all our BS programs was approved, but not reflected in the catalog. This, and other typographical errors (incorrect course numbers, inclusion of courses no longer offered, etc.) are noted on the attached xerox copies of the catalog listings of requirements. These minor corrections should be self-explanatory.

**DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICAL SCIENCES**

SUGGESTED CURRICULUM

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

SUGGESTED CURRICULUM

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in a given language or satisfactory performance on a placement test in the language of the student's choice.

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

or
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

or
One of the following:

M 221 Calculus I
M 241 Analytical Geometry and Calculus A

or
Successful performance on the college proficiency exam.

Breadth Requirements† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

Group B. The study of culture and institutions over time. Twelve credits representing at least two areas.

Group C. Empirically based study of human beings and their environment. Twelve credits representing at least two areas.

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory.

M303 Differential Equations Computing Lab 1²

MAJOR REQUIREMENTS

Within the Department

M 210 Discrete Mathematics I
** M 242 Analytic Geometry and Calculus B
M 243 Analytic Geometry and Calculus C
M 349 Elements of Linear Systems
M 302 Ordinary Differential Equations
M 503 Advanced Calculus for Applications

or
M 508 Introduction to Complex Variables and Applications

M 389 Graph Theory

or
M 529 Linear Programming: Methods and Applications

ST 370 Introduction to Statistical Analysis I

ST 371 Introduction to Statistical Analysis II
Twelve credits of Mathematics and/or Statistics at the 300 level or above. M 601 and 602 are not applicable.

Within the College

CIS 105 General Computer Science

or

CIS 106 General Computer Science for Engineers

or

CIS 180 Introduction to Computer Science I

E 312 Written Communications in Business

**or
Suitable equivalent**

Within the University

Area of application outside the department must be approved by the department Undergraduate Studies Committee. Student should check with adviser.

SUGGESTED CURRICULUM

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, at least 79 outside Mathematical Sciences.

CREDITS TO TOTAL A MINIMUM OF

124

**** Students lacking adequate preparation for M242 should begin with M241**

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

‡A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

DEGREE: BACHELOR OF SCIENCE
MAJOR: MATHEMATICAL SCIENCES
CONCENTRATION: MATHEMATICS OF COMPUTATION

SUGGESTED CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing
 Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*

MAJOR REQUIREMENTS:

Within the Department

M 210 Discrete Mathematics I
 M 315 Discrete Mathematics II
 **M 242 Analytic Geometry and Calculus B
 M 243 Analytic Geometry and Calculus C
 M 349 Elements of Linear Systems
 M 302 Ordinary Differential Equations
 M 260 Concepts of Analysis
 M 426 Introduction to Numerical Analysis and Algorithmic Computation
 M 503 Advanced Calculus for Applications
 or
 M 601 Advanced Calculus—Introduction to Analysis I and
 M 602 Advanced Calculus—Introduction to Analysis II
 M 508 Introduction to Complex Variables and Application
 M 450 Abstract Algebra
 M 389 Graph Theory
 M 529 Linear Programming: Methods and Applications
 ST 370 Introduction to Statistical Analysis I
 ST 371 Introduction to Statistical Analysis II

Within the College

Related Work

CIS 180 Introduction to Computer Science I and
 CIS 181 Introduction to Computer Science II
 CIS 411 Algorithmic and Numerical Solution of Differential Equations
 CIS 627 Simulation of Discrete Systems
 CIS 220 Data Structures
 E 312 Written Communications in Business
 Two-semester sequence of laboratory science

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

M303 Differential Equations Computing Lab 1²

SUGGESTED CURRICULUM

CREDITS*

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in ~~either French, Russian or German~~ or satisfactory performance on a placement test. *French, German or Russian are recommended.*
Breadth Requirements: (See page 45)

A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area.

Group A. Understanding and appreciation of the creative arts and humanities.

Group B. The study of culture and institutions over time.

Group C. Empirically based study of human beings and their environment.

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

128

242

241

**Students lacking adequate preparation for M 242 should begin with M 241.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.
 A grade of C or better is required for major courses and related work.

DEGREE: BACHELOR OF SCIENCE
MAJOR: MATHEMATICAL SCIENCES
CONCENTRATION: MATHEMATICS OF MANAGEMENT
SCIENCES AND OPERATION RESEARCH

SUGGESTED CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing
 Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.†

MAJOR REQUIREMENTS‡

Within the Department

M 210 Discrete Mathematics I 3¹
 **M 242 Analytic Geometry and Calculus B 3¹⁻⁴
 M 243 Analytic Geometry and Calculus C 4²
 M 349 Elements of Linear Systems 4²
 M 302 Ordinary Differential Equations 3²
 M 260 Concepts of Analysis 3²
 M 426 Introduction to Numerical Analysis and Algorithmic Computation 3^{3,4}
 M 601 Advanced Calculus—Introduction to Analysis I 3^{3,4}
 M 602 Advanced Calculus—Introduction to Analysis II 3^{3,4}
 M 508 Introduction to Complex Variables and Application 3^{3,4}
 M 450 Abstract Algebra 3-4^{3,4}
 M 672 Vector Spaces 3^{3,4}
 M 389 Graph Theory 3^{3,4}
 M 529 Linear Programming: Methods and Applications 3^{3,4}
 ST 370 Introduction to Statistical Analysis I 3³
 ST 371 Introduction to Statistical Analysis II 3³

Nine credits from the following:

~~M 427 Approximation Theory~~ 9^{3,4}
 M 428 Algorithmic and Numerical Solution to Differential Equations 3³
 M 691 Nonlinear Programming 3³
 M 692 Dynamic Programming 3³
 M 693 Integer Programming and Network Flows 3³
 M 630 Introduction to Probability Theory 3³
 M 631 Introduction to Stochastic Processes 3³

M 303 Differential Equations Computing Lab 1

SUGGESTED CURRICULUM

CREDITS*

M 632 Topics in Applied Probability 3
 M 518 Mathematical Models and Applications 3
 M 689 Combinatorics 3
~~ST 628 Mathematical Methods of Operations Research~~ 3

Within the College

Related Work

PS 207 General Physics 4^{1,2}
 PS 208 General Physics 4^{1,2}
 CIS 105 General Computer Science 3^{1,2}
 or
 CIS 106 General Computer Science for Engineers 3
 or
 CIS 180 Introduction to Computer Science I 3^{3,4}
 E 312 Written Communications in Business 3^{3,4}

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet. 3^{3,4}

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in either French, Russian or German or satisfactory performance on a placement test. 0-12¹⁻⁴

Breadth Requirements† (See page 45) French, German or Russian 16 Required

A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area.

Group A. Understanding and appreciation of the creative arts and humanities.

Group B. The study of culture and institutions over time.

Group C. Empirically based study of human beings and their environment.

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

128

**Students lacking adequate preparation for M 242 should begin with M 241.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

‡A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

†A grade of C or better is required for major courses and related work.

M 303 Differential Equations Computing Lab I² →

SUGGESTED CURRICULUM		CREDITS*
M 302	Ordinary Differential Equations	3 ¹
M 260	Concepts of Analysis	3 ¹
M 426	Introduction to Numerical Analysis and Algorithmic Computation	3 ^{1,4}
M 601	Advanced Calculus—Introduction to Analysis I	3 ^{1,4}
M 602	Advanced Calculus—Introduction to Analysis II	3 ^{1,4}
M 508	Introduction to Complex Variables and Application	3 ^{1,4}
M 450	Abstract Algebra	3-4 ^{1,4}
M 672	Vector Spaces	3 ^{1,4}
M 609	Intermediate Ordinary Differential Equations and	3 ^{1,4}
M 610	Introduction to Partial Differential Equations with Applications	3 ^{1,4}
M 616	Introduction to Applied Mathematics I and	3
M 617	Introduction to Applied Mathematics II	3 ^{1,4}
ST 370	Introduction to Statistical Analysis I	3 ¹
ST 371	Introduction to Statistical Analysis II	3 ¹
<i>Related Work</i>		
PS 207	General Physics	4 ^{1,2}
PS 208	General Physics	4 ^{1,2}
PS 209	General Physics	4 ^{1,2}
PS 419	Analytical Mechanics	3 ^{1,4}
PS 427	Analytical Mechanics	3 ^{1,4}
CIS 105	General Computer Science	3 ^{1,2}
or		
CIS 160	General Computer Science for Engineers	3
or		
CIS 180	Introduction to Computer Science I	3 ^{1,4}
E 312	Written Communications in Business	3 ^{1,4}

620

106

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet. 3^{1,4}

Foreign Language: Completion of the intermediate-level course (107, 112 or 118) in either French, Russian or German or satisfactory performance on a placement test. 0-12¹⁻⁴

Breadth Requirements† (See page 45) French, German or Russian 16
21¹⁻⁴

A total of twenty-one credits from Groups A, B and C is required with a minimum of six credits in each group. The six credits from each group could be from the same area.

Group A. Understanding and appreciation of the creative arts and humanities.

Group B. The study of culture and institutions over time.

Group C. Empirically based study of human beings and their environment.

DEGREE: BACHELOR OF SCIENCE MAJOR: MATHEMATICAL SCIENCES CONCENTRATION: PHYSICAL MATHEMATICS

SUGGESTED CURRICULUM	CREDITS*
UNIVERSITY REQUIREMENTS	
E 110 Critical Reading and Writing	3 ¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content.*	3 ¹⁻⁴
MAJOR REQUIREMENTS†	
<i>Within the Department</i>	
M 210 Discrete Mathematics I	3 ¹
**M 242 Analytic Geometry and Calculus B	4 ¹
M 243 Analytic Geometry and Calculus C	4 ¹
M 349 Elements of Linear Systems	3 ¹

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 128

*Students lacking adequate preparation for M 242 should begin with M 241.

**Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

††This course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation. Grade of C or better is required for major courses and related work.

DEGREE: BACHELOR OF ARTS
MAJOR: MATHEMATICS EDUCATION

SUGGESTED CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing 3¹
 Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. 3¹⁻⁴

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet. 3^{3,4}

Foreign Language: Completion of the intermediate-level course in a given language or satisfactory performance on a placement test in the language of the student's choice. 0-12¹⁻⁴

Breadth Requirements† (See page 45)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas. 12¹⁻⁴

Group B. The study of culture and institutions over time. Nine credits representing at least two areas. 9¹⁻⁴

Group C. Empirically based study of human beings and their environment. Nine credits representing at least two areas. 9¹⁻⁴

Group D. The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas including a minimum of one course with an associated laboratory. 13¹⁻⁴

MAJOR REQUIREMENTS

Within the Department

M 210 Discrete Mathematics I 3¹
 **M 242 Analytic Geometry and Calculus B 4²
 M 243 Analytic Geometry and Calculus C 4^{2,3}
 M 260 Concepts of Analysis 3²
 M 302 Ordinary Differential Equations 3²
 M 349 Elements of Linear Systems 3²
 M 518 Mathematical Models and Applications 3^{3,4}
 M 540 Fundamentals of Geometry 3³
 M 450 Abstract Algebra 3-4³
 ST 370 Introduction to Statistical Analysis I 3³
 ST 371 Introduction to Statistical Analysis II 3³

M303 Differential Equations Computing Lab 1²

SUGGESTED CURRICULUM

CREDITS*

In addition, students seeking certification to teach calculus must complete:

M 503 Advanced Calculus for Applications 3¹⁻⁴
 M 508 Introduction to Complex Variables and Application 3¹⁻⁴

Within the College

CIS 105 General Computer Science 3^{1,2}

or
 CIS 106 General Computer Science for Engineering 3

or
 CIS 180 Introduction to Computer Science 3^{1,2}

PS 207 General Physics 4^{1,2}
 E 312 Written Communication in Business 3^{3,4}

Professional Studies

EDS 201 Education and Society 3¹⁻⁴

EDS 301 Psychological Foundations of Education 3¹⁻⁴

EDS 302 Educational Psychology 3¹⁻⁴

M 380 Approaches to Teaching Mathematics 3¹

EDS 420 Reading in the Content Areas 1¹⁻⁴

EDD 400 Student Teaching 9¹

ELECTIVES

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, 79 outside of Mathematical Sciences.

CREDITS TO TOTAL A MINIMUM OF

124

M379 Problem Solving Strategies 1^{2,3}

M381 Practicum in Secondary Math 1^{2,3}

**Students lacking adequate preparation for M 242 should begin with M 241.

*Superior figures indicate year or years in which the course is normally taken, i.e., ¹freshman year, ²sophomore year, etc.

†This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 20.

‡A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

§A grade of C or better is required for major courses and related work.

DEPARTMENT OF ECONOMICS
DEPARTMENT OF ECONOMICS
NEWARK, DE 19716

MEMORANDUM

DATE: 12 April 1989

TO: Willard Baxter, Chairperson
Undergraduate Studies Committee
Department of Mathematical Sciences

FROM: Lawrence P. Donnelley, Chairman
Department of Economics *L.P.D.*

SUBJECT: Proposed Revision of B.A. Program in Mathematical Sciences

This is to confirm the results of our telephone conversation on 12 April 1989.

I understand that your department has proposed revising the B.A. program in Mathematical Science. One option would be for students to take 15 credits of related work in economics. These credits would include EC 422(3) and either EC 423(3) or EC 426(3). The remaining 9 credits would be economics electives.

This program has my complete support. The Department of Economics would welcome more of your students in our courses. Except in very rare instances (which have never involved EC 422, 423, or 426), the Department has not limited course enrollments to majors. We only require that enrolling students meet the appropriate course prerequisites.

You may want to consider a recently approved course, EC 451 Quantitative Microeconomic Theory, as part of the economics related work requirement.

nvl

cc: R. Agnello
K. Lewis

In the past two years several program changes were presented to the faculty by the Undergraduate Committee, approved by the faculty but never sent through official channels for college and university approval. The attached program requirement sheets are an attempt to update and correct these omissions.

BA AND BS - requirements for all departmental degrees:

The faculty of the department approved the requirement that M210 be required for all department degree programs. The course should be completed by the end of the first year.

The department also voted to include the footnote "Students whose background permits will take M242-243; other students will take M241-243." The listing of M241 as a requirement in the program therefore is deleted.

BA Degrees

In order to provide for a more rounded education the statement "including at least 79 hours outside of mathematics" has been included for all Bachelor of Arts degrees.

BA - Mathematical Sciences: Of these 79 hours within the University the Area of Application has been defined specifically as - 15 credit hours, at least 6 at the 300 level or above, from one of these departments:...(includes footnotes with more specific requirements for Business Administration and Economics so that we are assured that a basic knowledge of the area is acquired).

BA - Mathematics Education: The change in the CIS requirement reflects the change in course content of the various courses offered.

Experimental course EDD 3xx has been transferred and permanently numbered as EDS420 - Reading in Content Area.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: MATHEMATICAL SCIENCES
 DEGREE: BACHELOR OF ARTS
 MAJOR: MATHEMATICAL SCIENCES (MTA)

Page 1

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
xx xxx #Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender related content.	3	X	X	X	X

BA - COLLEGE REQUIREMENTS

Skill Requirements

<u>Writing:</u> A writing course involving significant writing experience including two papers with a combined minimum of 3000 words which are to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3			X or	X
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<u>Foreign Language:</u> Completion of the intermediate-level course in a given language (112, 107 or 118) or satisfactory performance on a placement test in the language of the student's choice.	0-12	X	X	X	X
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Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3	X			
or					
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3				
or					
One of the following:					
M 221 Calculus I	3				
M 241 Analytic Geometry and Calculus A	4				
or					

Successful performance on the college proficiency examination.

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: MATHEMATICAL SCIENCES
 DEGREE: BACHELOR OF ARTS
 MAJOR: MATHEMATICAL SCIENCES (MTA)

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Breadth Requirements*

<u>Group A.</u> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group B.</u> The study of culture and institutions over time. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group C.</u> Empirically based study of human beings and their environment. Twelve credits representing at least two departments.	12	X	X	X	X
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<u>Group D.</u> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two departments including a minimum of one course with an associated laboratory.	13	X	X	X	X
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MAJOR REQUIREMENTS

	<u>Within the Department</u>				
<i>M 210 DISCRETE MATH I</i>	<i>3</i>	<i>X</i>			
M 241 Analytic Geometry and Calculus A	4	X			
M 242 Analytic Geometry and Calculus B *	4	X			
M 243 Analytic Geometry and Calculus C	4		X		
M 302 Ordinary Differential Equations	3		X		
M 349 Elements of Linear Systems	3		X		
M 503 Advanced Calculus for Applications or	3			X	X
M 508 Introduction to Complex Variables and Applications	3				
M 389 Discrete Mathematics or	3			X	X
M 529 Linear Programming: Methods and Applications	3				
ST 370 Introduction to Statistical Analysis I	3			X	
ST 371 Introduction to Statistical Analysis II	3			X	

* Students lacking the adequate preparation for M242 should begin with M241

COLLEGE: ARTS AND SCIENCE
 DEPARTMENT: MATHEMATICAL SCIENCES
 DEGREE: BACHELOR OF ARTS
 MAJOR: MATHEMATICAL SCIENCES (MTA)

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<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
M 3xx Twelve credits of Mathematics and/or Statistics at the 300-level or above. ST 3xx (M 601 and 602 are not applicable.)	12			X	X

Within the College

CIS 105 General Computer Science or CIS 106 General Computer Science for Engineers or CIS 180 Introduction to Computer Science I	3 3 3	X	X		
E 312 Written Communications in Business or xx xxx Suitable equivalent	3			X	X

Within the University

xx xxx Area of Application:	15	X	X	X	X
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15 credit hours, at least 6 at the 300 level or above, from one of these departments: Business Administration**, Computer Science, Chemical Engineering, Civil Engineering, Economics***, Electrical Engineering, Mechanical Engineering or Physics OR another area of application given a priori departmental approval.

Electives

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF

including at least 79 hours outside mathematical sciences
 #This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

*A course may be applied both towards the major requirement and a breadth requirement, but credits are counted only once towards the total credits for graduation.

** Business Administration must include BU 260 and 306 and any three of BU 302, 346, 407, 446, or 447. (In addition, BU 311 must be included if 407 is chosen)

*** Economics must include EC 422, either EC 423 Or 426, and three courses (9 credit hours)

PROPOSAL FOR A JEWISH STUDIES MINOR CONCENTRATION

I **Statement of Purpose:** Jewish Studies--the study of the texts, histories, and cultures of the Jewish people--developed alongside and within Western (and non-Western) civilization. Uniquely Jewish intellectual, philosophical, literary, theological and social traditions developed from the Biblical period onward--distinct from but in steady interaction with the traditions of countries in which Jewish life flourished. During the last 3,000 years, Jewish communities existed throughout the world, contributing to and absorbing from the cultures they touched. As an academic discipline, Jewish studies concentrates on its own inner continuities, as well as the ways it has affected--and been affected by--its host cultures. To study Jewish thought and history is to better understand the underpinnings of both Jewish and Western cultures, as well as the mutual influences which helped shape each. Not a single discipline, Jewish Studies draws upon many methodologies and disciplines. A Jewish Studies Program at the University of Delaware will deepen the understanding of Western civilization, and contribute significantly to all the programs whose methodologies it uses.

In addition, a Jewish Studies Program will further the university's goal of a multi-cultural education. The geographic and intellectual history of Jews in the world addresses the way the outsider coexists (and often struggles) with the insider, to maintain both physical and cultural survival. Although representing a small minority within its host cultures, Jewish intellectual development has had a profound and immeasurable impact on the evolution of Western philosophy, literature, and political and social thought. The influence of contemporary American Jewish writers on the shape of modern writing is a notable example. In addition, the vantage point of Jewish Studies offers a means to grapple with the implications for Western civilization of the Holocaust and its aftermath.

As evidenced by the growing number of academic journals focusing on Jewish Studies, the plethora of articles on Jewish Studies in other disciplinary journals, and the mounting numbers of books and series on Jewish Studies published by academic presses, Jewish Studies is a vibrant and significant academic discipline. The Jewish Studies Program at Delaware would join the hundreds of such programs presently in place at American universities today.

II **Description:** Jewish Studies is, by nature, a interdisciplinary, multi-cultural concentration, drawing on many disciplines and methodologies. At minimum, the Jewish Studies Program must offer courses in the following areas:

1. Jewish texts (Bible, Talmud, Midrash, later rabbinic texts)
2. Jewish history (ancient and modern)
3. Jewish philosophical thought (ancient and modern, including mysticism))
4. The American Jewish experience
5. Jewish literature

6. The Holocaust
7. Israel
8. Non-Western Jewish civilization

While some of these areas may be covered in other courses--for example, a World Civilizations class may cover events which strongly affected Jewish life, a Comparative Literature class may read Jewish writers, a Classics class may look at the Old Testament--the Jewish Studies perspective would treat these subjects differently. A Jewish Studies class would consider, for example, the impact of certain historical events on Jewish continuity and development (e.g. the Crusades, the Spanish Inquisition, the Enlightenment). It might examine Jewish writers in terms of their Jewish sources, their status as outsiders, their exploration of Jewish experience. It would consider Biblical narrative and exegesis in terms of Jewish, rather than Christian, hermeneutics; its frame of reference would be the Hebrew Bible, and not the Old Testament.

- III **Timetable:** We propose to have the Jewish Studies minor concentration take effect in Fall 1990. It is hoped that the success of the Minor will warrant the institution of a Jewish Studies major at some future date.
- IV **Housing:** The Jewish Studies minor will be housed temporarily in the Philosophy Department. Professor Sara R. Horowitz (University Honors Program/English) has agreed to oversee the planning and implementation of the Jewish Studies minor.
- V **Requirements for Minor Concentration:** minimum of 15 credits, drawn from the following:

Required:

1. One course in ancient Jewish texts (The Hebrew Bible, Talmud, Midrash)
2. One course in later rabbinic texts, Jewish thought or theology

Elective:

3. Courses in Jewish culture (literature, art, film, folklore)
4. Courses on contemporary issues of the Jewish community (Israel, the Holocaust and its aftermath, etc.)
5. Courses in Jewish history and social sciences

VI **Current Faculty/Course Resources:**

As of Spring 1990 (90B), the following courses will have been offered at the University of Delaware, taught by present faculty. They either meet, or may be adapted to meet, a Jewish Studies focus:

Rabbinic texts, Jewish thought or theology:

- PHIL 367: Introduction to Jewish Philosophy (R. Weiss)
- PHIL 204: World Religions
- PHIL 202: Contemporary Moral Problems

Jewish culture

- ENG 267: Fiction of the Holocaust (S. Horowitz)
ENG 480: Jewish Literature: The Books of the People
of the Books (S. Horowitz)
ENG 480: Senior Seminar in Literature of the
Holocaust.

Contemporary issues of the Jewish community

- HIST 464: The Holocaust (W. Fletcher--currently
retired, but has expressed interest in
continuing to offer the course)
ENG 318: Film of the Holocaust (S. Horowitz)
PSC 377: Arab-Israel Politics (Miller)

In addition, the following new courses can be developed by faculty
currently at the university:

Ancient Jewish texts:

The English and Philosophy Departments have indicated a
willingness to develop and offer a course in the Hebrew
Bible and the tradition of Jewish hermeneutics (as
distinct from ENG 202: Biblical and Classical
Literature) to be taught by Sara Horowitz and Roslyn
Weiss.

Jewish culture:

The English Department has indicated its willingness to
offer additional courses in Jewish literature if the
Jewish Studies minor is adopted [including a course in
Social Protest in the Jewish-American Novel (Elaine
Safer)].

Jewish history and social sciences:

The Political Science, History, and Sociology Departments
have indicated willingness to develop and offer a
tri-module, three credit introductory course to the
Social Sciences approach to Jewish Studies.

The Sociology Department has expressed the department's
willingness to accept course proposals related to Jewish
Studies, to be taught by Vivian Klaff.

Courses with a X67 number can count towards the Jewish Studies
minor with the approval of the program director. The registration
booklet will indicate which sections meet the program requirement.
Special problems courses may also count towards the Jewish Studies
minor with the approval of the program director.

Courses on the archaeology of the Middle East; Hebrew, Yiddish, and
other ancient and modern Jewish languages; Middle East history and
politics would be integrated into the Jewish Studies curriculum if
offered at the University.

VII Advisement: The program co-ordinator/director will advise students who elect the minor concentration in Jewish Studies.

VIII Personnel Requirements: At the outset, the Jewish Studies Program will require the following additional faculty:

Program Co-ordinator/Director: Once in place, the program will require a Jewish Studies faculty whose function includes a) co-ordinating the faculty resources and course offerings within the university; b) advising students; c) publicizing the program on campus; d) developing on-campus activities which enhance the program, such as colloquia, lectures, film series, and cultural events; e) maintaining liaison with other Jewish Studies programs; f) preparing a budget. The Co-ordinator/Director will require course-release time.

IX Constituency: The Jewish Studies Program is intended neither as a program of advocacy for a particular set of beliefs, nor for only those students who identify with a particular faith. Judging by the present enrollments in courses currently in place--such as Films of the Holocaust (E318), Fiction of the Holocaust (E367), Jewish Thought--Jewish Studies courses have wide student appeal.

In addition to minors, the Program would serve the needs of other students interested in pursuing particular subjects within the larger scope of Jewish Studies, and connected to their academic interests at the university.

X Relationship to existing programs: The proposed Jewish Studies minor seeks to ground students in the many interconnected facets of Jewish civilization, culture and thought, including history, literature, philosophy, sociology, religion, politics, and language. While the study of Judaism as a religion is part of Jewish Studies, it represents only one aspect of it. This broad-based, interdisciplinary orientation requires an independent Jewish Studies minor--one not linked to the Religions Studies minor currently under consideration.

XI Plan for 1989-90: During the forthcoming academic year, we propose to co-ordinate the faculty resources and course offerings within the university, determine additional resources required, search for faculty, and publicize the program on campus.

The Jewish Studies Advisory Committee:
Co-ordinator: Professor Sara R. Horowitz
(UHP/English); Professors Frank Dilley
(Philosophy), Jack Ellis (History), Vivian
Klauff (Sociology), Marian Palley (Political
Science), Barry Seidel (Mechanical
Engineering), Richard Venezky (Educational
Studies), Roslyn Weiss (Philosophy)



University of Delaware

COLLEGE OF ARTS & SCIENCE
DEPARTMENT OF ENGLISH
204 MEMORIAL HALL
NEWARK, DELAWARE 19716

(302) 451-2361

November 10, 1989

Professor Sara Horowitz
University Honors Program
University of Delaware
Newark, DE 19716

Dear Sara:

The English Department supports the creation of a Jewish Studies Minor, which will offer an interdisciplinary range of courses concentrating on Jewish intellectual, philosophical, literary, theological and social texts and traditions.

The English Department currently offers several courses which will count towards the requirements of the Jewish Studies Minor. These include: Fiction of the Holocaust (ENG 267), Jewish Literature: The books of the People of the Books (ENG 480); Senior Seminar in Literature of the Holocaust (ENG 480); and Film of the Holocaust (ENG 318).

In addition to these existing courses, we support the development of new courses in Jewish literature. For example, faculty members have indicated their willingness to teach courses on: Professor Sara Horowitz, the Hebrew Bible (in translation) and the tradition of Jewish hermeneutics (distinct from ENG 202: Biblical and Classical Literature); Professor Elaine Safer, Social Protest in the Jewish-American Novel; Israeli Literature (in translation).

We look forward to participating in the Jewish Studies Minor, and we are confident about its success.

Sincerely,

A handwritten signature in cursive script that reads "Carl Dawson".

Carl Dawson
Chair and Professor of English



University of Delaware

COLLEGE OF ARTS & SCIENCE
DEPARTMENT OF PHILOSOPHY
NEWARK, DELAWARE 19716

(302) 451-2359

September 25, 1989

TO: Sara Horowitz, University Honors Program

FROM: Frank B. Dilley, Chair
Department of Philosophy

Frank B. Dilley

SUBJECT: Jewish Studies Minor

The Philosophy Department supports fully the creation of a Jewish Studies Minor. It is a natural area for the development of a minor since there are a number of scholars, in this department and elsewhere in the University, whose contributions can be organized in a mutually enhancing way, reason enough for the creation of a program.

Secondly, students have been asking for Jewish Studies courses, and with somewhere around 10% of our students coming from Jewish families, we have an obligation to provide a reasonable program of courses. Admissions people tell us that a program would be helpful in the recruiting of some very good students.

Our support is given only on the condition that the approach will be rigorously academic, as we are assured it will be. We have programmed into our future development the continuation of a position for someone who has competence in Jewish Studies and can continue our current Introduction to Jewish Philosophy course, plus add additional strength in the form of Biblical and Talmudic Studies and/or Contemporary Moral Problems using Jewish materials. We have had such a position for three years on soft money but it will go on the regular budget next year.

The Philosophy Department has offered to provide secretarial support for the Jewish Studies program and has offered to coordinate advisement for the minor when it is developed.

cc: Roslyn Weiss

Elaine B. Safer

Department of English

November 6, 1989

Proposal for Jewish Studies Program

Jewish American Novels of Protest

The course would cover Jewish novels of protest, that is protest involving the conflict between traditional Jewish values and the American secular/Christian environment. Possible works are:

Saul Bellow, The Victim; Joseph Heller, God Knows; Bernard Malamud, The Assistant, God's Grace; Cynthia Ozick, The Cannibal Galaxy; Chaim Potok, The Chosen, My Name is Asher Lev; Henry Roth, Call It Sleep; Philip Roth, Portnoy's Complaint. I also would have students read essays from Studies in American Jewish Literature, ed. Daniel Walden; and chapters from World of Our Fathers by Irving Howe; Encyclopedia Judaica Yearbook; Chattel or Person? The Status of Women in the Mishnah by Judith Romney Wegner (Oxford UP, 1988); and other books on reserve.

INTRODUCTION TO JEWISH SOURCES:

TEXT AND INTERPRETATION

This course examines the central texts which form the basis of Jewish Studies and Jewish culture--the Hebrew Bible (in translation) and the early interpretive texts which have evolved as commentary to the Bible (the Talmud and the Midrash).

The Talmud occupied a central role in Jewish learning and Jewish life for centuries. Edited over a period of several centuries, it rests as the foundation for Jewish law and social structure. Essentially a commentary on the Bible, it contains the debates, collected wisdom, and teachings of the greatest scholars of the times. The Midrash, a loose collection of interpretive commentaries on Biblical narrative, contains fundamental non-legal texts in the form of imaginative literature.

In addition, we plan to examine later approaches within Jewish thought to these central texts. The course will be the basic introductory course of the proposed Jewish Studies Minor Concentration, which is slated to begin September 1990.

The course will focus on the following:

- narrative and law in the Hebrew Bible (in translation)
- the history of Biblical hermeneutics [i.e. scriptural interpretation through the study of central Jewish texts (Midrash and Talmud)]
- the development of later approaches to basic Jewish texts, ranging from traditional to rationalistic to mystical
- the development of Jewish theological perspectives and culture
- the role of these texts in the shaping of the Western mind.

The course draws on the complementary disciplines and expertise of two professors: Sara R. Horowitz, in literary studies, will approach the texts from the perspective of literary narrative and contemporary theory (where Jewish sources have recently gained a central importance); Roslyn Weiss, in philosophy, will approach the texts from the perspective of philosophical concerns regarding theology, ethics, and Judaism as system of life.

This course in basic Jewish sources will further the university's goal of a multicultural education. Although Jewish thought is considered the "Third Pillar of Western Civilization" (in addition to Christianity and the Classics), students at the University of Delaware do not presently have the opportunity to study ancient Jewish texts. By making these texts available in the context of the academic classroom, we intend to enhance student understanding of their own culture as stemming from a diversity of cultural roots.

**Department of Linguistics
University of Delaware**

46 East Delaware Avenue
Newark, DE 19716
(302) 451-6806

February 13, 1990

TO: Professor Sara Horowitz

FROM: Peter Cole, Chair *PC*

RE: Jewish Studies Minor

I understand that the proposed Jewish Studies Minor will be coming up for approval soon. On behalf of the Department of Linguistics I would like to express my strong support for the minor, and for the development of Jewish Studies in general. I was on the executive committee of the Jewish Studies Program at Illinois prior to coming to Delaware, and I can testify to the contribution the program brought to the intellectual community there

In addition to our general support for the concept of Jewish Studies at UD, the Linguistics Department has special interest in the teaching of the Hebrew language. Although Hebrew has not been offered here for the last several years, we would like to offer the language again, possibly in Fall 1990. We will be pleased to provide this essential linguistic support for Jewish Studies. Should you wish, the Hebrew courses could be cross-listed with Jewish Studies.

Please feel free to convey my support to the committees considering the minor. I would be happy to discuss the program directly with the committees should that prove desirable.

Memorandum



January 3, 1990

MEMORANDUM

TO: Sara R. Horowitz
University Honors Program

FROM: Jack D. Ellis, Chair
Department of History

RE: Proposed Minor in Jewish Studies

I wish to express my endorsement of the proposed minor in Jewish Studies. The Department of History has a particular interest in the success of this program, which provides a coherent framework for broadening student understanding of Jewish history and culture and the impact of Jewish life on society as a whole. Although the focus of the minor will encompass science, philosophy, literature, and the arts, as well as religion, the importance of the latter in the planned course offerings will serve to complement our new minor in Religious Studies. This, I might add, parallels a broader resurgence of interest in the study of religion as an academic discipline. At present, a total of 150 American Universities have courses, programs, and minors in Jewish Studies; a total of 63 of these offer a major in the field. Those of us who helped prepare the proposed minor were agreed that it should follow the example of the most successful of these in adopting rigorous standards of scholarly objectivity (centering, for example, on Jewish history and culture, Jewish philosophy, and Biblical and literary analysis) and in eschewing any form of theological advocacy. In my judgment, the proposed minor more than meets these criteria.

Our Department is eager to assist the program in every way possible, even though at present we have no specialist in the field. Professor Willard Fletcher, our specialist in German history, who has long taught H264, a lecture course on the Holocaust, will continue to offer this course in Winter Session. Other faculty will also be available to help. In a meeting this past October, we came to an initial agreement concerning areas in which individual faculty would be able to make a contribution to a general lecture series. Topics on which our faculty have expressed a willingness to speak include Jewish philosophical thought (Professor John Bernstein); Jews in nineteenth-century Germany (Professor John Beer); medieval antisemitism and

Jerusalem during the Middle Ages (Professor Daniel Callahan); Jews in the Renaissance and Reformation (Professor Lawrence G. Duggan); and the Jews in antiquity (Professor Steven Sidebotham). Others will undoubtedly be eager to contribute in any way possible.

I should note that the program addresses the needs not only of a growing number of Jewish students at the University of Delaware, but of all our students as well. The proposal is a well-conceived one, and I urge its approval.

JDE:dr

cc: J. Beer
J. Bernstein
D. Callahan
S. Sidebotham



University of Delaware

COLLEGE OF ARTS & SCIENCE
DEPARTMENT OF ENGLISH
204 MEMORIAL HALL
NEWARK, DELAWARE 19716

(302) 451-2361

TO: Harrison Hall, Philosophy

FROM: Sara R. Horowitz, UHP; Coordinator, Jewish Studies Minor *SRH*

DATE: April 14, 1990

RE: Proposal for a Minor Concentration in Jewish Studies

Attached is the revised proposal for a Jewish Studies Minor Concentration. After speaking with you and with Leslie Goldstein about the concerns of the committee, I have rewritten sections of the proposal so that it reflects current status of courses to be offered. I have also addressed the questions raised about potential costs to the University.

The areas of study itemized in Section II indicate the scope of the field of Jewish Studies. It represents what we aspire to build towards rather than our minimal requirements to offer the minor. I have changed the wording to reflect this more clearly.

Section VI lists courses currently offered which will be counted towards the Minor, as well as new courses which to be taught during the coming two academic years. These courses will be part of the relevant faculty member's regular teaching load; approval of respective department chairs has been obtained. Most importantly, this section shows that, using current resources, we can offer courses to fulfill the five areas of focus listed in Section V.

Section VIII has been altered so that it clearly indicates that the function of director of the Jewish Studies Minor will be fulfilled by a current faculty member, and does not require a new hiring. As mentioned in that section, release time and/or administrative supplement has been approved by the Dean.

If you require any further information about the Minor, please do not hesitate to call me. I hope the revisions to the proposal answer the concerns you raised.

PROPOSAL FOR A JEWISH STUDIES MINOR CONCENTRATION

- I **Statement of Purpose:** Jewish Studies--the study of the texts, histories, and cultures of the Jewish people--developed alongside and within Western (and non-Western) civilization. Uniquely Jewish intellectual, philosophical, literary, theological and social traditions developed from the Biblical period onward--distinct from but in steady interaction with the traditions of countries in which Jewish life flourished. During the last 3,000 years, Jewish communities existed throughout the world, contributing to and absorbing from the cultures they touched. As an academic discipline, Jewish studies concentrates on its own inner continuities, as well as the ways it has affected--and been affected by--its host cultures. To study Jewish thought and history is to better understand the underpinnings of both Jewish and Western cultures, as well as the mutual influences which helped shape each. Not a single discipline, Jewish Studies draws upon many methodologies and disciplines. A Jewish Studies Program at the University of Delaware will deepen the understanding of Western civilization, and contribute significantly to all the programs whose methodologies it uses.

In addition, a Jewish Studies Program will further the university's goal of a multi-cultural education. The geographic and intellectual history of Jews in the world addresses the way the outsider coexists (and often struggles) with the insider, to maintain both physical and cultural survival. Although representing a small minority within its host cultures, Jewish intellectual development has had a profound and immeasurable impact on the evolution of Western philosophy, literature, and political and social thought. The influence of contemporary American Jewish writers on the shape of modern writing is a notable example. In addition, the vantage point of Jewish Studies offers a means to grapple with the implications for Western civilization of the Holocaust and its aftermath.

As evidenced by the growing number of academic journals focusing on Jewish Studies, the plethora of articles on Jewish Studies in other disciplinary journals, and the mounting numbers of books and series on Jewish Studies published by academic presses, Jewish Studies is a vibrant and significant academic discipline. The Jewish Studies Program at Delaware would join the hundreds of such programs presently in place at American universities today.

- II **Description:** Jewish Studies is, by nature, a interdisciplinary, multi-cultural concentration, drawing on many disciplines and methodologies. To this end, the Jewish Studies Program will develop courses covering the following areas:

1. Jewish texts (Bible, Talmud, Midrash, later rabbinic texts)
2. Jewish history (ancient and modern)
3. Jewish philosophical thought (ancient and modern, including mysticism))
4. The American Jewish experience
5. Jewish literature

6. The Holocaust
7. Israel
8. Non-Western Jewish civilization

While some of these areas may be covered in other courses--for example, a World Civilizations class may cover events which strongly affected Jewish life, a Comparative Literature class may read Jewish writers, a Classics class may look at the Old Testament--the Jewish Studies perspective would treat these subjects differently. A Jewish Studies class would consider, for example, the impact of certain historical events on Jewish continuity and development (e.g. the Crusades, the Spanish Inquisition, the Enlightenment). It might examine Jewish writers in terms of their Jewish sources, their status as outsiders, their exploration of Jewish experience. It would consider Biblical narrative and exegesis in terms of Jewish, rather than Christian, hermeneutics; its frame of reference would be the Hebrew Bible, and not the Old Testament.

III Timetable: We propose to have the Jewish Studies minor concentration take effect in Fall 1990. It is hoped that the success of the Minor will warrant the institution of a Jewish Studies major at some future date.

IV Housing: The Jewish Studies minor will be housed temporarily in the Philosophy Department. Professor Sara R. Horowitz (University Honors Program/English) has agreed to oversee the planning and implementation of the Jewish Studies minor.

V Requirements for Minor Concentration: minimum of 15 credits, drawn from the following:

Required:

1. One course in ancient Jewish texts (The Hebrew Bible, Talmud, Midrash)
2. One course in later rabbinic texts, Jewish thought or theology

Elective:

3. Courses in Jewish culture (literature, art, film, folklore)
4. Courses on contemporary issues of the Jewish community
5. Courses in Jewish history and social sciences

VI Current Faculty/Course Resources:

- . The Jewish Studies Minor draws upon current full-time tenured or tenure-track faculty who, with the approval of their respective department chairs and the Dean of Arts and Science, have agreed to continue to offer existing courses and/or to develop new courses which meet the requirements of the Minor.

Current courses:

As of Spring 1990 (90B), the following courses are already offered at the University of Delaware, taught by present faculty. They either meet, or may be adapted to meet, a Jewish Studies focus:

Rabbinic texts, Jewish thought or theology:

- PHIL 367: Introduction to Jewish Philosophy (R. Weiss)
- PHIL 204: World Religions
- PHIL 202: Contemporary Moral Problems

Jewish culture

ENG 267: Fiction of the Holocaust (S. Horowitz)
ENG 480: Jewish Literature: The Books of the People
of the Books (S. Horowitz)
ENG 480: Senior Seminar in Literature of the
Holocaust.

Contemporary issues of the Jewish community

ENG 318: Film of the Holocaust (S. Horowitz)
PSC 377: Arab-Israel Politics (Miller)
PSC 409: Contemporary problems in World Politics:
Israel (Palley)
SOC 430-10: Institutions of Israel (Klaff)

Jewish history and social sciences

HIST 464: The Holocaust (W. Fletcher--retired, but
will continue offering the course)
PSc 452: Problems in Urban Politics: Israel (Palley)
SOC 430-11: Israeli Urban Society (Klaff)

Additional courses

Relevant department chairs and faculty have approved the following
new courses, to be offered during 1990-91 and/or 1991-92 by faculty
currently at the university:

Ancient Jewish texts:

E3XX: Introduction to Jewish Sources: Text and
Interpretation (Horowitz)

Jewish culture:

E3XX: Social Protest in the Jewish-American Novel
(Elaine Safer)
E480: Jewish Humor (Halio)

Jewish history and social sciences:

PSC/SOC/HIST Introduction to Jewish Studies: the social
sciences [a tri-module, three credit course
covering topics in politics/sociology/
history](Palley, Klaff, Ellis, et. al.)

Contemporary issues of the Jewish community

AS267-8X Issues in contemporary Jewish Studies
(Horowitz, et. al.)

In addition, the Sociology Department has expressed the
department's willingness to accept course proposals related to
Jewish Studies, to be taught by Vivian Klaff.

Courses with a X67 number can count towards the Jewish Studies minor
with the approval of the program director. The registration booklet
will indicate which sections meet the program requirement. Special
problems courses may also count towards the Jewish Studies minor with
the approval of the program director.

Courses on the archaeology of the Middle East; Hebrew, Yiddish, and other ancient and modern Jewish languages; Middle East history and politics would be integrated into the Jewish Studies curriculum if offered at the University.

VII **Advisement:** The program director will advise students who elect the minor concentration in Jewish Studies.

VIII **Program Director:** Professor Sara R. Horowitz (University Honors Program/English) has agreed to serve as director of the Jewish Studies Program. Functions include: a) co-ordinating the faculty resources and course offerings within the university; b) advising students; c) publicizing the program on campus; d) developing on-campus activities which enhance the program, such as colloquia, lectures, film series, and cultural events; e) maintaining liaison with other Jewish Studies programs; f) preparing a budget. As per the approval of the Dean, the Director will receive course-release time or an administrative supplement.

IX **LIBRARY RESOURCES:** The library's current collection in Jewish Studies is adequate to the needs of the Minor, but might be expanded to meet increasing student and faculty interest.

X **Constituency:** The Jewish Studies Program is intended neither as a program of advocacy for a particular set of beliefs, nor for only those students who identify with a particular faith. Judging by the present enrollments in courses currently in place--such as Films of the Holocaust (E318), Fiction of the Holocaust (E367), Jewish Thought--Jewish Studies courses have wide student appeal.

In addition to minors, the Program would serve the needs of other students interested in pursuing particular subjects within the larger scope of Jewish Studies, and connected to their academic interests at the university.

XI **Relationship to existing programs:** The proposed Jewish Studies minor seeks to ground students in the many interconnected facets of Jewish civilization, culture and thought, including history, literature, philosophy, sociology, religion, politics, and language. While the study of Judaism as a religion is part of Jewish Studies, it represents only one aspect of it. This broad-based, interdisciplinary orientation requires an independent Jewish Studies minor--one not linked to the Religious Studies minor currently under consideration.

The Jewish Studies Advisory Committee:
Co-ordinator: Professor Sara R. Horowitz
(UHP/English); Professors Frank Dilley
(Philosophy), Jack Ellis (History), Vivian
Klaff (Sociology), Marian Palley (Political
Science), Barry Seidel (Mechanical
Engineering), Richard Venezky (Educational
Studies), Roslyn Weiss (Philosophy)

DEGREE: BACHELOR OF ARTS
MAJOR: SOCIOLOGY
CONCENTRATION: DATA ANALYSIS

SUGGESTED CURRICULUM

CREDITS*

UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing

3¹

COLLEGE REQUIREMENTS

Skill Requirements

Writing: A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.

3^{3,4}

Foreign Language: Completion of the intermediate-level course (107, 112, or 118) in a given language or satisfactory performance on a placement test in the language of the student's choice.

0-12¹⁻⁴

Mathematics:

M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)

3¹

or

M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)

3

or

one of the following:

M 211 Introductory Calculus

4

M 221 Calculus I

3

M 241 Analytical Geometry and Calculus A

4

or

Successful performance on the college proficiency exam

Breadth Requirements+ (See page 40)

Group A. Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.

12¹⁻⁴

- Group B. The study of culture and institutions over time. 12¹⁻⁴
Twelve credits representing at least two areas.
- Group C. Empirically based study of human beings and their 12¹⁻⁴
environment. Twelve credits representing at least two
areas.
- Group D. The study of natural phenomena through experiment 12¹⁻⁴
and analysis. A minimum of thirteen credits
representing at least two areas including a minimum
of one course with an associated laboratory.

DATA ANALYSIS CONCENTRATION

Required Course in Major

Soc 201	Introduction to Sociology
Soc 301	Introduction to Sociological Research
Soc 312	Development of Sociological Theory

Required Courses in Concentration

Soc 401	Advanced Sociological Methods
Soc 411	Techniques of Demographic Analysis
Soc 414	Data Analysis

Elective Courses in Major

Any five additional Sociology Courses. A maximum of three courses at the 200 level may be counted toward the major.

Total Course Hours in the Major: 33

Related Work: Required and Recommended (15 credit hours)

Soc 412*	Practicum (4 credit hours)
St 201*	Introduction to Statistics I
St 202*	Introduction to Statistics II

*Required

105	GENERAL COMPUTER SCIENCE
CIS 99	Introduction to Digital Computer Programming
G 250	Computer Methods in Geography
G 470	Computer Cartography
PHL 208	Experience, Knowledge, Reality
PHL 244	Ethical Issues in Scientific Research
EC 422	Introduction to Econometrics
ST 418	Sampling Methods
ST 420	Data Analysis and Nonparametric Statistics

Data Analysis Concentration: for students who intend to pursue careers in government, industrial, or private organizations/agencies that are involved in the collection, analysis, and reporting of social information. The program involves concentrated study of the issues and techniques surrounding the collection and analysis of social data. Furthermore, students receive on-the-job experience through field placement practice.

memorandum

Attachment 27



December 15, 1989

To Whom It May Concern

From: David Pong and Richard Zipser, Co-chairs,
East Asian Studies Program Committee

Subject: Establishment of a new Minor in East Asian Studies without Language

The rise of a Communist government in China in 1949, and the subsequent emergence of Japan as a world economic power, closely followed by the economic successes of such countries as South Korea and Taiwan deserve to be recognized collectively as a subject for study at the University of Delaware. Fully developed East Asian studies programs, complete with graduate-level instruction, are common among universities comparable to our own. Traditional emphases on other branches of studies at Delaware have resulted in a low-level development for East Asian studies. It is therefore unrealistic to envisage for this University a full-blown academic program that would include the award of graduate degrees. Nevertheless, we should be able to implement a modest program comprising a major, a minor with language, and a minor without language over the next five years or so. Thus, even though our present resources can only support a Minor in East Asian Studies without Language, we would like the various bodies and authorities concerned with undergraduate instruction to consider and approve the program in toto. In this way, the major and the minor with language could be instituted as academic resources become available, without having to repeat in each instance the deliberation that had already gone into the approval of the minor without language.

The proposed program in its totality is intended to serve our student body in two distinct but closely related ways. The first is to meet student demands. Existing courses on East Asia, mainly China and Japan, have been consistently oversubscribed in recent years. (Enrollment is limited only by the professors' capacity to handle larger classes without sacrificing the quality of instruction.) Among the students there is a growing interest in a more structured course of studies focused on East Asia. The second is to arouse the interest of the majority of our students who have been relatively sheltered from the non-Western world. An East Asian Studies Program, with its public lecture and film series as well as other functions and activities, will both increase student interest and enrich campus life.

The East Asian Studies Program Committee, in its present form as well as its earlier incarnation, has been meeting since 1986. In the course of its deliberations, it has sought

and received recommendations, criticisms, and support from interested departments and programs across the campus. In addition, it has benefited from the detailed reports of two outside consultants, well-known scholars and administrators of East Asian studies programs at Oberlin College and Lehigh University. (Their reports are enclosed.) The Committee is grateful to the UNIDEL Foundation for a grant, without which the extended period of preparatory work would not have been possible.

For your information, membership in the past year-and-a-half comprises the following:

Heyward Brock, Associate Dean of Arts and Science (ex officio)
Chang Yi-chun, Political Science (replaced William Boyer)
Thomas Ernst, Linguistics
David Pong, History
Nathaniel Puffer, Library
James Thornton, Economics
Michael Zinn, Music
Richard Zipser, Foreign Languages and Literatures

EAST ASIAN STUDIES WITHOUT LANGUAGE

Dr. David Pong

This is an interdisciplinary program for students wishing to focus their interests in East Asia as an enhancement and complement of their undergraduate majors.

Number of credits required: 18

Courses required:

Introductory courses: 6 credits in two disciplines in the humanities (excluding 100-level language courses).

History: H 230 The Age of Confucius
Music: MU 2XX East Asian Music (will be created and offered in alternate years)

6 credit in two disciplines in the social sciences.

History: H 137 East Asian Civilization: China
H 138 East Asian Civilization: Japan

Advanced courses: 6 credit hours from such disciplines as economics, history, linguistics, and political science. They include the following courses:

Economics: EC 3XX East Asian Economic Systems (to be created)
History: H 267 London and Peking, 1600-1900
H 391 History of Modern China
H 392 History of Modern Japan
H 3XX China and the West (currently offered as AS 605)
H 479 Studies in Asian History
Linguistics: LIN 467 Structure of Chinese
LIN 407 Structure of Japanese
Political Science: PSC 429 East Asian Political Systems
PSC 443 Foreign Policy of China

Substitutions for the above courses may be made with permission from Dr. Pong.

A grade of "C" or better is required in all courses for the minor.

EAST ASIAN STUDIES PROGRAM

University of Delaware

East Asia is one of the most important regions of the world. From an economic standpoint, it is perhaps the most dynamic. Its leading nations are a major force in international politics. Their developmental experience invites serious study and even emulation. The history and cultures of the region are as rich as they are varied.

In recent years a strong movement has emerged to broaden the scope of education for the nation's youths. State after state have introduced either global studies or non-Western studies to the curriculum, from grade schools through institutions of higher learning. The University of Delaware has also taken a significant step in this direction, requiring of all entering freshmen in 1993 a year of global history and civilization in high schools. Non-Western studies in other disciplines will no doubt be taught at the pre-collegiate level in the future. A strengthening of the various fields of non-Western studies in the University will therefore perform two very important functions: to provide opportunities for students who, having developed an interest at the high school level, wish to further their intellectual inquiries; and to help train future teachers at the primary and secondary levels. Increasingly, a deeper knowledge of the world is regarded not only as essential for the citizens of this nation but also as a basic skill for those who are destined to lead this nation into the twenty-first century. An East Asian studies program at the University of Delaware will constitute a major contribution to these educational and civic missions.

Ideally, the geographical coverage of an East Asian studies program should include China, Japan, Korea, and Southeast Asia. Available resources at the University of Delaware do not warrant a program of this broad geographical spread at this moment. Nevertheless, they are adequate as a base on which Chinese and Japanese studies can be built in the near future. It is hoped that Korean and Southeast Asian studies will follow in the not-too-distant future.

The present proposal therefore calls for the creation of an East Asian Studies Program (EASP) focusing on China and Japan. These nations are currently the most powerful in the region, politically and economically. They provide alternative models for development. The longevity of their history as well as the depth of their cultures rank them among the great civilizations of the world. A knowledge of them is essential to the educated person of our time, and expertise in them is critical to our national survival. To make East Asian studies available to the students of the University of Delaware is therefore a matter of great urgency.

We envisage the EASP to be an interdisciplinary program. The main purpose is to provide an opportunity for our students to study the Chinese and the Japanese languages, and to familiarize themselves with the history, geography, culture and the arts, literature, philosophy, religion, economics, and politics of the two countries. To this end, the EASP offers a major, a minor with language, and a minor without language.

The Major in East Asian Studies (36 credit hours)

This interdisciplinary major combines course work in several disciplines with language study. The 36 credit hours are to be distributed in the following manner:

Introductory Courses: 12 credit hours in social science and 9 in humanities (see list on p. 3).

Advanced Courses: 6 credit hours in the target language at the 200-level or above, and 9 credit hours in at least two of the following disciplines - economics, history, linguistics, political science, etc.

In addition, students are expected to have completed 12 credit hours of elementary and intermediate language training before embarking on advanced-level language courses. These elementary/intermediate language courses do not count towards the major.* In selecting advanced language courses, students may concentrate on either China or Japan, but not both.

The Minor in East Asian Studies without Language (18 credit hours)

The 18 credit hours for this minor are to be distributed in the following manner:

Introductory Courses: 6 credit hours in two disciplines in the humanities

6 credit hours in two disciplines in the social sciences

Advanced Courses: 6 credit hours in other disciplines (economics, history, linguistics, political science, etc.)

The Minor in East Asian Studies with Language (18 credit hours)

In addition to the requirements of the EAS Minor without Language, students in this minor are required to select 12 credit hours of elementary/intermediate Chinese or Japanese (but not both).* Note: these courses fulfill the College of Arts and Science foreign language requirement.

* Elementary/intermediate language courses are listed on p. 4.

Introductory Courses (@ = currently offered; # faculty and academic resources already in place):

Humanities:

- CSE 2-- Chinese Literature in Translation (to be created)
- CSE 2-- Contemporary Chinese Culture (to be created)
- JSE 2-- Japanese Literature in Translation (to be created)
- JSE 2-- Contemporary Japanese Culture (to be created)
- @ H 230 The Age of Confucius (offered annually)
- # MU 2-- East Asian Music (to be created)
- PHL 310 Chinese Religion and Philosophy (currently not taught)

Social Sciences:

- ANT 2-- Peoples and Cultures of East Asia (to be created)
- ANT 2-- Technology and Culture in East Asia (to be created)
- @ H 137 East Asian Civilization: China (offered annually)
- @ H 138 East Asian Civilization: Japan (offered annually)
- @ PSC 3-- East Asian Political Systems (currently offered as PSC 429)
- WS 2-- Gender, Individuality, and Family in East Asia (to be created)

Advanced Courses:

- CSE 2-- Advanced Chinese I (to be created and offered annually)
- CSE 2-- Advanced Chinese II (to be created and offered annually)
- CSE 2-- Conversational Chinese (to be created and offered annually)
- JSE 2-- Advanced Japanese I (to be created and offered annually)
- JSE 2-- Advanced Japanese II (to be created and offered annually)
- JSE 2-- Conversational Japanese (to be created and offered annually)
- @ H 267 London and Peking, 1600-1900 (taught regularly)
- @ H 391 History of Modern China (offered annually)
- @ H 392 History of Modern Japan (offered annually)
- @ H 3-- China and the West (currently offered as AS 605)
- @ H 479 Studies in Asian History (offered occasionally)
- @ LIN 467 Structure of Chinese (offered in alternate years)
- @ LIN 407 Structure of Japanese (offered in alternate years)
- # PSC 4-- Contemporary Chinese Politics (to be created and offered annually)

- # PSC 4-- Contemporary Japanese Politics (to be created and offered annually)
- @ PSC 443 Foreign Policy of China (offered annually)
- # EC 3-- East Asian Economic Systems (to be created and offered annually)

* Elementary/intermediate language courses comprise the following:

- CSE 105 Elementary Chinese (4 credits)
- CSE 106 Elementary/Intermediate Chinese (4 credits)
- CSE 107 Intermediate Chinese (4 credits)
- JSE 105 Elementary Japanese (4 credits)
- JSE 106 Elementary/Intermediate Japanese (4 credits)
- JSE 107 Intermediate Japanese (4 credits)

Students in the EASP, whether selecting the major or one of the two minors, should consult with the Program Director to ensure a coherent program of study.

Faculty Resources

An East Asian Studies Program worthy of its name should ideally be able to offer courses from such disciplines as anthropology, art history, business and economics, geography, history, languages and literature, linguistics, music, philosophy and religion, political science, sociology, and women's studies. However, there are in the University of Delaware only three faculty whose research and undergraduate teaching are focused primarily on China, Japan, and Southeast Asia. They are as follows:

Chang Yi-chun	Pol. Sci.	China & Japan
Pong, David	Hist.	China & Japan
Zinn, Michael	Music	Ethnomusicology, SE Asia

Two other professors who belong to a graduate studies program could offer an advanced-level undergraduate course for the EASP:

Arena, Louis	Ling.	Japan
Ernst, Thomas	Ling.	China

There are also two faculty members who have a primary research interest in East or Southeast Asia but, for various reasons, neither of them currently offer courses that can be included in the EASP. They are:

Halbrendt, Catherine	Food & Resource Economics	China
Schreuder, Yda	Geog.	Mainland Southeast Asia

In addition, the following faculty members have a secondary research or teaching interest in East or Southeast Asia. At present, only Professor Liu offers courses that can form part of the EASP.

Abrams, Burton	Econ.	China
Boyer, William	Pol. Sci.	Korea
Cole, Peter	Ling.	China
Hareven, Tamara	Family Stud.	Japan
Latham, William	Econ.	Korea
Liu, Tai	Hist.	China
Palley, Marian	Pol. Sci.	Korea
Roe, Peter	Anthro.	Japan
Thornton, James	Econ.	Japan

Under the present circumstances, the EASP would be able to offer only a limited range of courses. While some of the above-mentioned faculty are willing or in a position to develop new courses, new faculty must be hired to help launch the EASP.

The following positions are most urgently needed:

- Chinese language and literature
- Japanese language and literature
- Japanese history
- Japanese politics

The following positions are essential to a strong program:

- Philosophy and religion of East Asia
- History of East Asian art
- Sociology or anthropology related to China and Japan

Every effort will be made to secure outside funding for the EASP and new faculty appointments. Sources such as federal agencies, foundations (both US and Japan), and corporations will be explored. Preliminary steps have been taken to collect information for this purpose.

In the meantime, existing faculty willing to develop courses for the EASP should be given every encouragement and support. Once the EASP is approved, instructional development grants should be sought with the EASP's support from the Center for Teaching Effectiveness and other sources.

To enrich its course offerings, the EASP would especially welcome visiting scholars who could offer courses that satisfy the EASP major or minor requirements.

Library Resources

Current holdings in the Morris Library are fairly adequate for teaching purposes in Chinese and Japanese history, and in contemporary Chinese affairs. Resources in other fields or disciplines are poor. The China and Japan collections have been built up over many years with significant faculty input in the acquisition process. This requires an inordinate amount of faculty time ploughing through catalogues. This practice also results in unsystematic acquisitions. It should be discontinued. Instead, a library staff proficient in the Chinese and Japanese languages should be assigned special responsibility for the systematic acquisition of books and periodicals on East Asia. The Library should also subscribe to more newspapers in the languages of the region, in addition to the influential English-language papers (the Japan Times and the South China Morning Post) we now receive.

Despite current shortcomings, it must be emphasized that the Library has been extremely cooperative. Building an Asian collection is one of its targets. But the Library does not have an area specialist who could operate independently without considerable faculty input. As the EASP is being established, institutional resources must be provided for additional staff support to enrich the Library's East Asian holdings.

The present holdings of the Morris Library are adequate for the Minor in East Asian Studies without Language.

Audio-visual Resources

The Instructional Resource Center housed in the Morris Library has a small number of film/video cassettes on China ("Misunderstanding China", "Chinese Buddhism", "The Heart of the Dragon", and "All under Heaven", the first part of the Long Bow Village trilogy). There may be others that we are not aware of.

The History Department's Media Center has about twenty video cassettes on China and Japan, and several sets of filmstrips as well as 4,500 slides on the history and art of these two countries. The slides are catalogued and are easily retrieved by using the computer in the Media Center.

The Art History Department has an unknown number of slides, as does the Philosophy Department.

The Music department has a "decent" library of musical performances (audio and video) related to East and Southeast Asia. Professor Zinn also has a rich collection of his own.

Materials for language instruction are limited at present. The modernization of the language laboratory now underway will provide the capability for creating a variety of new instructional materials.

Organization

The EASP at the University of Delaware shall have a Director whose responsibility is to coordinate the teaching faculty, advise students and attend to matters related to EASP. On campus, the Director is the EASP's liaison with participating departments and programs as well as other relevant bodies such as the Council on International Programs, Office of International Programs, Office of Special Sessions, and the International Center.

The Director and the teaching faculty should be drawn from the various departments, programs, and colleges of the University. They shall, in addition to their respective tenure-track appointments in departments, hold secondary appointments in the EASP. Secondary appointment entails teaching on average at least one course per year for the EASP. Other faculty who offer courses for the EASP on a less frequent basis may become its associates.

Whereas the day-to-day administration of the EASP is the responsibility of the Director, major policy decisions should be made by the East Asian Studies Committee, with the Director as its chair. The Committee shall consist of teaching faculty members only. No department or program shall have more than two voting members on this Committee in a given academic year.

The EASP shall have an Advisory Council comprised of about six to eight prominent Delawarians who are known for their expertise in or concern for East Asian affairs and who can help the EASP in its various activities.

Outreach

At all levels of our educational system, in the business sector, and in the community at large, there is a growing interest in and need for information on East Asia. The EASP at the University of Delaware will be in a strategic position to address those needs. The faculty and the Library will be valuable resources. The speakers series, films, and cultural events sponsored by the EASP would provide additional links to the community.

Implementation

The EASP recommends that the proposal be implemented in two phases, as follows:

- Phase I: The Minor in East Asian Studies without Language should be implemented forthwith;
- Phase II: The Minor in East Asian Studies with Language should be implemented as soon as full-time language instructors are in place;
- Phase III: The Major in East Asian Studies should be implemented, if student demand is sufficient, as soon as ample resources become available.

BUDGET

Operating expenses (a part-time secretary, office supplies, mailing and telephone calls)	\$ 15,000 p.a.
Office Space	
Capital expenses (a computer, Chinese and Japanese language softwares, a laser printer, and the usual office furniture)	\$ 8,000
Reimbursement to the Department/Program from which the EASP Director comes (for one course reduced teaching load - money to fund part-time instructors to teach courses for the EASP)	\$ 6,000 p.a.
Film rental and acquisition, slide collection, colloquia, visiting speakers, artistic performances, and other enrichment and public events	\$ 8,000 p.a.
Faculty travel (attend conventions, etc.)	\$ 2,000 p.a.
Library resources	\$
Library staff in charge of acquisition and cataloguing of East Asian materials.	\$ p.a.
A quarter-time History Department Media Center assistant to expand, catalogue, and manage the slide collection, and to take charge of book-keeping, film rental, etc.	\$ p.a.

Note: Costs should be adjusted to take care of inflation between now and the official commencement of the EASP.

THIS DOCUMENT WAS PREPARED IN EARLY DECEMBER 1989

Memorandum



December 7, 1989

TO: Professor David Pong and
Professor Richard A. Zipser
Co-Chairs, East Asian Studies Program

FROM: David Herman, Chair
Department of Music *David Herman*

SUBJECT: Participation of Professor Michael Zinn

I am pleased to learn of the development of the East Asian Studies Minor, and the role of our course in East Asian music within that program. This is to let you know that Professor Michael Zinn will be available to teach this course. It is our understanding that the course will be offered in alternate years.

Best wishes to you in implementing this new program.

DH/djb
c: Dr. Michael A. Zinn

DEPARTMENT OF ECONOMICS
UNIVERSITY OF DELAWARE
NEWARK, DE 19716

M E M O R A N D U M

TO: To Whom It May Concern

FROM: James R. Thornton *J. Thornton*

DATE: April 4, 1990

SUBJECT: Economics Course for East Asian Studies Minor

I plan to develop a comparative economics system course that focuses primarily on Japan's economic institutional arrangements and how they differ from those in the U.S. Many people believe we can learn from the Japanese, and the course will explore that issue. In addition to a relatively detailed examination of Japan, the course will briefly describe China's experience with central planning and the West German and French economies. I plan to offer several sections of the course every fall; it will satisfy one of the economics requirements for International Relations majors.

jh



University of Delaware

DEPARTMENT OF HISTORY
401 JOHN EWING HALL
NEWARK, DELAWARE 19716

(302) 451-2371

February 15, 1990

To Whom It May Concern:

The Department of History strongly supports the creation of a Minor in East Asian Studies without Language. The Minor will complement the Department's efforts at promoting global awareness among the students of Delaware, and it will further complement our own work over the past two years in promoting the teaching of world history. Members of our faculty are encouraged to offer courses that would form part of the requirements for the East Asian Studies Minor. We hope the day will soon come when the resources of this University could support both a Minor and a Major with full language components.

A handwritten signature in cursive script, reading "Jack D. Ellis".

Jack D. Ellis, Professor and Chair
Department of History



University of Delaware

COLLEGE OF ARTS & SCIENCE
DEPARTMENT OF LINGUISTICS
46 E. DELAWARE AVENUE
NEWARK, DELAWARE 19716

(302) 451 6806

MEMO TO: David Pong
History

FROM: Peter Cole

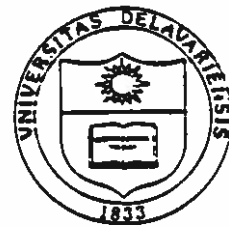
DATE: February 22, 1990

SUBJECT: Asian Studies

Thank you for sending me a copy of your proposal. We strongly support your effort to develop Asian Studies at the University of Delaware, and will cooperate with you in any way possible.

PC/jac

Memorandum



March 1, 1990

TO: Ralph Exline, Chair
Graduate Studies Committee

FROM: Victor Martuza, Chair *VM*
Educational Studies

SUBJECT: Proposed MA Specialization in ESL/Bilingualism

Dr. Gabriella Hermon has informed me that your committee may be concerned about the budgetary implications of this proposed program. Let me assure you that the program will require no new resources at this time or in the foreseeable future. Most of the core courses are already being taught by faculty members in Linguistics and EDS. The two new courses (EDS/LIN 676 and EDS/LIN 677) will be taught by Dr. Hermon as part of her regular teaching assignment. In fact, the first of these has already been offered twice under an experimental number.

I want to stress the importance of this program in view of the demographic changes occurring throughout the country due to the influx of immigrants from Latin America and Asia. This program is not only responsive to the land grant mission of the University, but will also play a part in attracting foreign students who can contribute to the achievement of our cultural diversity goals. I hope that your committee will handle this proposal expeditiously so we can begin recruiting students for this program.

VM:blo

cc: Gaby Hermon
Frank Murray, Dean

Proposal For a Specialization in ESL/Bilingualism

We would like to propose an ESL/Bilingualism specialization in the Master of Arts of Educational Studies degree. This specialization is a unique program, in that it is a cooperative effort between the departments of Educational Studies and Linguistics.

Reason for proposal: There is an increasing need in Delaware, as well as in the neighboring states for teachers (grades K-12) trained for working in bilingual and/or ESL programs. In general, populations of children of limited English proficiency (LEP students) in the United States are expanding at a faster rate than the English-speaking majority. It has been estimated that nearly one teacher in four has had LEP students in class and that by the year 2000, the number of LEP students aged 5-14 will reach approximately 3.4 million. In a recent study published by the National Clearinghouse for Bilingual Education, Virginia Collier reports that the 1980-1982 Teachers Language Skills Survey identified the need for 100,000 bilingual teachers. In 1982 there were an estimated 27,000 to 32,000 trained bilingual teachers, thus leaving 68,000 to 73,000 yet to be trained. Since 168 Institutes of Higher Education currently graduate approximately 2,000 trained bilingual teachers each year, we have a long way to go. The survey also identified 103,000 teachers who were assigned to teach ESL and of whom only 40 percent had received any training in methods of teaching ESL. It was estimated that at least 350,000 teachers need specialized ESL training. (Figures are from Blatchford 1982 and O'Malley and Wagoner 1984).

As far as the situation in Delaware is concerned, Rebecca Scarborough, state supervisor of foreign languages, reports that Delaware public schools enroll some 640 LEP students, including 361 students in the Hispanic bilingual program run by Red Clay. See the attached report on state initiatives in this area.

The new ESL/Bilingual specialization would have a twofold purpose:

- a. It would provide teachers who are currently teaching in the school systems (grades K-12) with the skills necessary to work in school settings requiring extensive knowledge and experience in dealing with children and adults of varied cultural and linguistic backgrounds. Thus, the program, which would lead to certification as an ESL or bilingual teacher, would be aimed at training teachers to work with LEP students. The coursework offered by the program would be appropriate not only for teachers who are new to the ESL/bilingual area, but also for current ESL/bilingual teachers who wish to further their careers through advanced study.

b. The program would also be attractive to students who do not necessarily want to teach in the US public schools, but who wish to obtain a masters degree in ESL in order to teach English abroad. In addition, the ESL degree will be of interest to foreign students, in particular students from Taiwan, China, Korea, and Japan, who wish to return to their own countries to teach English.

The ESL/ Bilingual Masters program will consist of 33 graduate hours. The 33 hours of course requirements include a core of 12 hours of coursework in education, a concentration of 15 credit hours in Linguistics, Bilingualism and ESL, and 6 credit hours of elective courses (including a 3 credit hour research course). The elective courses are to be selected from a list of recommended courses and will vary depending on whether the student is mainly interested in teaching in a bilingual or an ESL setting. In addition, in order to satisfy the research requirement for the general M.A. degree in Educational Studies, students are required to write a research paper of publishable quality covering either design, experimental, or analysis work. In designing the program we followed the integrated approach to training bilingual and ESL teachers argued for in Collier (1987) and Ovando and Collier (1985).

The following is an outline of the proposed program:

Admission Requirements:

1. A minimum undergraduate cumulative index of 3.0 (B).
2. A minimum graduate cumulative index of 3.5 for all graduate courses completed.
3. Graduate Record Examination quantitative and verbal test scores. (A TOEFL may be substituted for the GRE-Verbal Score by applicants whose primary language is not English.)
4. A TOEFL score of 550 for applicants whose primary language is not English.
5. Three letters of recommendation from individuals able to assess the applicant's academic potential.

Program Requirements:

Education Courses (12 credit hours; choose one course from each category)

1. Research Techniques: EDS 607 - Educational Research Procedures, or equivalent.

2. Curriculum/teaching: EDS 629 - Psychology of Teaching, or EDS 627 - Models of Instructions, or equivalent.
3. Cognition/Instruction: EDS 636 - Advanced Educational Psychology, or EDS 820 - Cognition and Instruction, or equivalent.
4. Foundations: EDD 612 - Ethnic Studies and Multicultural Education, or EDS 640 - Philosophy of Education, or EDS 641 - Social Philosophy of Education, or EDS 648 - Politics of Educational Policy, or equivalent.

For students with appropriate background, relevant 800-level seminars may be substituted for any of these requirements. Permission of the Program Coordinator must be obtained for such a substitution.

Linguistics, ESL and Bilingualism (15 credit hours)

1. *EDS 676 - Language and Bilingualism
2. LIN 698 - Teaching English as a Second Language or equivalent (such as *LIN 699 - Issues in Teaching LEP Students)
3. LIN 622 - Language Syllabus Design
4. LIN 624 - Second Language Testing
5. *EDS/LIN 677 - The Structure of English. This is a course in current linguistic theory and its application to the study of English syntax. Students in the program need to write a paper contrasting the structure of English with the structure of a second language.

*New Courses

Electives (3 credit hours)

One of the following courses:

1. Language Planning - LIN 617
2. Second Language Acquisition - LIN 880
3. Seminar in Language Development - EDS/LIN 841
4. Applied Spanish Linguistics - LIN 631
5. Sociolinguistics - LIN 618
6. Dynamics of Language Contact - LIN 604
7. Psycholinguistics - LIN 696
8. Psycholinguistics of Second Language Reading - LIN 693
9. Syntax I - LIN 609

Research project (3 credit hours)

The electives are to be chosen with the approval of the program coordinator and should reflect the primary interest of the student. New courses may be added to the list in the future. Note that not all the elective courses may be available in any given semester or year. Some courses may be available in any summer. For example, teachers may participate in the Bilingual Education/ESL Institute co-sponsored by the Department of Public Instruction and the Georgetown University Bilingual Education Service Center. In addition, some of the courses (such as LIN 698 and LIN 699) may be offered at the Dover campus.

Field Experience and Student Teaching

It is expected that completion of the program will take three semesters. Ongoing field experience in a bilingual and/or ESL setting will be provided as an integral part of the methods courses (LIN 698 and LIN 699) and the syllabus design course (LIN 622). Opportunities for field experience are available in the Red Clay school district's bilingual program and in the various ESL classes offered on campus. In addition, students who possess teaching certificates and who wish to be certified as ESL/bilingual teachers will have to complete 9 weeks of student teaching in a bilingual/ESL setting or document previous ESL/bilingual work experience.

CERTIFICATION REQUIREMENTS

Although the program is designed to meet both NASDTEC and DPI certification standards (see attached table), it does not automatically certify students as ESL or Bilingual teachers. In order to get certified, students completing the program may have to satisfy additional requirements, such as student teaching and foreign language requirements. (See addendum on Certification Requirements). The following is a summary of the language requirement for certification:

For bilingual teachers: Bilingual teachers need to be able to effectively communicate in the target group's language in order to be able to teach content areas in that language. This requirement can be fulfilled by completing 15 hours of course work in the target language at or above third year college level or by passing a language proficiency test (advanced level, ACTFL standards).

For ESL teachers: ESL teachers need to have at least 6 hours of a foreign language at the 200 - 300 level and pass a proficiency test (intermediate level, ACTFL standards).

Note that language courses are not counted as degree credits. Students are encouraged to complete the language requirement over the winter and summer sessions.

Suggested Two Year Schedule

Fall	EDS 607: Research Procedures Curriculum Teaching Course LIN 624: Second Language Testing LIN 699 or LIN 698 (Methods course)
Spring	Foundations course EDS 676: Language and Bilingualism LIN 622: Language Syllabus Design Elective
Fall	Cognition and Instruction EDS/LIN 674: The Structure of the English Language Research Requirement
Spring	Student teaching (if required) Additional Language Courses (if required)

References

- Collier, V. P. (1987). University Models for ESL and Bilingual Teacher Training. Issues in English Language Development. National Clearinghouse for Bilingual Education.
- Ovando, C. J., & Collier, V. P. (1985). Bilingualism and ESL Classrooms: Teaching in Multicultural Contexts. New York: McGraw-Hill.
- Blatchford, C. H. (1982). Directory of Teacher Preparation Programs in TESOL and Bilingual Education: 1981-1984. Washington, DC: Teachers of English to Speakers of Other Languages (TESOL).
- O'Malley, J. M., & Wagoner, D. (1984). Public Schools Teacher Preparation and the Teaching of ESL. TESOL Newsletter, 18, No. 3.

NASDTEC Certification Standards (abbreviated)

Content Standard in English for
Speakers of Other Languages

Course Offerings

- | | |
|--|---|
| 1. Nature of Language, Structure of English | EDS 676 Bilingualism and Language
EDS/LIN 674 The Structure of English |
| <hr/> | |
| 2. Demonstrated proficiency in English | TOEFL score, remedial English courses (if needed) |
| <hr/> | |
| 3. Demonstrated proficiency in a second language | Second language courses, proficiency at intermediate level (ACTFL standards) |
| <hr/> | |
| 4. L1 and L2 acquisition process | EDS 676 Bilingualism and Language
LIN 698: Teaching English as a Second Language |
| <hr/> | |
| 5. Socio Cultural variables | EDD 612: Multicultural Education, courses in sociolinguistics |
| <hr/> | |
| 6. Language assessment, program development, implementation and evaluation | LIN 622: Language Syllabus Design
LIN 624: Second Language Testing |

Content Standard in Bilingual Education

Course Offerings

- | | |
|---|---|
| 1. Proficiency in L1 and L2 | Second language courses, proficiency at advanced level (ACTFL standards) |
| <hr/> | |
| 2. Knowledge of target group's culture | EDD 612: Multicultural Education
EDS 676: Bilingualism and Language |
| <hr/> | |
| 3. Historical/legal bases for bilingual education | EDS 676: Bilingualism and Language |
| <hr/> | |
| 4. Organizational models for programs/classrooms in bilingual education | LIN 699: Issues in Teaching LEP Students
LIN 622: Language Syllabus Design |
| <hr/> | |
| 5. L2 methods of teaching | LIN 698: TESL
LIN 699: Issues in Teaching LEP Students |
| <hr/> | |
| 6. Bilingual experience | Student teaching or work experience in Bilingual setting |

Descriptions of Required Courses

Core courses in Education:

EDS 607 Educational Research Procedures 3

An introduction to quantitative methods in education through study of educational research procedures; for example, measurement, evaluation, experimental and quasi-experimental design, internal and external validity. Small projects are conducted.

EDS 629 Psychology of Teaching 3

A study of the research on teacher characteristics, teaching style and method, and teaching teaching.

EDS 636 Advanced Educational Psychology 3

Study of research and theory in educational psychology and their application to instruction and schooling.

EDD 612 Ethnic Studies and Multicultural Education 3

Content, strategies, concepts and resources for teaching comparative ethnic studies and integrating these studies into the regular curriculum. Techniques for evaluating multicultural education outcomes. Surveys the culture and history of major American ethnic groups; emphasizes the major ethnic groups in our geographic area.

Linguistics, ESL and Bilingualism

*EDS 676 Bilingualism and Language

Bilingualism and the role of language in thinking. The linguistic, psychological and social experiences of the bilingual. The influences of first language on second language learning. The role of bilingualism in education and methods of bilingual instruction.

LIN 698 Teaching English as a Second Language 3

Investigation of the literature containing the traditional and modern techniques of teaching the pronunciation, grammar, and vocabulary of American English; devising and presenting lesson plans.

***LIN 699 Issues in Teaching LEP Students**

Theoretical and instructional issues related to teaching limited English proficient students. Issues in bilingual education, theories of L2 acquisition, LEP educational models, assessment of LEP skills and understanding cultural diversity.

LIN 622 Language Syllabus Design 3

Study of the main approaches to language syllabus design and materials development including grammatically sequenced, situational, notional-functional and verbal strategy approaches. Practice in simplification, standardization, textbook evaluation and adaptation, and in design and implementation of learning units for second-language, special purpose and bilingual learners.

LIN 624 Second-Language Testing 3

Study of the principles and techniques of second-language testing including measurement of the four skills and of communicative competence. Bilingual measures. Discrete point versus integrative or pragmatic measures. Practice in item construction and analysis.

***EDS/LIN 677 The Structure of English**

The course explores current generative linguistic theories and the analysis of English phonology/morphology and syntax in the light of these theories. Contrastive analysis of English and a second language (such as Spanish).

LIN 631 Applied Spanish Linguistics 3

The application of linguistic theory to the study of Spanish structure (morphology/syntax), semantics, discourse and pragmatics. Special attention given to Spanish/English contrastive analysis and on resolving problems inherent in the teaching of Spanish. The course also focuses on refining the student's language skills.

***new courses (see attached course proposals)**



University of Delaware

5

COLLEGE OF ARTS & SCIENCE
DEPARTMENT OF LINGUISTICS
46 E. DELAWARE AVENUE
NEWARK, DELAWARE 19716

(302) 451-6806

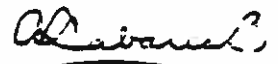
MEMO TO: Gabriella Hermon
Dept. of Educational Studies
School of Education

FROM: Angela Labarca
Chairman, Pedagogy & Testing Committee


DATE: March 2, 1989

RE: Proposal for an ESL/Bilingualism Specialization

The Pedagogy and Testing Committee of the Department of Linguistics has reviewed the proposal for the new ESL/Bilingual specialization in the Master of Arts in Educational Studies Degree. We feel that the creation of this program is an important step in meeting the growing challenge of multicultural education on this campus. We are therefore, eager to cooperate with the College of Education, and to fully contribute our resources to insuring the success of the program.



Angela Labarca
Chairman, Pedagogy & Testing
Committee



Peter Cole
Chairman, Linguistics Dept.

COLLEGE: Physical Education, Athletics and Recreation
 DEPARTMENT: Physical Education
 DEGREE: Bachelor of Science
 MAJOR: Figure Skating Science - Physical Education Studies

SUGGESTED CURRICULUM	Credit	Fresh	Soph	Jr.	Sr.
GENERAL STUDIES					
			54 Credit Hours		
UNIVERSITY REQUIREMENTS					
El10 Critical Reading & Writing	3	X			
Multicultural Course	3	X	X	X	X
COLLEGE REQUIREMENTS					
Writing: A writing course involving significant writing experience. Appropriate writing courses are normally designated in the Registration Booklet.	3		X	X	X
Area A - Communication Skills A minimum of nine credits from at least two of the following departments: English (writing/composition courses), Communication and Languages and Literature.	9*	X	X	X	X
Area B - Humanities/Fine Arts A minimum of six credits from at least two of the following departments: Art, Art History, English (literature), Music, Philosophy and Theatre. Specific courses from the College of Human Resources (Dept. of Textiles, Design and Consumer Economics) may be selected upon the approval of the advisor.	6*	X	X	X	X
Area C - Biological Sciences B XXX Biology Courses	6*	X	X	X	X
Area D - History and Social Sciences A minimum of nine credits from at least two of the following departments: Anthropology (except physical), Black American Studies, Criminal Justice, Economics, Geography (except physical and meteorology), History, Political Science, Psychology and Sociology. Specific courses from the College of Human Resources (Department of Individual and Family Studies).	9*	X	X	X	X

	Credit	Fresh	Soph	Jr.	Sr.
Area E - Natural Science and Mathematics	9*				
ND200 - Nutrition Concepts	3	X			
M XXX - Mathematics Course	3	X			
A minimum of three credits from any of the following departments: Anthropology (physical), Chemistry, Engineering, Entomology, Geography (physical and meteorology), Geology, Health Sciences (natural science area), Mathematics (except M251, 252), Physics (including Astronomy), Physical Science, Plant Science, Psychology (physiological), Statistics and Computer Science. Specific courses from the College of Human Resources (Food Science or Nutrition and Dietetics) and the College of Marine Studies).	3			X	

MAJOR REQUIREMENTS

ACADEMIC STUDIES

50 Credit Hours

External to the College

AEC201 Records and Accounts 3

Within the College

PE220 - Anatomy and Physiology	3	X			
PE276 - Personal Computers in HPER	3	X			
PE305 - Fundamentals of Athletic Train.	3		X		
PE355 - Figure Skating Practicum I	3			X	
PE356 - Figure Skating Practicum II	3			X	
PE360 - Psychology of Coaching	1		X		
PE424 - Sport Sociology	3			X	
PE425 - Athletics and Sport Psychology	3			X	
PE426 - Biomechanics of Sports	4				X
PE430 - Physiology of Activity	3			X	
PE431 - Physiology of Activity Lab					
OR	1			X	
PE433 - Lab Practicum/Exer. Phys.					
PE437 - Principles of Sports Management					
OR	3		X		
PE438 - Facilities Management in HPER					
PE440 - Strategies for Ath. Peak Perf.	3				X
PE455 - Figure Skating Practicum III	3				X
PE456 - Figure Skating Practicum IV	3				X
REC260 - Leisure Service Programming	3		X		
REC270 - Recreation Leadership	3	X			
REC310 - Safety, First Aid, Emerg. Care	3	X			

* NEW - CAF in 1st sem 1959.

Electives

After required courses are completed sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

TOTAL CREDITS REQUIRED FOR GRADUATION

128

*Minimum number of hours required. An additional twelve (12) credit hours is to be selected so that work completed under College Requirements (Areas A, B, C, D and E) will total fifty-four (54) credit hours.

Memorandum



January 8, 1990

TO: University Undergraduate Studies Committee

FROM: Carol Vukelich, Chair *Carol Vukelich*
College Undergraduate Studies Committee in Education

SUBJECT: Revisions to the Elementary Teacher Education (ETE) Program

Attached is a document describing several revisions to the ETE program.
To summarize:

Current

6 credit hours in English/
Communications, E110 plus
any other course

Discipline area in any
department outside the
College of Education

Endorsements or certifications
in Kindergarten, Mathematics
Language Studies, and Special
Education by completing
specified courses

Revised

12 credit hours in English/
Communication/Linguistics,
9 hours specified

Select from list of five areas
for discipline area with the goal
to strengthen knowledge in a
teaching area. Specific courses
selected in cooperation with
arts and science colleagues

Endorsements or certifications in
these areas and English and General
Science by completing specified
courses

Course approval forms to support these revisions are attached.

Our goal is to have these revisions approved for implementation with the
freshman class of 1990.

A representative of the College would gladly meet with your committee to
discuss these revisions.

CV:mos

Attachment

eliminated
education
requirements

**Elementary Teacher Education Program
Course Sequence (Example)**

FRESHMAN

Science	4	E 110 Critical Reading & Writing	3
M 251 Math/Elem. School I	3	M 252 Math/Elem. School II	3
EDS 147 Historical Foundations	3	Science	4
Social Science	3	Social Science	3
Fine Arts	<u>3</u>	EDS 202 Human Development	<u>3</u>
	16		16

SOPHOMORE

Science	4	EDS 258 Sociological Foundations	3
English or Communications	3	<u>*EDD 205 Children's Lit. or elective</u>	<u>3</u>
EDD 220 Intro. to Reading	3	Social Science	3
Discipline Area	3	Discipline Area	<u>6</u>
EDS 230 Intro. to Except. Child	<u>3</u>		
	16		15

Students must apply and be cleared for Upper Division Study prior to enrolling in the junior level methodology courses. For specific information about the criteria for clearance, see a counselor in 015 Willard Hall.

JUNIOR

Discipline Area	3	EDD 341 Curriculum:Natural Science	3
EDD 305 Curriculum:Lang. Arts	3	EDD 346 Curriculum:Social Science	3
EDD 320 Curriculum:Reading	3	EDD 335 Curriculum:Math	3
EDS 432 Curriculum:Except Child	3	EDS 390 Instructional Strategies	3
*EDS 431 Behavior Analysis or elective	3	<u>*EDD 322 Reading in Content Areas</u> or elective	<u>3</u>
*EDS 435 Ed. Eval/Except. Child or elective	<u>3</u>	EDS 461 Measurement Theory	<u>3</u>
	18		18

SENIOR

**EDD 400 Student Teaching	9-12	Discipline Area	6
Elective	6-3	EDS 340 Philosophical Foundations	3
		Fine Arts	3
		Elective	<u>3</u>
			15

TOTAL - 129

*Students seeking certification in general elementary education must complete EDD 205 and EDD 322; EDS 431 and EDS 435 must be completed for certification in special education.

**See a counselor in 015 Willard Hall for a listing of the prerequisites to Student Teaching (EDD 400)

All University students must complete three credits in an approved course or courses stressing multicultural, ethnic, and/or gender related content.

All courses listed under the General Studies and Professional Studies areas of this program must be completed with a grade of "C" or better.

REVISIONS TO THE ETE PROGRAM

The Department of Educational Development faculty are proposing several revisions to the Elementary Teacher Education (ETE) program. Our requests for modifications in the program are consistent with the various major reports (e.g. Carnegie, Holmes) on and initiatives (Project 30) in teacher education. Our primary goal is to increase the knowledge base elementary teachers bring to the classroom.

1. Our first proposal is to reduce the number of credits required in Education and to increase the number of credits required in Arts and Sciences. Two courses currently required which we propose be eliminated as requirements for all ETE students are:

- . EDD 205 Children's Literature, and
- . EDD 322 Reading in the Content Areas.

This is NOT to suggest we no longer view this content as important for future teachers. We have carefully analyzed our literacy curriculum and have attempted to integrate much of this content into the courses Elementary School Curriculum: Language Arts and Elementary School Curriculum: Reading.

2. A related second proposal is to increase the number of credit hours required in English from six to twelve credits. Currently students are required to complete E 110 and one additional course in English or Communications of their choice. We are recommending three specific areas with limited course selections within each area and an elective course selected with an advisor's assistance. The recommended areas and course selections are:

- . E 110 Critical Reading and Writing

One of the following literature courses:

- . E 207 Introduction to Poetry
- . E 208 Introduction to Drama
- . E 209 Introduction to the Novel
- . E 210 Short Story

One of the following critical thinking courses:

- . E 368 Science and Culture Studies (also listed under CSC)
- . E 300 Introduction to Literary and Cultural Studies
- . PHL 105 Clear Thinking

One course in such areas as composition, linguistics, literature, communications--selected with an advisor's approval

These courses were selected in consultation with Dr. Mark Amsler, Associate Chair of the English Department.

3. Thirdly, because of our goal to increase the content knowledge of ETE candidates in those areas they will be teaching, we are recommending a revision in the areas acceptable for discipline areas. (Discipline areas are eighteen credit hours selected by candidates, nine of which must be at the 300 or 400 level.) Currently candidates may select a discipline area from any unit on

campus. We recommend candidates must select a discipline area from the following list:

English, or
General Science, or
Mathematics, or
Social Science, or
Language Studies.

In addition, specific courses have been identified as acceptable within each discipline area. These courses have been selected in consultation with our colleagues in the appropriate departments in the College of Arts and Sciences. (Please see attachments for the specific required courses in each area.) When it is not possible for a candidate to complete one of the above discipline areas, the College Undergraduate Studies Committee will consider approving a minor in an area taught in the elementary or middle school.

4. A fourth revision relates to further developing ETE competence in areas they might teach. Students could elect to earn additional endorsements or certifications through the completion of specific discipline areas, or specific courses, and appropriate practicum experiences. Additional endorsements could be earned in:

- . English through completion of the English discipline area, EDD 422 Literacy in the Content Areas, and a student teaching placement in a middle school English classroom. (Endorsement: English, middle school)
- . General Science through the completion of the general science discipline area, three additional science credits, a course in teaching science in middle school, and a student teaching placement in a middle school science classroom. (Endorsement: General Science, middle school)
- . Kindergarten through completion of IFS 221 Child Development, IFS 222 Preschool Curriculum I: Materials, IFS 224 Preschool Curriculum, IFS 340 Preschool Curriculum II: Organization and a student teaching placement in a kindergarten (These students must select their discipline area from the available five areas. These credits, 10 credits without the student teaching credits, will be elective credits.) (Certification: Kindergarten)
- . Language Studies through completion of the specified courses in the language studies discipline area and an appropriate student teaching placement with bilingual students (Certification: Bilingual)
- . Mathematics through completion of the mathematics discipline area, a teaching mathematics in the middle schools course, and an appropriate student teaching experience in a middle school mathematics classroom (Endorsement: Mathematics, middle school)
- . Special Education through completion of EDS 435 Educational Evaluation for Exceptional Children, EDS 431 Applied Behavior Analysis, and a student teaching experience with handicapped children. Like the kindergarten certification, these students would

elect one of the five approved discipline areas. The credits required for certification would be in addition to the discipline area credits. (Certification: Special Education, Grades 1-12.)

When middle school certifications become available in Delaware, the endorsements would result in certification in the discipline area and we will recommend the typical ETE certification be grades 1-6.

Discipline Area Requirements: English (18 hours) with possible endorsement in middle school English*

One of the following language courses:

- L 101 Introduction to Linguistics*
- E 390 Introduction to the English Language
- E 494 History of the English Language*
- L 477 The Structure of English

One of the following literature courses:

- EDD 205 Children's Literature
- EDD 403 Literature for Adolescents*

One of the following multicultural courses:

- E 314 Introduction to Folklore and Folklife
- E 344 Black American Literature I
- E 345 Black American Literature II
- E 382 Studies in Multicultural Literature in English

One course in composition

The remaining 6 hours are to be determined by the student and his/her advisor. (At least 9 of the 18 hours above should be taken at the level of 300 or above.)

*Candidates seeking middle school English endorsement must take L 101; E 494; an American literature course; a course in journalism, dramatics, forensics (debating), radio, television or film study; EDD 403; EDD 422 (formerly EDD 322); a composition course, a multicultural literature course, and complete a student teaching placement in a middle school English classroom.

To complete this endorsement area, candidates will be required to select from the identified required areas to fulfill three of their general elective credits and all the elective credits in the General Education English and the discipline areas.

NOTE: All ETE candidates will complete three additional courses (EDD 220, EDD 320, and EDD 305) in the literacy area.

Discipline Area Requirements: Interdisciplinary Science (18 credits) with possible endorsement in middle school general science.*

Candidates can elect one of two options:

- A. 4 credit hours biology, 8 credit hours physical science, 3 credit hours earth science, 3 credit hours environmental science, or
- B. 8 credit hours biology, 4 credit hours physical science, 3 credit hours earth science, 3 credit hours environmental science.

Academic department heads have been consulted to construct the following list of recommended courses:

Biology

- B 107 Elementary Evolutionary Ecology and
- B 117 Elementary Evolutionary Ecology Laboratory

or

- B 208 Introductory Biology II

- B 105 Human Heredity and Development
- B 115 Human Heredity and Development Laboratory
- B 106 Elementary Human Physiology
- B 116 Elementary Human Physiology Laboratory
- ENT 205 Elements of Entomology
- PLS 101 Botany

Other biology courses may be accepted. However, at least two of these courses should be laboratory courses.

Physical Sciences

- PS 101 Introduction to Physics

or

- PS 201 General Physics

or

- PS 207 General Physics

- PS 133 Introduction to Astronomy

or

- PS 134 Introduction to Astronomy

or

- PS 144 Concepts of the Universe, and
- PS 139 Star and Constellation Identification
- PS 145 Quasars, Black Holes and the Universe

- C 101 General Chemistry

or

- C 103 General Chemistry

or

- C 105 General Chemistry

or

- C 111 General Chemistry, and
- C 119 Quantitative Chemistry I
- C 102 General Chemistry

or
C 104 General Chemistry
or
C 106 General Chemistry
or
C 112 General Chemistry

Other physical science courses may be accepted. However, at least 2 of these courses should be laboratory courses.

Earth Science

GEO 105 General Geology
or
GEO 107 General Geology I

GEO 106 General Geology
or
GEO 108 General Geology II

G 152 Climate and life
G 206 Physical Geography: Topography - Soils
CMS 200 Introduction to Oceanography
G 220 Meteorology

Students must take at least 4 of these 7 hours from the geology department. Students may take 200 level geology courses for majors to fulfill the requirements in earth science.

Environmental Science

C 100 Chemistry and the Human Environment
B 107 Elementary Evolutionary Ecology
G 230 Humans and the Earth Ecosystem
G 235 Conservation of Natural Resources
G 236 Conservation: Global Issues
ENT 201 Wildlife Conservation and Ecology
EDD 643 Environmental Education
G 320 Water and Society

*Candidates seeking middle school general science endorsement will follow Option A or B and will need to complete one additional biology or physical science course as three or four of their general elective credits, a course in teaching science at the middle school level, and a student teaching placement in a middle school science classroom.

Note: All ETE candidates will complete 12 credit hours (GEO 113, SC 101 or 102, and B 103 and 113 or 207) in the General Education - Science area.

Mission of the Art Conservation Program/Department

The mission of the Art Conservation Program is:

1. To educate and train art conservators, conservation scientists, and researchers in the field of preservation of cultural property on three levels (an undergraduate preparatory major, a magisterial and, beginning September, 1990, a doctoral program)
2. To provide a scholarly environment to nurture research in fields related to the conservation of cultural property.
3. To encourage advancement of the profession through publications, consultation, lectures, service to professional organizations, and public education by both faculty and students.

Proposal to
convert the
Art Conservation Program
to the
Art Conservation Department
at the
University of Delaware

The Art Conservation Program at the University of Delaware has been in existence since 1974. It has under its aegis:

- 1) An undergraduate major (A B.A. degree program in the Technology of Artistic and Historic Objects which began in 1971 as an interdepartmental major and has graduated about 25 majors), and
- 2) A three-year Master's Degree program in art conservation sponsored jointly with the Winterthur Museum which will have awarded 122 M.S. degrees by September, 1989.

Beginning in September, 1990:

- 3) A new Ph.D. program in art conservation research will accept its first students.

Conversion to departmental status will provide a more integral relationship to other departments through the faculty senates, faculty committees etc., and will allow the Art Conservation faculty to draw up departmental policies on promotion and tenure to allow faculty to be tenured within the discipline of art conservation. (It is understood that with the exception of the Black Studies Program, a program is not allowed to grant tenure.) It seems inappropriate that full-time professors in conservation

science and conservation practice should be required to have their tenure reside in the chemistry, art history or anthropology departments which have different missions and objectives.

Faculty

In September, 1989, Art Conservation will have five full-time University faculty positions, 14 adjunct faculty at Winterthur Museum, and 4 regularly-scheduled guest instructors:

University faculty:

Hilton Brown, Professor of Art, Art History, and Art Conservation, Advisor for the TAH undergraduate major, artist and art technologist, M.F.A. (Art Institute of Chicago)

Debra Hess Norris, Assistant Director, Assistant Professor, and Conservator of Photographs, M.S. (Delaware)

Chandra Reedy, Assistant Professor, and Conservation Scientist, Ph.D., (UCLA)

Joyce Hill Stoner, Director of Art Conservation, Associate Professor, and Conservator of Paintings, M.A. (New York)

Richard Wolbers, Associate Professor, and Conservator of Paintings, M.F.A. (UCSD), M.S. (Delaware)

Adjunct faculty at Winterthur:

Mark Anderson, Associate Furniture Conservator, B.A. (Maryland)

Kory Berrett, Objects Conservator, B.A. (Utah)

Janice Carlson, Museum Scientist, M.S. (Michigan)

Herb Crossan, Museum Photographer

Claudia Deschu, Assistant Objects Conservator, M.S. (Delaware)

Margaret Fikioris, Textile Conservator, M.A. (Columbia)

Don Heller, Objects Conservator

Charles Hummel, Deputy Director for Collections and Adjunct Associate

Professor of Early American Culture Program, M.A. (Delaware)

John Krill, Paper Conservator, M.A. (Pennsylvania State Univ.), advanced training, New York Univ.

Gregory Landrey, Furniture Conservator, B.A. (Gettysburg)

Debora Mayer, Associate Paper Conservator, M.S. (Delaware)

Michael Podmaniczky, Associate Furniture Conservator, B.A. (Kenyon)

George Reilly, Head, Science Research Section, Ph.D. (Massachusetts)

Wendy Samet, Associate Paintings Conservator, M.S. (Delaware)

Regular guest lecturers:

Thomas Brill, Professor of Chemistry, Ph.D. (Minnesota)

Vicki Cassman, Textile Conservator, M.S. (Delaware)

Melanie Gifford, Microscopist and Painting Conservator, M.A. (Cooperstown),
M.A. (Clark Art Institute)

P. Andrew Lins, Metallurgist and Objects Conservator, M.A. (NYU), M.S. (London Polytechnical)

The Art Conservation Program is one of only three graduate fine art conservation programs in the U.S. The Master's Degree program is the only program sponsored jointly by a university and a museum, and the only program with a major in photographic materials, and it has the most extensive staff and facilities. We are currently the only program in the country to offer an undergraduate preparatory major in art conservation. We have recently received and nearly completed the match for a \$500,000 challenge endowment

grant from the J. Paul Getty Trust and another \$500,000 from the Andrew W. Mellon Foundation. The top ten candidates accepted regularly turn down other choices to attend the Delaware program. Yet we are the only program in the U.S. which cannot grant tenure within its own department.

The mission statement for the Art Conservation Program is attached. We would like to take the appropriate steps beginning in September, 1989 through the Dean's office and the faculty senate to see if approval for the change to departmental status could be secured, perhaps by September of 1990.



DEPARTMENT OF ART
NEWARK, DELAWARE 19716

(302) 451-2244

May 10, 1989

M E M O R A N D U M

TO: College of Arts and Science
Academic Affairs Committee

FROM: Larry Holmes *LH*
Chair, Department of Art

RE: Disestablishment of the Art Education Program

First, a bit of history. In the 1970's when the art education program was in full force, we had two full time faculty assigned to this area; one who specialized in elementary, and the other, secondary level art education.

As a result of an art education faculty resignation and sharply declining enrollment in the 80's, the program was curtailed. This faculty line was re-assigned to the visual communications area in the department where demand was high and the quality of the program called for expansion. The remaining faculty member maintained the art education program until it was no longer feasible — because of extremely low enrollment — and the department voted to put the program on a moratorium.

During the moratorium we have not found a significant increase in interest in the program to warrant re-introduction and the remaining faculty member has been integrated in other areas of the department where there was a real need.

As we have tried over the years in the various "PLAN" statements to prioritize, it has become clear that we want to focus our attention on areas of strength. Our strengths are in our professional undergraduate and graduate degree programs.

If we were to re-introduce the art education program we would need to hire a specialist in elementary education; this is where the demand will initially occur. The department believes that since our focus is on our professional art programs, hiring faculty to augment these programs would be our highest priority.

In terms of meeting the need for preparing people to teach art, it is important to remember that there is a program at Delaware State College (currently with very low art ed enrollment), and there are programs in Philadelphia, Millersville, Baltimore, and Glassboro.

It is therefore, a combination of low enrollments, department priorities, and the availability of other art education programs that support dis-
establishment of the art education program.

SUGGESTED CURRICULUM	CREDITS*
Core	
Art courses	
Two courses of 3-D Study from two different areas selected from Sculpture, Ceramics, Fibers, or Metals.	6 ²
Two courses of 2-D Study from two different areas selected from Photography, Painting, Printmaking, Drawing or Illustration.	6
ART Studio Major	18 ¹⁻⁴
ART Studio Minor	9 ¹⁻⁴
Art Department Electives	9 ¹⁻⁴
B.F.A. Senior Exhibition	0 ⁴
Within the College	
Art History courses	12 ¹⁻⁴
ELECTIVES	
<i>Electives</i>	
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.	
CREDITS TO TOTAL A MINIMUM OF	126

**DEGREE: BACHELOR OF SCIENCE
MAJOR: ART EDUCATION**

SUGGESTED CURRICULUM	CREDITS*
UNIVERSITY REQUIREMENTS	
E 110 Critical Reading and Writing	3 ¹
Three credits in an approved course or courses stressing multicultural, ethnic, and/or gender-related content. [†]	3 ¹⁻⁴
MAJOR REQUIREMENTS	
Within the Department	
ART 110 Foundation I Drawing	3 ¹⁻⁴
ART 111 Foundation I Design	3 ¹⁻⁴
ART 112 Foundation II Drawing	3 ¹⁻⁴
ART 113 Foundation II Design	3 ¹⁻⁴
ART 329 Art Experiences for Art Teachers	3 ¹⁻⁴
Introductory fibers course	3 ¹⁻⁴
Photography course	3 ¹⁻⁴
Ceramics course	3 ¹⁻⁴
Discipline (drawing, printmaking, painting, etc.)	9 ¹⁻⁴
Art course(s)	3-6 ¹⁻⁴
Art History course(s)	9 ¹⁻⁴
Within the College	
Skill Requirements	
<i>Writing:</i> A writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken in a student's junior or senior year. Appropriate writing courses are normally designated in the semester's Registration Booklet.	3 ¹⁻⁴
<i>Mathematics:</i>	
M 114 Elementary Mathematics and Statistics (designed for students who do not intend to continue the study of mathematics)	3 ¹
or	

SUGGESTED CURRICULUM	CREDITS*
M 115 Pre-Calculus (designed for students who intend to continue the study of mathematics)	3
or	
One of the following:	
M 221 Calculus I	3
M 241 Analytic Geometry and Calculus A	4
or	
Successful performance on the college proficiency exam.	
Breadth Requirements† (See page 44)	
<i>Group A.</i> Understanding and appreciation of the creative arts and humanities. Twelve credits representing at least two areas.	12 ¹⁻⁴
<i>Group B.</i> The study of culture and institutions over time. Twelve credits representing at least two areas.	12 ¹⁻⁴
<i>Group C.</i> Empirically based study of human beings and their environment. Twelve credits representing at least two areas.	12 ¹⁻⁴
<i>Group D.</i> The study of natural phenomena through experiment and analysis. A minimum of thirteen credits representing at least two areas and including a minimum of one course with an associated laboratory.	13 ¹⁻⁴
Professional Studies	
EDS 201 Education and Society	3 ¹⁻⁴
EDS 301 Psychological Foundations of Education	3 ¹⁻⁴
EDS 302 Educational Psychology	3 ¹⁻⁴
ARE 330 Art Education II	3 ¹⁻⁴
ARE 390 Art Education III	3 ¹⁻⁴
EDD 400 Student Teaching	6-9 ¹

ELECTIVES

Electives
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.

CREDITS TO TOTAL A MINIMUM OF 127

REQUIREMENTS FOR A MINOR IN ART

Students must obtain written permission from the chair before declaring the minor. Admitted students will be assigned an adviser, generally in the area of study. Eighteen credits are required, distributed as follows:

- Three studio art courses at the 100-200 level from one or two areas. 9 credits
- Two studio art courses at the 300-400 level from one or two areas. 6 credits
- One related nonstudio art, art education, art history or art criticism course. 3 credits

* Superior figures indicate year or years in which the course is normally taken, i.e., ¹ freshman year, ² sophomore year, etc.

† This requirement may be fulfilled through a course taken to complete major, group, breadth, or elective requirements. See page 19.

‡ A course may be applied toward both the major requirement and a breadth requirement, but credits are counted only once toward the total credits for graduation.

UNIVERSITY OF DELAWARE INTER-DEPARTMENTAL

Memorandum



DATE: January 22, 1990

TO: Jeffrey Davidson, Sociology
Chairperson, Educational Affairs Committee
Arts & Science

FROM: Robert F. Brown, Acting Director *Robert F. Brown*
University Honors Program

SUBJECT: Proposed New Honors Degrees

Your committee has before it, or soon will have before it, proposals for two new Honors Degree tracks -- one a B.A. in International Relations, the other a B.S. in Biochemistry. In each case the relevant department (Political Science; Chemistry and Biochemistry) has consulted with us. These proposals have the full support of the University Honors Program. If you require any further information from us, we will be happy to provide it.

pj

c: Bill McNabb/UHP . .
James Oliver/Political Science
John Burmeister/Chemistry & Biochemistry



University of Delaware


DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY
OFFICE OF THE ASSOCIATE CHAIRMAN
102 BROWN LABORATORY
NEWARK, DELAWARE 19716

(302) 451-1130

December 22, 1989

M E M O R A N D U M

TO: Jeffrey Davidson, Chair
Educational Affairs Committee
c/o Ms. Cindy Waksmonski
College of Arts and Science

FROM: John L. Burmeister 
Associate Chairman

SUBJECT: B.S. Honors Degree in Biochemistry

Approval of the above degree, which has been unanimously endorsed by our faculty, is hereby requested. The attached set of requirements for the B.S. Honors Degree in Biochemistry is shown in combination with those for our existing B.S. Honors Degree in Chemistry, since the two sets of requirements are identical, except for the third sentence in section 2(c).

JLB/mm

Attachments (2)

cc: Chemistry/Biochemistry Faculty
ACS Student Affiliate
Mr. Richard Carter
Mr. Bartholomew Bono
Ms. Bettina Dell'Orfano

HONORS DEGREE/CHEMISTRY OR BIOCHEMISTRY
B.S.

1. The candidate must satisfy the requirements for the degree of Bachelor of Science in Chemistry or Biochemistry as indicated in the appropriate undergraduate catalog.
2. The candidate must satisfy the following requirements for the Honors Degree:
 - a) The candidate's cumulative grade index must be at least 3.4 overall and at least 3.3 in the major at the time of graduation.
 - b) The candidate must complete at least thirty credit hours of honors courses, taken both within and outside the major department.
 - (i) At least twelve credit hours of honors courses must be earned at the 300-level or above.
 - (ii) At least twelve credit hours of honors courses must be earned in elective courses which are not required for the major.
 - (iii) At least twelve credit hours of honors courses must be earned in chemistry. Courses at the 600-level or higher in chemistry in excess of the 600-level courses required for the B.S. degree may be considered as honors courses. One 3 or 4 credit required course in a related technical area may be considered as part of these twelve credits, if taken at the honors level.
 - (iv) The candidate must complete six credit hours in Honors Tutorials, including three credit hours designated as "humanities" and three credit hours designated as "natural and social sciences." These honors tutorial credits may be counted as part of the twelve credit hours referred to in section (ii).
 - (v) The candidate must complete six credits of Honors Theses (U 401-80 and U 402-80) and give an oral presentation and defense of the thesis to a committee of faculty from the major department and the University Honors Program.
 - (c) The candidate must pass a comprehensive written examination in chemistry. The examination will cover four of the five areas of chemistry: analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. One of the four areas covered must be biochemistry for candidates for the Honors Degree in Biochemistry. The examination will be administered during the senior year. It may consist of appropriate examinations prepared by the American Chemical Society. Alternatively, the candidate may fulfill this requirement by passing the Graduate Record Examination in Chemistry at or above the 80th national percentile level.

UNIVERSITY OF DELAWARE INTER-DEPARTMENTAL

Memorandum



DATE: January 22, 1990

TO: Jeffrey Davidson, Sociology
Chairperson, Educational Affairs Committee
Arts & Science

FROM: Robert F. Brown, Acting Director
University Honors Program *Robert F. Brown*

SUBJECT: Proposed New Honors Degrees

Your committee has before it, or soon will have before it, proposals for two new Honors Degree tracks -- one a B.A. in International Relations, the other a B.S. in Biochemistry. In each case the relevant department (Political Science; Chemistry and Biochemistry) has consulted with us. These proposals have the full support of the University Honors Program. If you require any further information from us, we will be happy to provide it.

pj

c: Bill McNabb/UHP
James Oliver/Political Science
John Burmeister/Chemistry & Biochemistry

Memorandum



DATE:

25 January 1990

TO: Professor Jeffrey Davidson, Sociology
Chairperson, Educational Affairs Committee
College of Arts and Science

FROM: James K. Oliver, Director
International Relations Program *J. K. Oliver*

SUBJECT: Proposed New Honors Degree in International Relations

I have attached the requirements for a proposed new honors degree in international relations. These requirements have been developed in consultation with Professors Burnaby Munson and Robert Brown of the Honors Program as well as the International Relations Advisory Committee comprised of representatives of those departments participating in the International Relations (IR) program: Anthropology, Economics, Geography, History, Political Science, and Sociology.

The program will require no new courses to be created and could be administered without any additional faculty. Indeed, all of the courses anticipated in the curriculum are currently taught as honors courses every year and will continue to be offered in the future. It should be noted, however, that the demand for IR as a major on the part of honors students has become so great over the last few years that the Honors Program and the Department of Political Science will be working this year to fill with an IR specialist, a newly authorized faculty position in the Honors Program. In short, the Honors and IR programs will have an adequate resource base to offer and administer the degree.

The demand for the degree on the part of Honors students has paralleled the surge of interest in the major nationally and at the University of Delaware. There are now some 275-300 IR majors at the University -- up from fewer than 100 six years ago. Professor Burnaby Munson has compiled data showing that for the last three years, 25-35 of the students admitted into the Honors program indicated that IR was their preferred major. Of those actually enrolling, 8-10 students/year indicate IR as their preferred major. There are now at least nine students who seem to be likely candidates for the IR Honors degree proposed here. Of course, few students actually complete an Honors degree in any major. The maximum degree in any year thus far has been three. The Honors Program has found, however, that the existence of the degree program



encourages students to try to enrich their curricula and educational experience, even if they don't complete all of the degree requirements. Given the interest in the degree expressed by students at this time, however, we will not be surprised to see a number of these students complete the IR degree.

If I may be of further assistance or you require additional information on the proposal, please do not hesitate to contact me.

JKO:nd

Enclosure

CC - Dean Helen Gouldner
Professor James Soles, Department of Political Science
Professor Robert Brown, University Honors Program
Professor William McNabb, University Honors Program

HONORS DEGREE IN INTERNATIONAL RELATIONS

A candidate for the Honors Bachelor of Arts Degree in International Relations must fulfill all of the requirements for the major in International Relations.

[As of 10/89, these are 51 credits from the approved International Relations curriculum course list in the departments of Political Science (PSC 240 + 12 credits), Economics (EC 151, 152, 340 + 3 additional credits), Anthropology (6 credits), History (6 credits), Sociology (SOC 201 + 3 credits), Geography (3 credits) and 3 additional credits from the approved International Relations course list.]

In addition the candidate must meet the following requirements:

- A. The candidate's University of Delaware cumulative grade point index must be at least 3.4 at the time of graduation.
- B. At least sixty (60) of the total credits accumulated for graduation must be at the 300 level or above.
- C. The candidate must complete at least thirty (30) credit hours of designated Honors courses meeting the following qualifications:
 1. at least twelve (12) Honors credits must be earned in courses approved for the International Relations major and in at least three (3) different departments represented in the International Relations Program;
 2. six (6) Honors credits must be earned in the Honors Tutorials: U 490 Humanities (3 credits) and U 491 Natural/Social Sciences (3 credits);
 3. at least six (6) Honors credits must be earned in courses outside the areas defined in C-1 and C-2 above;
 4. at least twelve (12) Honors credits must be earned at the 300 level or higher in any combination of C-1, C-2, or C-3.
- D. In addition to the 30 credits of Honors courses in C, the candidate must complete six (6) credits of an Honors thesis or project (U 401-80 and U 402-80) and give an oral presentation and defense of the thesis or project to a committee approved by the International Relations Program and the Honors Program. The thesis or project shall exhibit creativity, synthesis, independent thinking, and judgment. The six credits of

senior thesis may count toward the 51 credits required for the International Relations major.

- E. During the senior year, the candidate must pass a comprehensive written examination in International Relations designed to integrate the material contained in the candidate's program, administered by the Director of the International Relations Program and the International Relations Advisory Committee.

Memorandum



7 February 1990

To: Professor Jeffrey Davidson
Chair, Educational Affairs Committee

From: Mary Donaldson-Evans *Mary Donaldson-Evans*
Associate Chair
Department of Foreign Languages & Literatures

Subject: Curricular Changes

The changes in our Foreign Language Education curricula were made with the explicit goal of achieving more uniformity among the languages, and thus a more coherent program.

All of the new FLE majors now require 30 credits in the content area, as well as 6 professional courses, three of them content-specific (we have withdrawn FLL 423 as a requirement for this program). To the extent possible, all the FLE curricula include courses in reading and composition, culture, advanced language, and literature. Finally, we have tried to build some flexibility into the French, German, and Spanish programs so that students who elect to spend a semester abroad with the University of Delaware programs will not be disadvantaged.

The Russian Studies major and the Russian Education major underwent the most extensive changes. Since September, 1989, the Russian Program at the University has been staffed by two new faculty members, Associate Professor Susan Amert (PhD Yale 1983) and Assistant Professor Alexander Lehrmann (PhD Yale 1985) who have revamped the curriculum to make it competitive with national and international standards as well as to bring it up to the level of the French, Spanish and German programs. To this end, certain courses have been added to the curriculum, certain courses have been deleted, and others modified. In accordance with these changes in the Russian curriculum, the requirements for both the Russian Studies major and the Russian Education major have been altered.

The German Education major was also modified substantially, and for similar reasons (in the past two years, there have been extensive curricular changes following the hiring of three new faculty members in German, Richard Zipser, Monika Shafi, and Willy Reimer).

Three- and four- languages majors

These have not been altered in any substantive way. We will continue to require 2 language courses for "Language Three" in the Three Languages Major, and two language courses for "Language Two," "Language Three," and "Language Four" in the Four Languages Major. The change in the credit designation (it previously read "6 credits" in each of the above cases, and will be altered to read "6-8 credits") is meant simply to reflect the fact that the Department of Foreign Languages and Literature is phasing out the 3-credit foreign language courses at the 100-level in favor of 4-credit courses. Hence, for students entering the program without previous FL experience, "two courses" will most likely mean 8 credits, whereas transfer students or students who have fulfilled this requirement with our (soon to be obsolete) 3-credit courses may have only 6 credits.

College: Arts and Science
Department: Foreign Languages & Literatures
Degree: Bachelor of Arts
Major: Classics Education (X)

Suggested Curriculum

Major Requirements

Within the Department

AS 360	Humanities Colloquium	3
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GR 101	Elementary Greek I	3
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GR 102	Elementary Greek II	3
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Twelve credits in Greek and Latin at or above the 100-level with six credits at or above the 300- level, and at least 3 credits in each language.	12
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FLL 316	Classical Mythology	3
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FLL 222	Topics: Classical Literature in translation	6
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Professional Studies

EDS 201	Education and Society	3
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EDS 304	Psychological Foundations of Education	3
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EDS 305	Educational Psychology	3
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LIN 421	Methods of Teaching Foreign Language	3
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LIN 422	Language Syllabus Design	3
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LIN 424	Second Language Testing	3
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EDD 400	Student Teaching	6-9
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UNIVERSITY OF DELAWARE INTER-DEPARTMENTAL

Memorandum



January 16, 1990

TO WHOM IT MAY CONCERN:

FROM: Jack L. Smith
Professor and Chair *Jack L. Smith*
Nutrition and Dietetics

RE: Proposed New Applied Nutrition Major

The Applied Nutrition curriculum provides much flexibility so that the student can develop a unique specialty area to complement the broad area of nutrition. It is designed also as the entry major for students who later are successful in their application to the "academic" dietetics program or to the coordinated dietetics program. The Nutritional Sciences major will not be affected by these changes. The need for the Applied Nutrition major became evident as students expressed interest in concentrations of study that related to nutrition. Many who were not intending to become registered dietitians were unable to schedule such emphases of study because of the lack of sufficient electives and flexibility in existing majors in the Department.

The core of the Applied Nutrition major is comparable in chemistry, biology, food science and core nutrition courses to the Dietetics and Nutritional Science Major of the Department. The only new course is the Senior Seminar. The uniqueness of Applied Nutrition is the option to develop an individualized area of interest. The student may utilize the Applied Nutrition major to prepare for a career in nutrition education for the public, for nutrition and fitness management or the focus in food service systems management. Combinations of double majors or double degrees become a more realistic possibility with the flexibility of the Applied Nutrition major than is true of existing departmental majors.

New resources will not be needed to support this major. The purpose of the major is twofold. First, the major will expand the opportunities available to students in the Department. Two of the three existing majors are directed toward graduates becoming Registered Dietitians through the American Dietetic Association. However, with the emphasis of nutrition in wellness and prevention of disease programs, there are many employment opportunities which utilize nutrition education along with related subject matter, such as corporate fitness programs, technical writing and communications. The ability to combine nutrition with emphases in other disciplines enhances our program and thrust. Secondly, the major will be used for matriculating students. Students who are not entering the nutritional science major will enter the Applied Nutrition major. Then after three or more semesters, they would apply

for admission into the Dietetic major or the Coordinated Undergraduate Program (which are paths to earn eligibility to take the examination to become a Registered Dietitian). This would permit more diverse student recruitment and opportunities to work with the individuals until they qualify for one of the other majors. It would decrease the possibility that a student would complete a degree but not be competitive in obtaining the supervised experience necessary to take the RD examination.

In summary, the new major would not require new resources because it would not bring a large influx of new students into the department. It simply is a method to provide more options for the students and to better utilize capacity in some of the required courses. The curriculum uses existing courses with the exception of a one credit Senior Seminar which is a new course.

If you have questions or comments, please call me.

JLS/pb

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: NUTRITION AND DIETETICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: APPLIED NUTRITION (AN)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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UNIVERSITY REQUIREMENTS

E 110 Critical Reading and Writing	3	X			
XX XXX *Three credits in an approved course or courses stressing multi-cultural, ethnic and/or gender related content.	3	X	X	X	X

MAJOR REQUIREMENTS

External to the College

Humanities

XX XXX Humanities courses Minimum of nine credits selected from: Art, Art History, Communication, English, Languages, Literature, Music, Philosophy, Theatre.	9		X	X	X
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Sciences

C 101 General Chemistry	4	X			
or					
C 103 General Chemistry	4				
C 102 General Chemistry	4	X			
C 104 General Chemistry	4				
C 213 Elementary Organic Chemistry	4		X		
C 214 Elementary Biochemistry	3		X		
C 216 Elementary Biochemistry Lab	1		X		
B 103 General Biology	3	X			
B 113 General Biology Lab	1	X			
or					
B 207 Introductory Biology I	4				
B 106 Elementary Human Physiology	3		X		
B 116 Elementary Human Anatomy and Physiology Lab	1		X		
or					
B 406 Human Physiology	3				
B 416 Human Anatomy & Physiology Lab	1				

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: NUTRITION AND DIETETICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: APPLIED NUTRITION (AN)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
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Social Sciences

EC XXX Economics Course	3	X			
PSY 201 General Psychology	3		X		
SOC XXX Sociology Course	3	X			
BU 309 Management and Organizational Behavior	3			X	
XX XXX Social Science course selected from: Cultural Anthropology, Black American Studies, Criminal Justice, Economics, Food and Resource Economics 120, Economic and Social Geography, History, Political Science, Psychology, Sociology, Individual and Family Studies 401.	3				

Other

M 114 Elementary Mathematics and Statistics	3	X			
or					
XX XXX Equivalent competency (math placement exam and free electives)					
FS 201 Food Principles	2	X			
FS 211 Food Principles Lab	1	X			
FS 305 Food Science	2		X		
FS 306 Food Science Lab	1		X		

Within the College

IFS XXX IFS Course	3	X	X		
TDC XXX TDC Course	3				
HR XXX HR Courses (IFS, ND, TDC, HR)	5			X	

Within the Department

A minimum grade of C must be achieved for credits to count toward the fulfillment of 32 credits in ND and FS a minimum grade of C in 200-level courses must be achieved to proceed to upper-level courses; only 300-level courses and a maximum of four credits of Special Problems/Independent Study (ND x66) may count toward the fulfillment of this requirement. Note: ND 150, ND 167 and ND 303 are not applicable to degree requirements.

COLLEGE: HUMAN RESOURCES
 DEPARTMENT: NUTRITION AND DIETETICS
 DEGREE: BACHELOR OF SCIENCE IN HUMAN RESOURCES
 MAJOR: APPLIED NUTRITION (AN)

<u>SUGGESTED CURRICULUM</u>	<u>CREDITS</u>	<u>TYPICAL FRESHMAN COMPLETES</u>	<u>TYPICAL SOPHOMORE COMPLETES</u>	<u>TYPICAL JUNIOR COMPLETES</u>	<u>TYPICAL SENIOR COMPLETES</u>
ND 103 Introduction to Nutrition Professions	1	X			
ND 200 Nutrition Concepts	3	X			
ND 400 Macronutrients	3			X	
ND 401 Micronutrients	3	X			
ND 404 Senior Seminar	1				X
ND 445 Nutrition Education	3				X
ND XXX ND CourseS	12				X

Electives

<u>Electives</u>	26			X	X
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May include Military Science, Music or Physical Education. (Only two credits of activity type Physical Education and four credits of Music organization credits may be counted toward the degree and four credits of 100- and 200-level courses in Military Science/Air Force.)

CREDITS TO TOTAL A MINIMUM OF 126

*This requirement may be fulfilled thru a course taken to complete major requirements, group requirements, breadth or elective requirements.

Memorandum



December 12, 1988

To: Raymond Wolters, Chair
History Department Undergraduate Studies Committee

From: Richard Zipser, Chair *Richard Zipser*
Department of Foreign Languages and Literatures

Re: ~~Major~~ Major -- History/Foreign Language

At its meeting on December 8, the Department of Foreign Languages and Literatures unanimously approved the five attached proposals for dual majors in History and Foreign Languages. The French faculty requested that French 312 (Contemporary France) be added to the History/French major (section II, A) as a third alternative civilization course. If the History Department accepts this minor addition, we can proceed to seek formal approval of the new curricula.

The Foreign Languages and Literatures faculty is extremely enthusiastic about this dual major and asked me to thank you and your colleagues on the Undergraduate Studies Committee for proposing that we cooperate in this way.

cc: Jack Ellis



~~MAJOR~~ MAJOR - HISTORY/CLASSICS

I. History

- A. Western Civilization (H101-H102) 6 credits
- B. Five 300-level courses, at least two 15 credits
of which must deal with countries
that use the chosen foreign language
- C. Senior seminar 3 credits

II. Classics

- A. Civilization 6 credits

Two classical civilization (or culture) courses: e.g.
FLL 202 (Biblical and Classical Literature)
and
FLL 316 (Mythology)

- B. Literature 12 credits

Either 12 credits of Latin at the 200-level or above
(with at least 3 hours at the 300-level or above),
or
Greek 213 and 214
and
6 credits of Latin at the 200-level or above.

~~MAJOR~~ MAJOR - HISTORY/FRENCH

I. History

- A. Western Civilization (H101-H102) 6 credits
- B. Five 300-level courses, at least two of which must deal with countries that use the chosen foreign language 15 credits
- C. Senior seminar 3 credits

II. French

- A. Civilization 3 credits
 - 1. French 310 (French Civilization)
or
 - 2. French 311 (French Civilization)
- B. Literature 6 credits
 - 1. French 301 (Introduction to French Literature: Prose) and
 - 2. French 302 (Introduction to French Literature: Poetry and Theatre)
- C. One 400-level literature course 3 credits
- D. Electives 6 credits
 - 3. Two courses at the 200-, 300-, or 400-level)

3. French 312 (Contemporary France)

~~MAJOR~~ MAJOR - HISTORY/GERMAN

I. History

- A. Western Civilization (H101-H102) 6 credits
- B. Five 300-level courses, at least two 15 credits
of which must deal with countries
that use the chosen foreign language
- C. Senior seminar 3 credits

II. German

- A. Civilization 3 credits
 - 1. German 325 (German Civilization and Culture)
- B. Literature 6 credits
 - 1. German 311 (Introduction to German Literature I)
and
 - 2. German 312 (Introduction to German Literature II)
- C. One 400-level literature course 3 credits
- D. Electives 6 credits
 - 1. Two courses at the 200-, 300-, or 400-level)