

UNIVERSITY FACULTY SENATE

SUMMARY OF AGENDA

October 4, 1993

- I. **ADOPTION OF THE AGENDA**
- II. **APPROVAL OF THE MINUTES:** September 13, 1993
- III. **REMARKS BY INTERIM UNIVERSITY PROVOST MURRAY and/or VICE PROVOST ANDERSEN**
- IV. **ANNOUNCEMENTS:** Senate President Scott  
**ANNOUNCEMENTS FOR CHALLENGE**
  1. Revision of the minor in Science, Technology, and Society
  2. Revision of the B.S. in Geology
  3. Change in title and modification of course requirements for the B.A. in Technology of Artistic and Historic Objects. New Title: B.A. in Art Conservation
- V. **OLD BUSINESS** - None
- VI. **NEW BUSINESS**
  - A. Recommendation for permanent approval of the graduate major in Physical Therapy leading to the Master of Physical Therapy degree
  - B. Introduction of new business






# University of Delaware

UNIVERSITY FACULTY SENATE  
219 MCDOWELL HALL  
NEWARK, DELAWARE 19716

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

September 23, 1993

TO: All Faculty Members

FROM: Thomas S. Angell, Vice President   
University Faculty Senate

SUBJECT: Regular Faculty Senate Meeting, October 4, 1993

In accordance with Section IV, paragraph 6 of the Constitution, the regular meeting of the University Faculty Senate will be held on Monday, October 4, 1993, in Room 110 Memorial Hall, as close to 4:00 p.m. as the Semi-Annual General Faculty Meeting will allow. We remind you that the General Faculty Meeting will be held before the Senate meeting. The President has agreed to open the General Faculty Meeting at 3:30 p.m. rather than at 3:45 p.m. as previously announced. This timing will allow a short break before the Senate convenes. The agenda will be as follows:

## AGENDA

- I. Adoption of the Agenda.
- II. Approval of the minutes of the Senate meeting of September 13, 1993.
- III. Remarks by Interim University Provost Murray and/or Vice Provost Andersen.
- IV. Announcements: Senate President Scott  
Announcements for Challenge
  1. Revision of the minor in Science, Technology, and Society (Attachment 1)
  2. Revision of the B.S. in Geology (Attachment 2)
  3. Change in title and modification of course requirements for the B.A. in Technology of Artistic and Historic Objects. New Title: B.A. in Art Conservation (Attachment 3)
- V. Old Business - None

VI. New Business

- A. Recommendation from the Committee on Graduate Studies (P. Hooper, Chairperson), with the concurrence of the Coordinating Committee on Education (J. McLaughlin, Chairperson), for permanent approval of the graduate major in Physical Therapy leading to the Master of Physical Therapy degree. (Attachment 4)

WHEREAS, the Master of Physical Therapy degree was provisionally approved on December 7, 1987, and

WHEREAS, at the end of the provisional period an external review team recommended that the Master of Physical Therapy be given permanent status, therefore be it

RESOLVED, that, effective immediately, the graduate major in Physical Therapy leading to the Master of Physical Therapy degree be granted permanent status.

- B. Such items as may come before the Senate. (No motion introduced under new business, except a motion to refer to committee, shall be acted upon until the next meeting of the Senate.)

TA/rg

Attachments: Committee Activities Report

1. Revision of the minor in Science, Technology, and Society
2. Revision of the B.S. in Geology
3. Change of title and modification of course requirements for the B.A. in Art Conservation
4. Master of Physical Therapy

# COMMITTEE ACTIVITIES REPORT

## Committees and Nominations, Cte. on (Frank B. Dilley)

1. Filling committee vacancies
2. Re-examining charges of standing committees (Library, Instructional Computing, Undergraduate Studies, Student and Faculty Honors)
3. Appointing ad hoc task forces (Greek Profiles, Smoke-Free Workplace)

## Education, Coordinating Committee on (John McLaughlin)

1. Discussing exam week
2. Discussing permanent status for AFROTC

## Graduate Studies, Cte. on (Paul Hooper)

1. New graduate program in Biomechanics and Movement Science
2. Ph.D. Program Policy Statement for Economics
3. Graduate Program Policy Statement and addition of concentrations on transcript for Physical Education
4. M.A. in Foreign Languages and Pedagogy
5. Revisions and addition of concentrations on transcript for M.B.A. Program
6. Requirements and standards for doctoral dissertations
7. Determining "in-state" tuition for graduate students
8. Library borrowing durations for graduate students
9. Third year funding for minority graduate students
10. Revised Graduate Program Policy Statement for Marine Studies
11. Changes in M.A. and Ph.D. Programs for Political Science and International Relations

## Undergraduate Studies, Cte. on (Michael Keefe)

1. Discussing permanent status for AFROTC
2. Discussing multicultural requirement
3. Discussing transcripts

/wc

**SCIENCE, TECHNOLOGY, AND SOCIETY** Dr. Rivers Singleton & Dr. Paul Durbin

Number of credits required: 16

January 27, 1993

- Courses required: -- CSCC 206 Introduction to Science, Technology, and Society (formerly CSCC/PHIL 326 Theories of Science)
- CSCC 356 Individual Studies in Science, Technology, and Society (1 credit)
  - 9 credits to include 3 credits from each of the areas listed below
  - 3 credits from any of the areas listed below

TO: Louis Arena, Chair  
Committee on Educational Affairs

FROM: Rivers Singleton, Jr., Director  
Center for Science and Culture

A minimum grade of "C-" is required in all courses.

**Additional requirements:** Non-science majors are also required to take a sequence of two courses in a single science—e.g. an introductory and an advanced biology course or a two semester course in chemistry. See the director of the Center for Science and Culture regarding the use of other sciences to fulfill this requirement.

The Center for Science and Culture is requesting that we change the requirements of the Science, Technology, and Society minor. The change would be to discontinue HIST 281 (American Technology) and be replaced by HIST 389 (also called American Technology).

I. History of Science or Technology <sup>337</sup>  
HIST 280, ~~281~~, 328, 383, 384, 385 (CSCC 385), 387, 388  
<sub>disc</sub>

cc: Kathleen Werrell, Provost Office  
Cindy Waksmonski, Arts & Science Dean's Office

II. Philosophy of Science/Technology  
CSCC/PHIL 207, 245, 250

III. Social and Cultural Dimensions of Science/Technology  
CHEM 100, GEOG 203, ANTH 222, CSCC/WOMS 233, WOMS 338,  
CSCC/CISC/SOCI 355, CSCC/ENGL 368

MOTION TO REVISE SUPPORTING SCIENCE REQUIREMENT  
FOR BACHELOR OF SCIENCE DEGREE IN GEOLOGY

Require B.S. Geology majors to take:

MATH 241	Analytical Geometry and Calculus A	4
CHEM 103	General Chemistry	4
CHEM 104	General Chemistry	4
PHYS 201	General Physics	4
		16 credits

Two of the following three courses:

MATH 242	Analytical Geometry and Calculus B	4
PHYS 202	General Physics	4
STAT 205	Statistical Methods	4
		8 credits

Two of the following three courses:

BISC207	Introductory Biology I	4
BISC 208	Introductory Biology II	4
Elective supporting science course	(see department chair for a list of approved courses)	3-4
		7-8 credits

**RATIONALE FOR REVISION OF SUPPORTING SCIENCE REQUIREMENT  
FOR BACHELOR OF SCIENCE DEGREE IN GEOLOGY**

We have revised our supporting science requirement for the B.S. degree in Geology in order that we can better ensure that our students are exposed to as many of the allied disciplines that encompass the science of geology as possible. Geology, by definition, employs the methods of other sciences, as well as those unique to geology, to investigate the nature, processes, and history of the earth. The disciplines that are most closely associated with geology include: biology, chemistry, physics, and mathematics (including statistics). In our current supporting science requirement only calculus, chemistry, and physics courses were required with the hope that students might choose courses from biology, statistics, or other related disciplines as electives. In practice our students exposure to biology and statistics, in particular, was limited. In order to ensure that our students would be exposed to biology and possibly statistics we have proposed the attached revision to our current requirement. In the revision the students are required to take a broader array of science courses including at least one biology course.

DATE: August 30, 1993

TO: Dr. Michael Keeffe  
Chair, Undergraduate Studies Committee

FROM: Dr. Billy P. Glass *Billy P. Glass*  
Chair, Department of Geology

SUBJECT: Supporting documentation for revision of supporting science requirement for Bachelor of Science degree in Geology

As per your suggestion of May, 1993, below is a rationale for the Department of Geology's proposed revision to the supporting science requirement for the B.S. degree in Geology. This revision has been approved by the Department and the College of Arts and Science Faculty Senate.

Current supporting science requirement

MATH 241	Analytical Geometry and Calculus A	4
MATH 242	Analytical Geometry and Calculus B	4
CHEM 103	General Chemistry	4
CHEM 104	General Chemistry	4
PHYS 201	General Physics	4
PHYS 202	General Physics	4
		24 credits

Eight credits from the departments: Physics, Chemistry, Biology, Mathematical Science, Statistics, Computer Science, Engineering, BISC 207, BISC 208, and STAT 205 are strongly encouraged (see departmental chair for a list of approved courses).

8 credits



ART CONSERVATION  
DEPARTMENT

303 Old College  
Newark, Delaware 19716-2515  
Ph: 302/831-2479  
Fax: 302/831-4330

B.A. TECHNOLOGY OF ARTISTIC  
AND HISTORIC OBJECTS  
M.S. ART CONSERVATION  
PH.D. ART CONSERVATION RESEARCH

DATE: September 8, 1993

MEMORANDUM

TO: Michael Keefe, Chair, University Senate Committee  
on Undergraduate Studies

FROM: *[Signature]* Hilton Brown, Coordinator, Undergraduate Major in  
Technology of Artistic and Historic Objects (TAH)

SUBJECT: Supplementary explanation for additional revisions  
and additions to the revised curriculum sent to  
Dean Richards on 11/25/92 and approved by the  
College of Arts and Science in April, 1993

As you requested for your committee's deliberations, what follows is a brief explanation for revisions and additions to our current outdated curriculum and name for the TAH undergraduate major. This is supplementary to the explanation sent to Dean Richards on 11/26/92. Thank you for picking up some of my errors in the revision sent to your committee from the College of Arts and Science. In addition to those errors you pointed out, there are now additional corrections and additions that must be made to that revision.

The current TAH undergraduate curriculum dates to 1980. The purpose for this major is to prepare students who wish to pursue graduate training in art conservation. A graduate degree is now virtually a requirement for employment in this field. This curriculum is not only very much out-of-date in terms of courses being required that no longer exist, it no longer precisely matches the requirements for admission to graduate training in art conservation. For example, many of the required courses listed as offered by the Department of Art History no longer exist and have been replaced with new numbers and titles. Furthermore, the Department of Art History has expanded its course offerings into non-western art traditions to reflect multicultural diversity. Moreover, this University and the College of Arts and Science has instituted breadth and multicultural requirements that did not exist in 1980 when this curriculum was originally designed and approved.

The additions and revisions to the 11/25/92 revised curriculum are as follows:

-2-

Major Requirements  
1. Within the Department--We have changed the number of required semester credits from 18 to 21 because we have added a new course ARTC 301 Care and Preservation of Cultural Property and have returned a current required course to this list that had been removed in error, ARTC 690 Studio in the Materials and Techniques in Printmaking.

2. Within the College--We listed 12 semester credits of required Art courses. This is an error. It should have been 9 semester credits required of Art courses.

3. Within the College--at your suggestion I have added the following additional underlined requirement: 18 credits, at least 12 credits at or above the 300 level, of Anthropology, Art History, Black American Studies, Museum Studies, and/or Textiles, Design and Consumer Economics courses from the following list....

4. Within the College--as you pointed out, there is confusion in our listing of the required semester credits of Chemistry Courses. After speaking with John Burmeister, I have simplified this listing as follows:  
19 or 20 semester credits of Chemistry Courses, Track A--20 semester credits; Track B--19 semester credits.

I hope that I have answered the questions your committee requires for its deliberations. Please call me if you need additional information.



\* NOTE: Revisions from previous document submitted to this committee are underlined.

ART CONSERVATION

A CURRICULUM LEADING TO AN INTERDISCIPLINARY B.A. DEGREE IN ART/ART HISTORY/CHEMISTRY CALLED ART CONSERVATION.  
FOR STUDENTS INTERESTED IN PURSUING A GRADUATE DEGREE IN THE CONSERVATION OF ART AND HISTORIC OBJECTS

SEPTEMBER 1993

(Students wishing to select this major should see Professor Hilton Brown, Coordinator. To make an appointment for advisement with Professor Brown, please see the secretary in Room 303, Old College.)

Artistic, cultural, historic, natural science, and technological objects are made of materials that are subject, as are all materials, to the processes of deterioration. These changes are both chemical and physical. The primary purpose of art conservation is to extend the life of our material heritage.

The art conservator is responsible for the care of objects. In order to do this job effectively, the conservator must combine the skills of the artist and craftsman, the archaeologist, the art and cultural historian, the chemist and the environmentalist. The purpose of the interdisciplinary Bachelor of Arts degree program in Art Conservation is to prepare students who wish to pursue graduate training in art conservation for such advanced pre-professional study. Working closely with departmental advisors, the student elects a program of coordinated courses in the Departments of Anthropology, Art, Art Conservation, Art History, Chemistry and Biochemistry, among several others. Since this University of Delaware is one of the three universities in this country with a master's program and the only one with a doctoral degree program in art conservation, students benefit from this unique opportunity to take special seminars and materials and techniques, to attend special seminars and lectures, and to include internships with the conservation staff at the Winterthur Museum, among other local conservation environments.

DEGREE: BACHELOR OF ARTS  
MAJOR: ART CONSERVATION  
UNIVERSITY AND COLLEGE OF ARTS AND SCIENCE REQUIREMENTS:

See pages 82-89 of the 1993-94 Undergraduate Catalogue

MAJOR REQUIREMENTS:  
Within the Department

- 21 semester credits of the following courses ..... 21
- ARTC 301 Care and Preservation of Cultural Properties 3
- ARTC 680 Studio in the Materials and Techniques of Drawing 3
- ARTC 685 Color Mixing and Matching 3
- ARTC 688 Studio in the Materials and Techniques of Painting I 3
- OR
- ARTC 689 Studio in the Materials and Techniques of Painting II 3
- ARTC 620 Studio in the Materials and Techniques of Printmaking I 3
- ARTC 466 Independent Study: Conservation Internship I & II 6  
(Junior and/or Senior status only)

Within the College

- ART 2 semester credits of the following Art courses..... 2
- ART 130 Drawing I: Tools and Techniques 3
- ART 244 Photography I 3
- ART 250 Sculpture 3
- OR
- ART 254 Ceramics I 3
- OR
- ART 260 Metals I 3
- OR
- ART 273 On Loom Weaving I 3
- 6 credits of Anthropology and/or Art History courses from the following list..... 6
- ANTH 103 Introduction to Prehistoric Archaeology 3
- ARTH 150 Monuments and Methods in the History of Art 3
- ARTH 151 Myth Religion and Art 3
- ARTH 153 Introduction to Art History I 3
- ARTH 154 Introduction to Art History II 3
- ARTH 155 Asian Art 3
- ARTH 161 Art in the East and West 3
- ARTH 162 Buildings, Builders, and the Human Environment 3

18 credits, at least 4 courses at or above the 300 level, of Anthropology, Art History, Black American Studies, Museum Studies, and/or Textiles, Design and Consumer Economics courses from the following list.....18

**Anthropology**

ANTH 222 Technology and Culture..... 3  
 ANTH 229 Indians of North America..... 3  
 ANTH 251 Introduction to Primitive Arts..... 3  
 ANTH 316 Introduction to Material Culture Studies..... 3  
 ANTH 324 Old World Archaeology..... 3  
 ANTH 338 Arts & Crafts: Native South America..... 3  
 ANTH 340 Historical Archaeology..... 3  
 ANTH 379 Historical Archaeology of the Eastern United States..... 3  
 ANTH 410 Archaeological Analysis of Material Culture..... 3  
 ANTH 451 Myth and Culture..... 3  
 ANTH 457 Survey of African Art..... 3

**Art History**

ARTH 207 Origins of Art..... 3  
 ARTH 208 Greek and Roman Art..... 3  
 ARTH 209 Early Medieval Art AD 200-1100..... 3  
 ARTH 210 Later Medieval Art AD 1000-1400..... 3  
 ARTH 213 Art of the Northern Renaissance..... 3  
 ARTH 217 Early Renaissance Art..... 3  
 ARTH 218 High Renaissance and Mannerist Art..... 3  
 ARTH 220 Architecture and Urbanism in Renaissance Italy..... 3  
 ARTH 222 Baroque Art..... 3  
 ARTH 223 Baroque and Rococo Architecture and Urbanism..... 3  
 ARTH 225 Rococo to Neo-Classicism..... 3  
 ARTH 227 Neo-Classicism and Impressionism..... 3  
 ARTH 228 Post-Impressionism to Contemporary Art..... 3  
 ARTH 230 American Art: 1607-1865..... 3  
 ARTH 231 American Art: 1865-present..... 3  
 ARTH 233 Art of China..... 3  
 ARTH 234 Art of Japan..... 3  
 ARTH 235 Art of India..... 3  
 ARTH 236 The Arts of Islam..... 3  
 ARTH 301 Research and Methodology in Art History..... 3  
 ARTH 302 Prints and Society..... 3  
 ARTH 308 Modern Architecture I: 1750-1900..... 3  
 ARTH 309 Modern Architecture II: The Twentieth Century..... 3  
 ARTH 310 The Role of the Artist in Society..... 3  
 ARTH 318 History of Photography..... 3  
 ARTH 339 Art & Architecture of Europe..... 3

**Black American Studies**

BAMS 320 History of Afro-American Art..... 3

**Museum Studies**

MSST 403 History, Philosophy, Functions & Future of Museums..... 3

**Textiles, Design and Consumer Economics**

TDCE 214 Costume History Before 1700..... 3  
 TDCE 224 Clothing Design and Production Since 1700..... 3

**Chemistry and Biochemistry**

19 or 20 semester credits of chemistry courses.....19 or 20

**Track A:**

CHEM 101 General Chemistry..... 4  
 CHEM 104 General Chemistry..... 4  
 CHEM 220 Quantitative Analysis..... 3  
 CHEM 221 Quantitative Analysis Laboratory..... 1  
 CHEM 321 Organic Chemistry..... 4  
 CHEM 322 Organic Chemistry..... 4  
 20

**Track B:**

CHEM 111 General Chemistry..... 3  
 CHEM 119 Quantitative Chemistry I..... 2  
 CHEM 112 General Chemistry..... 3  
 CHEM 120 Quantitative Chemistry II..... 3  
 CHEM 321 Organic Chemistry..... 4  
 CHEM 322 Organic Chemistry..... 4  
 19

**TOTAL MAJOR CREDIT HOURS.....73 OF 74**

PROGRAMS

RELIGIOUS STUDIES

The Religious Studies Minor is described as "Interdisciplinary" because it involves work in three or more different departments. The general requirements include 15 credits from a list of approved courses. These must include PHIL 204 (World Religions) and at least two courses at the 300 level or higher in any of the three departments listed. For enrollment forms, course substitutions or exemptions, or a list of the approved courses, contact Alan Fox, Department of Philosophy, 831-2350, or email at AFOX@BRAHMS.UDELE.EDU.

CURRENT

TECHNOLOGY OF ARTISTIC AND HISTORIC OBJECTS

Art and historic objects are made of materials subject, as are all materials, to the processes of deterioration. These changes are both chemical and physical. The primary purpose of art conservation is to extend the life of our material heritage.

The art conservator is responsible for the care of objects. In order to do this job effectively, he or she must combine the skills of the artist, the art historian, and the chemist. The purpose of this interdisciplinary Bachelor of Arts degree program in the Technology of Artistic and Historic Objects is to prepare students who wish to pursue graduate training in art conservation for such advanced preprofessional study. Working closely with the program coordinator, the student elects a program of coordinated courses in art history, chemistry, and studio art. Since the University of Delaware is one of a very few universities in this country with a graduate program in art conservation, students benefit from this unique opportunity to take special courses in art materials and techniques and to intern with the conservation staff at the Winterthur Museum or other nearby conservators.

DEGREE: BACHELOR OF ARTS  
MAJOR: TECHNOLOGY OF ARTISTIC AND HISTORIC OBJECTS  
CURRICULUM CREDITS\*

See page 82 for University and College requirements.

MAJOR REQUIREMENTS

Within the College

<i>Art and Art Conservation:</i>	
ART 244	Photography I ..... 3 <sup>1-4</sup>
One of the following four courses:	
ART 250	Sculpture I ..... 3 <sup>1-4</sup>
ART 254	Ceramics I ..... 3 <sup>1-4</sup>
ART 260	Metals I ..... 3 <sup>1-4</sup>

of  
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tor,

den, i.e., freshman year, sophomore year, etc.  
requirements

ART 273	On Loom Weaving I ..... 3 <sup>1-4</sup>
ARTC 680	Studio Materials and Techniques of Drawing in the West ..... 3
ARTC 685	Color Mixing and Matching ..... 3 <sup>1-4</sup>
ARTC 688	Studio Materials and Techniques of Painting I ..... 3
or	
ARTC 689	Studio Materials and Techniques of Painting II ..... 3 <sup>1-4</sup>
ARTC 690	Studio in the Materials and Techniques of Printmaking I ..... 3 <sup>1-4</sup>
ARTC 466	Conservation Internship at Winterthur ..... 6
<i>Art History</i>	
Twenty-four credits in Art History as follows: ..... 24 <sup>1-4</sup>	
ARTH 207	Origins of Art ..... 3
or	
ARTH 208	Greek and Roman Art ..... 3
ARTH 209	Early Medieval Art: A.D. 200-1000 ..... 3
or	
ARTH 210	Later Medieval Art: A.D. 1000-1400 ..... 3
ARTH 217	Early Renaissance Art ..... 3
or	
ARTH 218	High Renaissance and Mannerist Art ..... 3
ARTH 222	Baroque Art ..... 3
ARTH 230	American Art: 1607-1865 ..... 3
ARTH 231	American Art: 1865 to present ..... 3
or	
ARTH 155	Asian Art ..... 3
ARTH 227	Neoclassicism and Impressionism ..... 3
ARTH 228	Post-Impressionism to Contemporary Art ..... 3
ARTH 401	Literature, Theory and Methods of Art History ..... 3
<i>Chemistry</i>	
Twenty to twenty-three credits in Chemistry as follows: ..... 20-23 <sup>1-4</sup>	
CHEM 103	General Chemistry ..... 4
CHEM 104	General Chemistry ..... 4
or	
CHEM 111	General Chemistry ..... 3
CHEM 112	General Chemistry ..... 3
or	
CHEM 119	Quantitative Chemistry I ..... 2
CHEM 120	Quantitative Chemistry II ..... 3
CHEM 220	Quantitative Analysis ..... 3
CHEM 221	Quantitative Analysis Laboratory ..... 1
CHEM 321	Organic Chemistry ..... 4
CHEM 322	Organic Chemistry ..... 4
<b>ELECTIVES</b>	
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	

WOMEN'S STUDIES

The Women's Studies Interdisciplinary Program is designed to foster in students a knowledge of the rich heritage, challenges, and concerns of women. In addition

\*Superior figures indicate year or years in which the course is normally taken, i.e.  
†Only those sections which are cross-listed with Women's Studies.



COLLEGE OF ARTS AND SCIENCE

OFFICE OF THE DEAN

123 Memorial Hall  
University of Delaware  
Newark, Delaware 19716-2501  
Ph: 302/831-2351



OFFICE OF THE PROVOST

129 Halliburton Hall  
University of Delaware  
Newark, Delaware 19716-0101  
Ph: 302/831-2101  
Fax: 302/831-2030

RECEIVED  
UNIVERSITY OF DELAWARE

MAY 26 1993

September 10, 1993

May 25, 1993

FACULTY SENATE

MEMORANDUM TO: Senate Coordinating Committee on Education  
c/o Dr. John McLaughlin

FROM: Dr. Mary P. Richards  
Dean of Arts and Science

SUBJECT: Physical Therapy Program

MEMORANDUM

TO: Dr. Bonnie Scott, Chair  
Faculty Senate Coordinating Committee

FROM: R. Byron Pipes  
University Provost

SUBJECT: Permanent Approval for Physical Therapy Program

I am writing to endorse permanent approval for the Master's degree program in Physical Therapy in the College of Arts and Science. The faculty have demonstrated outstanding ability to mount a high quality program that offers a sound education to its students. There is an extraordinary demand for this program from students, and for its graduates from employers. It fulfills a need in the state and region while adding to the University's reputation in the science fields. I strongly endorse its permanent approval.

MPR/lc  
cc: Professor Paul Mettler  
Provost Murray

The graduate program in Physical Therapy has achieved national distinction for its outstanding program. The program has a strong curriculum, attracts very high quality students, and has an excellent faculty. It has my full support for permanent approval by the Faculty Senate.

RBP:lp  
cc: Dr. Paul Mettler  
Dean Mary Richards

RECEIVED  
UNIVERSITY OF DELAWARE

SEP 15 1993

FACULTY SENATE

**BISC 802 Cell and Genetic Systems 1 PF**

Critical evaluation of selected topics in cell and genetic systems through presentations given by researchers from both inside and outside the University community.  
RESTRICTIONS: Requires permission of instructor.

**BISC 808 Advances in Physiology 2**

Colloquium and special studies on a selected aspect of animal physiology.  
RESTRICTIONS: May be repeated for up to 10 credits when topics vary. Offered only in Spring.

**BISC 810 Advanced Endocrinology 2**

Selected topics pertaining to hormonal function.

**BISC 868 Research 1-12**

**BISC 869 Master's Thesis 1-6**

**BISC 969 Doctoral Dissertation 1-12 PF**

**UNIV 899 Master's Sustaining 0 PF**

**UNIV 999 Ph.D. Sustaining 0 PF**

**MASTER OF SCIENCE IN PHYSICAL THERAPY**

Telephone: (302) 831-8910

**FACULTY IN THE GRADUATE PROGRAM**

JOSEPH LUCCA, PH.D. (DELAWARE), *Associate Professor*: Health care delivery systems for the elderly.

PAUL METTLER, Ed.D. (NORTHEASTERN), *Associate Professor and Director*: Higher education administration.

STUART BINDER-MACLEOD, PH.D. (MEDICAL COLLEGE OF VIRGINIA), *Assistant Professor*: Electrical stimulation parameters on muscle performance.

IRENE MCCLAY, PH.D. (PENNSYLVANIA STATE), *Assistant Professor*: Biomechanical analysis of running injuries.

JOHN SCHOLZ, PH.D. (CONNECTICUT), *Assistant Professor*: Examination of motor control using motion analysis.

LYNN SNYDER-MACKLER, Sc.D. (BOSTON), *Assistant Professor*: Examination of rehabilitation protocols following ACL repair.

The School of Life and Health Sciences offers a Master of Physical Therapy (M.P.T.) degree. This is an entry-level degree which will qualify the graduate to sit for the physical therapy licensure examination in any state in the country. Admission to the M.P.T. program requires demonstrated academic excellence, evidence of physical therapy clinical experience, and the following (or equivalent): two years of biological sciences, including physiology and anatomy; one year of inorganic chemistry; calculus; one year of physics; one year of psychology; and one year of English. All course work must be completed prior to beginning the professional program.

The Physical Therapy Program is housed in McKinly Laboratory and has modern well-equipped laboratories for research and teaching. In addition, there is a physical therapy practice clinic which is staffed by students who are supervised by faculty members. All students are

required to register for the practice clinic at least once during the degree program. The program is accredited by the Commission on Accreditation in Physical Therapy Education.

**REQUIREMENTS FOR ADMISSION**

The minimum requirements for the MPT program are:

- a bachelor's degree from an accredited institution
- documented volunteer or paid clinical experience in physical therapy (200 hours)
- three letters of recommendation
- Graduate Record Examination Verbal and Quantitative scores
- if requested, an interview with the admissions committee

Application is made to the University's Office of Graduate Studies. In addition, a separate program application and three letters of recommendation from persons able to judge the applicant's ability to pursue physical therapy graduate study should be sent to the Physical Therapy Program Director, School of Life and Health Sciences. Two of these letters should be from licensed physical therapists who have observed the applicant in a clinical environment. Application deadline is February 1.

**REQUIREMENTS FOR THE DEGREE**

The M.P.T. program requires 69 hours of graduate course work. These hours are in such areas as didactic instruction, experiential laboratories, research, clinical internships, or other equivalent academic experiences. Clinical internships comprise 15 hours of the curriculum and occur at a variety of health care facilities located primarily on the east coast. The program is full-time and of two years duration, including summers. Part-time matriculation is not typically permitted. A thesis option is available for students interested in pursuing research.

**MASTER OF PHYSICAL THERAPY CURRICULUM**

GRADUATE YEAR I		CR
<b>Summer</b>		
PHYT 600	PT as a Profession.....1 (Second Summer Session)	
PHYT 622	Clinical Gross Anatomy.....6 (Second Summer Session)	
		7
<b>Fall</b>		
PHYT 801	Medical Science I.....2	
PHYT 601	Exercise Physiology.....3	
PHYT 602	Patient Management I.....3	
PHYT 603	Physical Agents.....2	
PHYT 677	Introduction to Evaluation Techniques.....1	
PHYT 606	Research.....3	
		14

<b>Winter</b>	
PHYT 605 Clinical Internship .....	3
<b>Spring</b>	
PHYT 604 Functional Anatomy.....	3
PHYT 623 Clinical Neuroscience .....	4
PHYT 607 Electrotherapy .....	3
PHYT 620 Educational Process in Community Health....	1
	11
<b>GRADUATE YEAR II</b>	<b>CR</b>
<b>Summer</b>	
PHYT 608 Musculoskeletal Evaluation .....	3
(First Summer Session)	
PHYT 802 Medical Science II .....	2
(First Summer Session)	
PHYT 605 Clinical Internship .....	3
(Second Summer Session)	
	8
<b>Fall</b>	
PHYT 609 Neurophysiologic Evaluation .....	3
PHYT 611 Clinical Management.....	1
PHYT 617 Patient Management II .....	3
PHYT 618 Life Span Development .....	3
PHYT 803 Medical Science II .....	2
	12
Optional Electives-Hours do not count towards total required hours for degree. Limited to one elective/term. (3)	
<b>Winter</b>	
PHYT 610 Psychosocial Aspects.....	2
PHYT 619 Advanced Seminar .....	2
	4
Optional Electives-Hours do not count towards total required hours for degree. Limited to one elective/term. (3)	
<b>Spring</b>	
PHYT 605 Clinical Internship .....	9
Note: PHYT 621 Practice Clinic (1 cr) must be taken at least once during the degree program.	
<b>Total Hours</b>	<b>69</b>

\*The curriculum is subject to modification as the program is implemented.

**COURSE DESCRIPTIONS - PHYSICAL THERAPY**

**PHYT 600 Physical Therapy as a Profession 1**  
An introduction to the ethics, licensure laws and practice of physical therapy.  
RESTRICTIONS: Open to MPT Program students only. Requires permission of instructor.

**PHYT 601 Exercise Physiology: Treatment and Research 3**  
Discusses research on the effects of exercise on various patient populations. Emphasis on muscle, bone and connective tissue remodeling. Examines cardiopulmonary rehabilitation, isokinetic and isotonic theories and research.  
RESTRICTIONS: Open to MPT Program students only.

**PHYT 602 Patient Management I 3**  
An introduction to the theory and skills necessary for the physical therapy management of patients commonly seen in primary care facilities.  
RESTRICTIONS: Open to MPT Program students only.

**PHYT 603 Physical Agents 2**  
Introduces the physics, physiology and clinical applications of various physical agents. Students incorporate this new knowledge into patient care problems.  
RESTRICTIONS: Open to MPT Program students only.

**PHYT 604 Functional Anatomy and Biomechanics 3**  
Gives a description of normal and abnormal human movement. Emphasis on surface anatomy and evaluation procedures such as EMG and cinematography.  
PREREQ: BISC 401 and PHYT 622.

**PHYT 605 Clinical Internship 1-9 PF**  
Full- or part-time clinical experiences at various health care facilities.  
RESTRICTIONS: Open to MPT Program students only with completion of prior professional coursework.

**PHYT 606 Research Methods 3**  
The research process will be studied. Among the topics covered are: scientific method, experimental design, statistical procedures and technical writing.  
RESTRICTIONS: Open to MPT Program students only.

**PHYT 607 Electrophysiological Treatments and Evaluation 3**  
Emphasis on the physiological basis for the electrotherapeutic and electrophysiological evaluative procedures practiced in the physical therapy clinic.  
RESTRICTIONS: Open to MPT Program students only.

**PHYT 608 Musculoskeletal Evaluation and Treatment 3**  
In depth analysis of evaluation and treatment strategies of spinal and extremity joints, muscles and connective tissue. Emphasizes research on the physiological basis of traction, mobilization and exercise.  
PREREQ: PHYT 604, PHYT 622 and PHYT 604.

**PHYT 609 Neurophysiological Evaluation and Treatment 3**  
In depth analysis of evaluation and treatment strategies of neurologically involved patients. Emphasizes research on the physiological basis of traction, mobilization and exercise.  
PREREQ: All first-year MPT courses.

**PHYT 610 Psychosocial Aspects of Disabilities 2**  
Discusses the psychosocial characteristics of patient populations and therapists that impact on the rehabilitative process. Time management, death and dying, sexuality, love and hate and other topics are discussed.  
PREREQ: All previous MPT courses.

**PHYT 611 Clinical Management Practices 1**  
Discusses concepts of administration and issues in the management of hospital clinics, private practice and consultative ventures.  
PREREQ: All first-year MPT courses.

**PHYT 612 Clinical Management Practicum 3**  
Full- or part-time practicum in a management setting. Advances skills in management.  
PREREQ: All previous MPT courses.

**PHYT 613 Advanced Orthopedics 3**  
Discusses various schools of orthopedic intervention.  
PREREQ: All previous MPT courses.

**PHYT 614 Sport Physical Therapy 3**  
Analyzes the various competencies required in the practice of sports physical therapy. Clinical skill acquired.  
PREREQ: All previous MPT courses.

**PHYT 615 Advanced Neurotherapeutics 3**  
Discusses an integration of the various neurodevelopmental approaches to the treatment of the neurological patient.  
PREREQ: All previous MPT courses.

**PHYT 616 Pediatrics Seminar 3 PF**  
Discusses selected problems encountered by the pediatric population. Studies the evaluation, treatment and research basis of these problems.

**PHYT 617 Patient Management II 3**  
Continuation of PHYT 602. Teaches the theory and skills necessary for the physical therapy management of patients commonly seen in rehabilitation settings.  
PREREQ: PHYT 602.  
RESTRICTIONS: Open to MPT Program students only.

## THE UNIVERSITY OF DELAWARE

**PHYT 618 Life Span Development 3**

A study of human development and aging from birth through death. Emphasis on motor, sensory and cognitive functions and dysfunction.

PREREQ: All first year MPT courses.

**PHYT 619 Advanced Seminar 2**

Lectures pursue various topics in greater depth and develop advanced clinical skills. Examples include burn and wound care, hand therapy, geriatrics and ob-gyn. Individualized clinical experiences may be arranged.

PREREQ: All previous MPT courses.

**PHYT 620 Educational Process in Community Health 1**

Focuses on the learning/teaching process for application to the teaching roles of the health professional.

RESTRICTIONS: Open to MPT Program students only.

**PHYT 621 Practice Clinic 1 PF**

Student participation in faculty practice clinic treating referrals for physical therapy. All students participate in the clinic at least one semester.

RESTRICTIONS: Open to MPT Program students only.

**PHYT 622 Clinical Gross Anatomy 6**

Emphasis on structural and functional aspects of regions of body under study by means of human cadaver, lectures and demonstrations. Stresses clinical significance of anatomical structure.

RESTRICTIONS: Open to first-year physical therapy graduate students only.

**PHYT 623 Clinical Neurosciences 4**

A study of the structure and function of the human nervous system with major emphasis on the cause-effect relationships between lesions and their symptoms. Emphasis on the neural mechanisms controlling movement.

PREREQ: PHYT 622.

**PHYT 801 Medical Science I 2**

Lectures in pathology, clinical medicine, cardiology and pharmacology.

RESTRICTIONS: Open to MPT Program students only.

**PHYT 802 Medical Science II 2**

Lectures in orthopedics, radiology and rheumatology.

PREREQ: All previous MPT courses.

**PHYT 803 Medical Science III 2**

Lectures in neurology, pediatrics, geriatrics and other medical specialties as required.

PREREQ: All previous MPT courses.

**PHYT 868 Research 1-9**

PREREQ: All previous MPT courses.

RESTRICTIONS: Requires permission of instructor.

**PHYT 869 Master's Thesis 1-6**

PREREQ: All previous MPT courses.

RESTRICTIONS: Requires permission of instructor.

**UNIV 899 Master's Sustaining 0 PF**

ROBERTA M. GOLINKOFF, PH.D. (CORNELL), *Professor; also Professor of Educational Studies, College of Education.*

ROGER J. STEINER, PH.D. (PENNSYLVANIA), *Professor; also Professor of Foreign Languages and Literatures.*

ALFRED R. WEDEL, PH.D. (PENNSYLVANIA), *Professor; also Professor of Foreign Languages and Literatures.*

LOUIS A. ARENA, PH.D. (GEORGETOWN), *Associate Professor; also Associate Professor of English.*

ANGELA LABARCA, PH.D. (OHIO STATE), *Associate Professor.*  
NANCY L. SCHWEDA-NICHOLSON, PH.D. (GEORGETOWN), *Associate Professor.*

IRENE B. VOGEL, PH.D. (STANFORD), *Associate Professor and Graduate Director*

THOMAS B. ERNST, PH.D. (INDIANA), *Assistant Professor.*

GABRIELLA HERMON, PH.D. (ILLINOIS), *Assistant Professor; also Assistant Professor of Educational studies.*

**REQUIREMENTS FOR ADMISSION (M.A., Ph.D. degrees)**

Students with a B.A./B.S. or M.A./M.S. in linguistics or in an appropriate field may apply. (Students without a degree in linguistics proper may be asked to take additional courses to meet minimum training in linguistics.) Applicants are required to submit a completed application, three letters of recommendation, GRE scores (a minimum of 1050 on verbal and math combined is normally required; the analytical score is also considered), and official transcripts of all previous work. Foreign students whose native language is not English must also submit scores on the TOEFL, on which a minimum of 550 is normally required. For these foreign students, the TOEFL score will be considered as the verbal section of the GRE when the TOEFL score is higher. In all cases, however, scores on all sections of the GRE must be submitted. Foreign students whose native language is not English and who are awarded a TA must meet the Graduate School requirement for performance on either the Speak Test or the Test of Spoken English (TSE). The TSE may be taken overseas at any TOEFL center. Students should consult the appropriate section of the catalog for details of this requirement.

**FINANCIAL AID**

Financial aid is available for Ph.D. students only and takes the form of graduate assistantships and research assistantships. Conditions on funding are stated in the Graduate Guidelines available from the department's Director of Graduate Studies.

**REQUIREMENTS FOR THE MASTER'S DEGREE**

For the M.A., students must satisfy the requirements of either Option 1 or Option 2. Option 1 requires completion of 30 credit hours and a grade of PASS on the same Qualifying Exam taken by Ph.D. students. Option 2 requires completion of 36 credit hours to be planned in consultation with the student's advisor and the Director of Graduate Studies. Both options require a) that at least 21 of the required credit hours be taken in the Linguistics

**DEPARTMENT OF LINGUISTICS**

Telephone: (302) 831-6806

**FACULTY IN THE GRADUATE PROGRAM**

MARK E. AMSLER, PH.D. (OHIO STATE), *Professor; also Professor of English.*

PETER COLE, PH.D. (ILLINOIS), *Professor and Chair.*

WILLIAM J. FRAWLEY, PH.D. (NORTHWESTERN), *Professor; also Professor of English.*



COLLEGE OF BUSINESS AND ECONOMICS

DEPARTMENT OF ACCOUNTING

University of Delaware  
Newark, Delaware 19716-2715  
Ph: 302/831-2961  
Fax: 302/831-6750

**RECEIVED**  
UNIVERSITY OF DELAWARE

APR 22 1993

April 19, 1993

**FACULTY SENATE**

TO: Rachel Gray

FROM: Paul Hooper, Chair  
Graduate Studies Committee

A handwritten signature in black ink, appearing to read "Paul Hooper", written over the printed name and title.

Enclosed are supporting materials for the following item approved by the Graduate Studies Committee during our April 15 meeting (no items requiring forwarding were approved during the March 25 meeting).

1. Unanimous recommendation for granting of permanent status to Master's Program in Physical Therapy (to the Coordinating Committee).





**Commission on Accreditation in  
Physical Therapy Education**  
American Physical Therapy Association

1111 N. Fairfax Street  
Alexandria, Virginia 22314  
Telephone: (703) 684-2782

David Roselle, Ph.D., President  
March 12, 1993  
Page 2

March 12, 1993

David Roselle, Ph.D.  
President  
University of Delaware  
Hullihen Hall  
Newark, DE 19716

Dear Dr. Roselle:

The Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (CAPTE/APTA) at its meeting on February 24, 1993, voted to award accreditation to the physical therapist education program at the University of Delaware for a period of eight years. The Summary of Action by the Commission on Accreditation in Physical Therapy Education is enclosed. The Summary of Action indicates an additional request for material to be submitted in the form of a Progress Report.

Eight (8) copies of the Progress Report are to be submitted to this office no later than February 14, 1994. The report should be in narrative form, with appropriate appendices, documenting progress toward compliance with the area(s) identified by the Commission in the Summary of Action. The enclosed signature page should be attached to the front of the Progress Report.

The CAPTE's accreditation program provides service of value to students, to the public, to institutions of higher education, and to the profession. CAPTE has an obligation to assure the public that individuals entering the profession are receiving from the physical therapy program a quality education which will prepare them to give safe, highly effective patient care. A second purpose of the accreditation program is to foster excellence in physical therapy education by enhancement of the programs which offer entry level degrees.

Because the accreditation process should be of value to the educational programs, a Critique of the Accreditation Process Form is enclosed for comments and suggestions. Please complete the critique and return it to the APTA Department of Accreditation. All responses will be held in confidence. Completion of the critique is voluntary. The information in the critique will provide valuable assistance to the Commission on Accreditation in Physical Therapy Education and to the staff in the

Department of Accreditation in our efforts to continuously improve the effectiveness of the accreditation program.

If you have any questions or if you need any assistance, please do not hesitate to contact me or Virginia M. Nieland, Director, Department of Accreditation, at the above address. Best wishes in your endeavors towards a high quality physical therapist education program.

Sincerely yours,

*Billy Phillips*

Billy U. Phillips, Ph.D., Chair  
Commission on Accreditation in Physical Therapy Education

BP/te

Enclosures: Summary of Action  
Progress Report Signature Page  
Critique of the Accreditation Process  
Self-addressed Envelope

cc: Mary P. Richards, Ph.D., Dean, College of Arts and Sciences  
Milton H. Steison, Ph.D., Director, School of Life and Health Sciences  
Paul Mentler, Ed.D., P.T., Director, Physical Therapy Program ✓

ADDITIONAL MATERIALS REQUESTED BY THE ON-SITE  
EVALUATION TEAM TO BE FORWARDED BY THE PROGRAM TO:

Department of Accreditation  
American Physical Therapy Association  
1111 N. Fairfax Street  
Alexandria, VA 22314

To be completed by the On-site Evaluation Team:

Name of Institution University of Delaware

Degree Offered: Master of Science in Physical Therapy

Date of On-site Visit: November 9, 10, 11, 1992

Date program to be reviewed by CAPTE \_\_\_\_\_

Date additional material is to be received  
by the Department of Accreditation: \_\_\_\_\_

PLEASE SEND THREE (3) COPIES OF ALL MATERIALS.

ADDITIONAL MATERIALS REQUESTED: (if none, state)  
(List separately below and number 1,2,3, etc)

Goals and Objectives of the program

To be completed by staff: \_\_\_\_\_

Date materials received: \_\_\_\_\_

Date materials forwarded to CAPTE: \_\_\_\_\_

Staff signature: \_\_\_\_\_

TEAM LEADERS: IF ADDITIONAL MATERIALS ARE REQUESTED, SEND THIS  
COPY TO THE APTA AND LEAVE A COPY ON-SITE WITH THE PROGRAM.

RECOMMENDATIONS RELATED TO THE EVALUATIVE CRITERIA FOR ACCREDITATION

A major premise of accreditation in the U.S. is that accreditation without enhancement is not accreditation. Therefore, the Commission on Accreditation in Physical Therapy Education (CAPTE) encourages the on-site evaluators to offer recommendations and consultation to education programs in those areas of concern to the team.

In the process of reviewing materials and interviewing persons involved in the program, the on-site team has identified areas which the program faculty may wish to address in order to enhance, enrich and strengthen the program, and the achievement of its goals. The team offers these consultative comments as professional colleagues in good faith and not as representative of the CAPTE or APTA. The team may leave a copy of this page with the faculty.

1.  To look closer at the sequencing of the curriculum to improve the building of one course upon another. This will aid in enhancing student acquisition of knowledge.
2. Goals and objectives are the foundation upon which curriculum rest and they should be given careful development and attention to assure curricular stability and foundation.

The consultation session which typically follows the Oral Report should not be reported. The discussions during this session are off the record.

SIGNATURE PAGE

Report of the On-Site Evaluation Team  
Representing the

Commission on Accreditation in Physical Therapy Education

As a member of the on-site evaluation team which visited the below named institution, I verify that I have read the Report of the On-site Evaluation Team and:

- Agree with the findings as stated in the Report and authorize the distribution of the Report to the administrative officials of the program and institution and the CAPTE; or
- Have contacted the Team Leader to resolve some concerns with the Report as it is written and request that the distribution of the Report be held until those concerns have been rectified and staff notified of any revisions.

Names and Signatures of the Team

UNIVERSITY OF DELAWARE  
Name of Institution Visited

University of Delaware  
Name of Institution

11/9 - 11/11  
Date of Visit

Physical Therapy  
Physical Therapy Program

[Signature]  
Signature of Team Member

November 9, 10, 11, 1992  
Date of the On-Site Visit

Donald L. SORBY  
Name of Team Member (printed)

[Signature]  
Team Leader

[Signature]  
Team Member (P.T.)

[Signature]  
Team Member (Non-P.T.)

Comments:

Please return this page and any additional comments to the APTA Department of Accreditation, 1111 North Fairfax Street, Alexandria, VA 22314 within 3 days of the receipt of the Report of the On-site Evaluation Team from the Team Leader. Please retain your copy of the Report of the On-site Evaluation Team.

SIGNATURE PAGE

As a member of the on-site evaluation team which visited the below named institution, I verify that I have read the Report of the On-site Evaluation Team and:

- Agree with the findings as stated in the Report and authorize the distribution of the Report to the administrative officials of the program and institution and the CAPTE; or
- Have contacted the Team Leader to resolve some concerns with the Report as it is written and request that the distribution of the Report be held until those concerns have been rectified and staff notified of any revisions.

University of Delaware  
Name of Institution Visited

11/9 - 11/11/92  
Date of Visit

Margaret L. Maira 11/11/92  
Signature of Team Member/Date

Margaret L. Maira  
Name of Team Member (printed)

Comments:

Please return this page and any additional comments to the APTA Department of Accreditation, 1111 North Fairfax Street, Alexandria, VA 22314 within 3 days of the receipt of the Report of the On-site Evaluation Team from the Team Leader. Please retain your copy of the Report of the On-site Evaluation Team.