

UNIVERSITY FACULTY SENATE

SUMMARY OF AGENDA

for

November 2, 1981

- I. ADOPTION OF THE AGENDA
- II. APPROVAL OF THE MINUTES: September 14 and October 5, 1981
- III. REMARKS BY PRESIDENT TRABANT and/or PROVOST CAMPBELL
- IV. ANNOUNCEMENTS
  1. Senate President Hoffecker
  2. Minor in Civil Engineering
- V. OLD BUSINESS
  - A. Request for confirmation of Senate committee appointments
  - B. Recommendation to change the title and charge of the Committee on Academic Freedom
- VI. NEW BUSINESS
  - A. Election of a chair for the University Review Committee for Academic Complaints
  - B. Request for approval of a faculty appointment to the University Athletic Governing Board
  - C. Request for final approval of the B.S. in Geophysics
  - D. Recommendation for approval of a change in curriculum and name for a degree program in the Art Department
  - E. Resolution for a change in the University Beverage Alcohol Policy

UNIVERSITY OF DELAWARE  
NEWARK, DELAWARE  
19711

UNIVERSITY FACULTY SENATE  
303 HULLIHEN HALL  
PHONE: 302-738-2921

October 26, 1981

MEMORANDUM

TO: All Faculty Members

FROM: James D. Culley, Vice President *Jim Culley*  
University Faculty Senate

SUBJECT: Regular Faculty Senate Meeting, November 2, 1981

In accordance with Section IV, paragraph 6 of the Constitution, the regular meeting of the University Faculty Senate will be held on Monday, November 2, 1981 at 4:00 p.m. in room 110 Memorial Hall.

AGENDA

- I. Adoption of the Agenda.
- II. Approval of the Minutes of the regular Senate meetings of September 14 and October 5, 1981.
- III. Remarks by President Trabant and/or Provost Campbell.
- IV. Announcements - Senate President Hoffecker  
Minor in Civil Engineering (Attachment 1)
- V. Old Business
  - A. Request from the Committee on Committees (J. Morrison, chair) for confirmation of appointments.  
RESOLVED, that the following appointments to Senate committees are hereby confirmed:

Richard B. Herr	Member, Nominating Committee
Val E. Arnsdorf	Chair, Committee on Undergraduate Studies
Mary E. Shull	Member, Committee on Undergraduate Studies
Hans Peter Breuer	Chair, Fine Arts and Exhibitions Subcommittee
Ludwig Mosberg	Chair, Committee on Academic Freedom
William J. Frawley	Member (3 year term, expiring 1984) Committee on Graduate Studies
Frank R. Scarpitti	Chair, Committee on Promotions and Tenure.

- B. Recommendation from the Committee on Committees (J. Morrison, chair) for a change in the title and the charge to the Committee on Academic Freedom.

RESOLVED, that the Bylaws, III: Standing Committee System of the Faculty and its Senate, Committee on Academic Freedom, title, and paragraph 1 (current Faculty Handbook p. I-14) are changed to read as follows:

COMMITTEE ON ACADEMIC FREEDOM AND CIVIL LIBERTIES

This Committee shall study any condition within or without the University which in its judgment may affect the academic freedom of the University or of any of its members, and any condition within the University which in its judgment may affect the civil liberties of the University community, and shall report thereon to the faculty or its Senate.

[Note: this item was first introduced in the Senate at the April 6, 1981 meeting, at which time it was returned to committee; it was re-introduced and briefly discussed at the October 5, 1981 meeting, but the Senate adjourned without taking action on the resolution. The title and paragraph presently read:

COMMITTEE ON ACADEMIC FREEDOM

This committee shall study any condition within or without the University which in its judgment may affect the academic freedom of the University or of any of its members and shall report thereon to the faculty or its Senate.]

VI. New Business

- A. Election, from among the members of the committee, of a chair for the University Review Committee for Academic Complaints.
- B. Request from President Trabant for the consent of the Senate to the appointment of a faculty member to a University committee. [Note: this appointment has the approval of the Committee on Committees.]

RESOLVED, that the appointment of John Burmeister to the University Athletic Governing Board is hereby approved.

- C. Resolution from the Coordinating Committee on Education (R. Callahan, chair) for final approval of the B.S. in Geophysics. (Attachment 2)

RESOLVED, that as of this date the Bachelor of Science degree in Geophysics is recommended for permanent status.

- D. Resolution from the Coordinating Committee on Education (R. Callahan, chair) for approval of a change in curriculum and name for a degree program in the Art Department. (Attachment 3)

RESOLVED, that the curriculum for and the degree of Bachelor of Science in Visual Communications are approved, effective September, 1982, to replace the present Bachelor of Science in Graphics and Advertising Design.

- E. Resolution for a change in the Beverage Alcohol Policy.

RESOLVED, that the Faculty Senate recommends to the Board of Trustees that the Board change its policy concerning the use of alcoholic beverages so that individual transportation ("brown bagging") of alcoholic beverages is not permitted.

[Note: Senator Waid introduced this motion, which was seconded, at the Senate meeting of May 4, 1981; it was referred to the Committee on Beverage Alcohol and is being reported out, without the support of that committee, at this time. The relevant portion of the "Faculty Senate Policy Concerning Use of Alcoholic Beverages" presently reads: IV. Individual transportation ("brown bagging") of alcoholic beverages is not permitted except in stadium parking areas on the days of home varsity football games.]

- F. 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.)

JDC/b

- Attachments: Committee Activities List
1. Minor in Civil Engineering
  2. B.S. in Geophysics
  3. B.S. in Visual Communications



## COMMITTEE ACTIVITIES

The following issues are under active discussion in Senate committees. Your comments are welcome, and may be addressed to the committee chairpersons, or to the Senate Office for forwarding to the committees.

### COMMITTEE ON COMMITTEES (James Morrison, Chairperson)

Change in charge to Computer Committee  
Membership structure of several Faculty  
Senate Committees  
Faculty membership on Board of Trustees  
Clarification of responsibilities of Senate's and  
Provost's Cultural Committees:  
a. Senate's - Fine Arts and Exhibitions Subcommittee  
b. Provost's - Coordinating Committee for Exhibitions

### INSTRUCTIONAL RESOURCES (Jeanne Rymer, Chairperson)

Considering survey of pre-print graphics service

### PROMOTIONS AND TENURE (Frank Scarpitti, Chairperson)

Reviewing, for approval, promotion and tenure  
documents from nearly all colleges and departments

### RESEARCH (Dietrich Knorr, Chairperson)

University/industry relations  
International scholarly activities

### RULES (Henry Lee, Chairperson)

Revision of procedure for determining chairperson  
of the Academic Complaints Committee  
Establishing principles for voting privileges  
of joint appointment (two people sharing  
one academic line)  
Clarification of procedure for appointing  
faculty to administrative committees

### UNDERGRADUATE ADMISSIONS & STANDING (Robert Bennett, Chairperson)

Admission policies in relation to minority students

### UNDERGRADUATE STUDIES (Val Arnsdorf, Chairperson)

Issues associated with the home delivery of computer based instruction  
Requirements for honors courses and programs

### VISITING SCHOLARS AND SPEAKERS SUBCOMMITTEE (Roland Roth, Chairperson)

Twelve proposals requesting a total of \$5498. Committee awarded \$3798.  
Announcement of remaining available funds and guidelines for  
requests being sent to Deans, Chairpersons, and Academic Directors

MINOR IN CIVIL ENGINEERING

A minor in Civil Engineering may be earned by a student in any university bachelor's degree program other than Engineering through successful completion of a minimum of 21 hours of credit in civil engineering and engineering mechanics in accord with the following list and requirements. In addition: before beginning the Civil Engineering courses, the student must have credit for M 241, M 242 and PS 207; must meet the usual course prerequisites; must complete successfully C 103, C 104, M 243, M 302 and PS 208 before being certified for the minor in Civil Engineering; and must have a 2.000 average in the 21 hours of the Civil Engineering minor plus the eight math and science courses listed above.

The required engineering courses are:

CE 211	Statics	(3)
CE 212 (Lab optional)	Strength of Materials	(3)
CE 311	Dynamics	(3)
MEC 305 (Lab optional)	Fluid Mechanics	(3)

Further, an additional 9 hours (3 courses) in Civil Engineering must be taken, of which at least 6 hours shall be at the 300 or higher level. Those courses shall be selected with the specific advice of an adviser in the Civil Engineering Department to meet each student's objectives. For students oriented toward earth sciences these might include CE 320 and CE 421; for those interested in the environment these might include CE 331 and CE 431; for those interested in urban topics CE 331 and CE 451; for those with interests in construction and structures, CE 301 and CE 302, CE 303 or CE 403; for those interested in the oceans, CE 442, CE 671 and CE 675.

It must be understood that meeting the requirements for a minor in Civil Engineering without fulfilling the remaining requirements for an accredited engineering degree will fail to satisfy many employers seeking engineering employees, as well as most state licensing and registration boards which examine and certify persons as professional engineers and engineers-in-training. A dual degree program provides those advantages and others. The Civil Engineering Department Chairman can elaborate on these matters and provide career planning guidance.

UNIVERSITY OF DELAWARE  
NEWARK, DELAWARE  
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DEPARTMENT OF CHEMISTRY  
OFFICE OF THE ASSOCIATE CHAIRMAN  
208 BROWN LABORATORY  
PHONE: 302-733-1130

May 16, 1980

MEMORANDUM

TO: Dr. L. Leon Campbell, Provost

FROM: Geochemistry Review Committee  
John L. Burmeister, Department of Chemistry, Chairman  
Richard Libera, Department of Mathematics  
Walter S. Vincent, School of Life and Health Sciences

SUBJECT: Evaluation of Undergraduate Degree Program in Geophysics

From the outset, it became apparent that interest in the above program is centered in the Department of Geology. The Department of Physics does not assign a formal advisor to the program, and was unaware of the status of either the graduates of the program or its current enrollees. Nonetheless, the Department of Physics continues to be supportive of the program, in that the Department feels that it is providing a needed service to the Department of Geology without any significant strain on the Department of Physics resources.

Dr. Robert E. Sheridan, the Geophysics Advisor in the Department of Geology since the inception of the Geophysics Program, was most helpful in providing the necessary background information, the names of the eight students currently enrolled in the program, and the names of the two students who have graduated with B.S. degrees in Geophysics.

The Geophysics degree developed naturally out of the desire of students and faculty to have a more organized curriculum leading to a rigorous professional degree. Such a degree could be used in a well established science employed in industry, government, and scholarly research. Geophysics has long been recognized as an important subdivision of the geological sciences, and formal classifications of "Geophysicist" are used in industry and in the CS ratings of the Civil Service register. More recently Geophysics has expanded to include studies of the earth's atmospheric physics, the oceans, and the planets. On the one hand, studies in Geophysics can be very practical, such as in the exploration for subsurface mineral resources, while on the other hand, quite theoretical studies are included, such as the study of the deep interior of the earth and the magnetosphere. The undergraduate degree in Geophysics is meant to prepare students for direct employment with the B.S. degree, and for admission to the best graduate schools to prepare for professional and scholarly research.

In 1976 the Department of Geology began negotiating with the Physics Department about the possibilities of developing a joint B.S. in Geophysics utilizing existing courses and faculty. Dr. Richard Murray, then chairman,



May 16, 1980

and Dr. David Onn were instrumental in bringing the degree program into existence through much debate in the Physics Department. We think both the Physics and Geology Departments are pleased with the degree program in that it has functioned without interfering with previously existing programs. More importantly the students enrolled in Geophysics are of high quality and, although small in numbers, they have contributed positively to the academic level of both departments.

Two seniors, two juniors, one sophomore, and three freshmen are currently enrolled in the degree program. Only one senior and one freshman returned the Geophysics questionnaire to our Committee (see Attachments 1 and 2). Although it is dangerous to draw conclusions from such a small sample, both students seemed to be generally quite pleased with the program. The only criticism common to both involved what they perceived to be insufficient information on career opportunities in geophysics. In this same vein, the senior felt that he/she had not been adequately prepared for employment, although his/her preparation for graduate work was good. The senior recommended that electrical engineering courses be made available as electives.

Neither of the graduates of the Geophysics program responded to our written requests for an evaluation of the program. [According to Dr. Sheridan, one of the graduates turned down financial aid awards from Colorado School of Mines and Penn State to accept a job as Exploration Geophysicist with Exxon Co. U.S.A. He is doing very well and has moved up directly beneath the District Manager. After a few years of job experience, he intends to go to graduate school. The second graduate is presently working on an M.S. degree at Colorado School of Mines.] However, Dr. Sheridan provided us with the name of a former graduate (1973) who double majored in Geology (B.S.) and Physics (B.A.) and is now working for Marathon Oil Company as an Advanced Geophysicist engaged in hydrocarbon exploration, after receiving his M.S. in Geophysics from the Colorado School of Mines. He responded with a lengthy and thoughtful evaluation of his training vis-a-vis the current state of geophysics (see Attachment 3). He had nothing but praise for the geophysics courses he took at Delaware, the Department of Geology as a whole, and Dr. Sheridan in particular. With the exception of recommending that a course in well logging (borehole geophysics) be added to the undergraduate curriculum, the bulk of his specific recommendations pertain to the graduate program. Other items of significance which he noted include the following:

- Felt that his undergraduate program at Delaware, particularly through the Department of Geology, provided him with a great advantage over his peers.
- Pointed out that an M.S. degree in geophysics is an optimum degree for explorationists.
- Pointed out the advantages of a background in computer science and electrical measurements (recall senior's comments).
- Recommended more orientation toward application in the geophysics courses.



Dr. L. Leon Campbell

Page 3

May 16, 1980

- Noted that industry pays geophysicists exceedingly well, and that the need for geophysicists far outpaces their availability.

In summary, it would appear that the undergraduate degree program in Geophysics provides extraordinarily attractive career opportunities. However, because the academic demands of the program are comparably challenging, it has attracted a rather small number of intellectually superior majors. Given the positive responses of all respondents, and the fact that the program requires little in the way of additional effort on the part of both Departments, we would recommend that the program be continued as a regular offering. We would also recommend that the faculty involved develop a more effective program geared toward informing the geophysics majors of their career opportunities.

sc

Attachments (3)

cc: Dr. Robert Sheridan  
Dr. Billy P. Glass  
Dr. William Daniels

Geology and Physics: Bachelor of Science in Geophysics  
John C. Kraft and Charles B. Cooper, Faculty Advisors

Suggested Course Sequence

FRESHMAN YEAR

<u>First Term</u>	<u>Credits</u>	<u>Second Term</u>	<u>Credits</u>
General Geology, GEO 107 . . . . .	4	General Geology, GEO 108 . . . . .	4
Analy. Geom. & Calc., M241 . . . . .	4	Analy. Geom. & Calc., M242 . . . . .	4
Elective . . . . .	3	General Physics, PS 207 . . . . .	4
Critical Reading & Writing, E110 . . . . .	3	Elective (Group I/II). . . . .	3
Elective (Group I/II). . . . .	3		<u>15</u>
	<u>17</u>		/

SOPHOMORE YEAR

General Physics, PS 208 . . . . .	4	General Physics, PS 209 . . . . .	3
Analy. Geom. & Calc., M243 . . . . .	4	Diff. Equations, M302 . . . . .	3
Elective (Group I/II) . . . . .	3	Elective (Group I/II) . . . . .	3
General Chemistry, C103 . . . . .	4	General Chemistry, C104 . . . . .	4
	<u>15</u>	Elective (Group I/II). . . . .	3
			<u>16</u>

JUNIOR YEAR

Structure & Tectonics of Earth, GEO 401 . . . . .	3	Physical Min. & Crystallog, GEO 201 . . . . .	4
General Computer Sci., CS105 . . . . .	3	Strat. & Sedim. Geol., GEO 302 . . . . .	4
Analytical Mechanics, PS419 . . . . .	3	Field Geology, GEO 402 . . . . .	3
Advanced Comp., E301 . . . . .	3	Analy. Mechanics, PS420 . . . . .	3
Elective . . . . .	3	Elective . . . . .	3
	<u>15</u>		<u>17</u>

SUMMER: Recent Sedimentary Environments, GEO 432 3 credits

or

Geology Field Camp 5 credits (in lieu of GEO 402 & 432)

SENIOR YEAR

Elem. Geophyscis I, GEO 453 . . . . .	3	Elem. Geophysics II, GEO 454 . . . . .	3
Electrical Measurements PS405 . . . . .	3	Electrical Measurements PS406 . . . . .	3
Kinetic Theory & Thermo, PS316 . . . . .	3	Acoustics, PS431 . . . . .	3
Elective . . . . .	3	Elective . . . . .	3
Elective . . . . .	3	Elective . . . . .	3
	<u>15</u>		<u>15</u>

\*Students interested in this program are asked to contact Dr. David Onn in Physics or Dr. Robert Sheridan in Geology.

(For Publication in the Bulletin)

SPECIAL CURRICULA, COLLEGE OF ARTS AND SCIENCE

Geology and Physics: Bachelor of Science in Geophysics  
John C. Kraft and Charles B. Cooper, Faculty Advisers

Requirements for the B.S. in Geophysics include 30 credits in Geology, specified as GEO 107, GEO 108, GEO 201, GEO 302, GEO 401, GEO 402, GEO 453, GEO 454, plus one elective from GEO 432, GEO 311, GEO 202, GEO 407, GEO 431, and GEO 458. Alternatively, an accredited Geology Field Camp course (5 credits) may be substituted for GEO 402 plus the elective in Geology. Also required are 29 credits in Physics, specified as PS 207, PS 208, PS 209, PS 419, PS 420, PS 405, PS 406, and two courses selected from PS 313, PS 316, PS 421, PS 422, and PS 431. MEC 305/6 may be substituted for one of these physics electives. Students who have taken courses other than PS 207, 208, 209, are urged to consult faculty advisers for this program to see if the course they have taken could be substituted for one of the above required courses. Additional requirements include 15 credits of Mathematics, specifically M 241, M 242, M 243 M 302; 3 credits of Computer Science, CS 105, 8 credits of Chemistry, C 103, and C 104; 6 credits of English, E 110 and E 301; 18 credits of electives from Groups I and II; plus 18 credits of free electives. A combined total of 21 credits of Group I and II electives is required, including at least 6 from each group: E 301 counts as a Group I course. The free electives may be chosen under advisement from other relevant science and mathematics courses, such as those in Physics, Chemistry, Biology, Civil and Mechanical Engineering, but the electives might also include courses in foreign languages and other non-scientific areas.

UNIVERSITY OF DELAWARE  
NEWARK, DELAWARE  
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DEPARTMENT OF ART  
104 RECITATION HALL  
PHONE: 302-738-2244

October 10, 1981

I was asked to provide a brief summary for the changes to the Graphic and Advertising Design program in the Department of Art with regard to the November Senate meeting.

The course changes while appearing to be extensive are an effort to provide a smoother flow between courses in the curriculum. Each of the fourteen courses that we teach on a regular basis are required of all "graphics" majors. The past program was built a piece at the time with too little regard for the overall program.

With the recent introduction of severe enrollment limits on the number of sophomore and junior level majors we felt it necessary to create a sophomore level course sequence that served as a strong foundation for continuing majors as well as a solid experience for those who were not allowed to continue in the program.

The name change to Visual Communications represents a more realistic description of our present program. Graphic design means "design for printing" and does not include the design of advertising for television or the newer involvement with slide/tape productions and film graphics.

Sincerely,



Raymond Nichols, Associate Professor of Art  
Coordinator of Graphic and Advertising Design



VISUAL COMMUNICATIONS

FRESHMAN YEAR

<u>FALL SEMESTER</u>	<u>CREDITS</u>	<u>SPRING SEMESTER</u>	<u>CREDITS</u>
Art 110: Foundation Drawing I	3	Art 112: Foundation Drawing II	3
Art 111: Foundation Design I	3	Art 113: Foundation Design I	3
Art History Elective	3	Art History Elective	3
English 110	3	Group Requirements*/Electives	6
Group Requirement*/Elective	<u>3</u>		<u>15</u>
	15		

SOPHOMORE YEAR

Art 200: Visual Communication I	3	Art 201: Visual Communication II	3
Art 202: Production Techniques I	3	Art 203: Production Techniques II	3
Art 215: Commercial Photography I	3	Art 216: Commercial Photography II	3
Art History Elective	3	Group Requirements*/Electives	6
Group Requirement*/Elective	<u>3</u>		<u>15</u>
	15		

JUNIOR YEAR\*\*

Art 300: Corporate Design	3	Art 301: Environmental Graphics	3
Art 310: Illustration I	3	Art 311: Illustration II	3
Art Elective	3	Art Elective	3
Group Requirements*/Electives	9	Group Requirements*/Electives	9
	<u>18</u>		<u>18</u>

SENIOR YEAR\*\*

Art 400: Design for Art Studios	4	Art 401: Design for Advertising Agencies	4
Art 402: Publication Design	3	Art 407: Portfolio Preparation	3
Group Requirements*/Electives	9	Group Requirements*/Electives	9
	<u>16</u>		<u>16</u>

TOTAL CREDITS: 128

- \* Group 1 Requirements\*\*\*  
15 hours total (6 hours from 1 department, 3 hours from 2 others and 3 hours of the student's choice)
- Group 2 Requirements\*\*\*  
15 hours total (6 hours from 1 department, 3 hours from 2 others and 3 hours of the student's choice)
- Group 3 Requirements\*\*\*  
14-15 hours total from at least 2 departments
- \*\* Students with junior or senior standing in Visual Communications may take Art 305: DEsigners Practicum or Art 405: DEsigners Practicum
- \*\*\* Students can opt to drop up to 9 hours from the total group requirements and use as general electives

Description of changes to the curriculum for the Bachelor of Science degree in Graphic and Advertising Design.

Program name change from "Graphic and Advertising Design" to "Visual Communications".

- Old course Art 200: Typography  
Name change to "Visual Communication I" with minor revisions to the course content
- New course Art 201: Visual Communication II  
Replaces Art 403: Package Design II
- Old course Art 202: Production Techniques  
Name change to "Production Techniques I" with minor revisions to the course content
- New course Art 203: Production Techniques II  
Replaces Art 210: Basic Illustration
- Old course Art 210: Basic Illustration  
Deleted
- New course Art 215: Commercial Photography I  
Replaces Art 144: Introduction to Photography
- New course Art 216: Commercial Photography II  
Replaces Art 244: Photography I
- New course Art 300: Corporate Design  
Replaces Art 303: Visual Design and Communication
- New course Art 301: Environmental Graphics  
Replaces Art 306: Design for Display and Exhibition
- Old course Art 303: Visual Design and Communication  
Deleted
- New course Art 305: Designers Practicum  
Used as a Visual Communications elective
- Old course Art 306: Design for Display and Exhibition  
Deleted
- Old course Art 313: Design Illustration I  
Number change to Art 310 and a name change to "Illustration I"
- Old course Art 314: Design Illustration II  
Number change to Art 311 and a name change to "Illustration II"
- New course Art 315: Commercial Photography III  
Used as a Visual Communications elective
- Old course Art 400: Advertising Design I  
Name changed to "Design for Art Studios" with minor revisions to the course content
- Old course Art 401: Advertising Design II  
Name changed to "Design for Advertising Agencies" with minor revisions to the course content
- Old course Art 402: Package Design I  
Deleted
- New course Art 402: Publication Design  
Replaces Art 402: Package Design I

Old course Art 403: Package Design II  
Deleted

New course Art 405: DEsigners Practicum  
Used as a Visual Communications elective

Old course Art 405: Practicum  
Number change to Art 406

New course Art 415: Commercial Photography IV  
Used as a Visual Communications elective