

3-25-1976

## One Hundred and Fourteenth Report of the Curricular Affairs Committee

University of Rhode Island Faculty Senate

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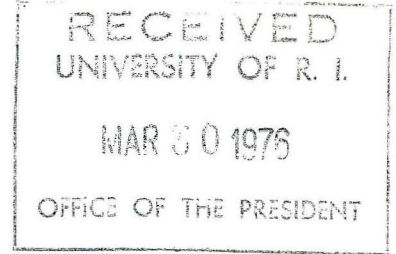
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UNIVERSITY OF RHODE ISLAND  
Kingston, Rhode Island

FACULTY SENATE  
BILL

Adopted by the Faculty Senate



TO: President Frank Newman  
FROM: Chairman of the Faculty Senate

1. The attached BILL, titled One Hundred and Fourteenth Report of the Curricular Affairs Committee

is forwarded for your consideration.

- 2. The original and two copies for your use are included.
- 3. This BILL was adopted by vote of the Faculty Senate on March 25, 1976 (date)
- 4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Regents, completing the appropriate endorsement below.
- 5. In accordance with Section 8, paragraph 2 of the Senate's By-Laws, this bill will become effective on April 15, 1976 (date), three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; (3) you forward it to the Board of Regents for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Regents, it will not become effective until approved by the Board.

March 26, 1976  
(date)

W. Donald Rankin  
W. Donald Rankin  
Chairman of the Faculty Senate

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ENDORSEMENT 1.

TO: Chairman of the Faculty Senate  
FROM: President of the University

RECEIVED

APR 9 1976

UNIVERSITY OF RHODE ISLAND  
FACULTY SENATE

- 1. Returned.
- 2. Approved ✓. Disapproved \_\_\_\_\_.
- 3. (If approved) In my opinion, transmittal to the Board of Regents is not necessary.

April 8, 1976  
(date)

Frank Newman  
President

(OVER)

*do not copy*

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Regents

FROM: The University President

- 1. Forwarded.
- 2. Approved.

\_\_\_\_\_ (date) \_\_\_\_\_ President

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ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Regents, via the University President.

- 1. Forwarded.

\_\_\_\_\_ (date) \_\_\_\_\_  
 \_\_\_\_\_ (Office)

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ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

- 1. Forwarded from the Chairman of the Board of Regents.

\_\_\_\_\_ (date) \_\_\_\_\_ President

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Original received and forwarded to the Secretary of the Senate and Registrar for filing in the Archives of the University.

\_\_\_\_\_ (date) \_\_\_\_\_  
 Chairman of the Faculty Senate

UNIVERSITY OF RHODE ISLAND  
Kingston, Rhode Island

March 8, 1976

Faculty Senate Curricular Affairs Committee One Hundred and Fourteenth Report

On March 5, 1976 the Faculty Senate Curricular Affairs Committee considered the following matters now submitted to the Faculty Senate.

S E C T I O N I

Informational Changes:

A. College of Arts and Sciences

1. Department of Art

a. CHANGE: Description for the following courses:

- 1) ART 231 Printmaking I I and II, 3  
Introduction to relief, intaglio, lithographic and silk-screen printmaking; Workshop procedures and possibilities for further exploration inherent in printing mediums. (Studio 6) Pre: 101 or 207 or permission of instructor. Cordes
- 2) ART 332 Printmaking II I and II, 3  
Continuation of 231 with introduction to color lithography and various techniques that encourage experimentation. Contemporary viewpoints and their relationship to traditional printmaking. (Studio 6) Pre: 231. Cordes
- 3) ART 337 Printmaking III I and II, 3  
Independent work in printmaking mediums. Introduction of aluminum plate and photo-lithography. (Studio 6) Pre: 332. Cordes
- 4) ART 338 Printmaking IV I and II, 3  
Continuation of 337 emphasizing individual development in specific printmaking mediums chosen by students. (Studio 6) Pre: 337. Cordes
- 5) ART 356 Medieval Art II, 3  
Painting, sculpture, architecture and minor arts of the Middle Ages from 500 to 1400 in Western Europe. (Lec. 3) Pre: 251 or permission of department. Kampen

b. CHANGE: Prerequisite for the following courses:

- 1) ART 208 Drawing II I and II, 3  
Pre: 207.

A. 1. b. 2) ART 213 Cinegraphics I I and II, 3  
Pre: Permission of instructor.

3) ART 221 Two-dimensional Studio II I and II, 3  
Pre: 101 and 207.

c. DELETE: Prerequisite for the following courses:

1) ART 103 Three-dimensional Studio II I and II, 3

2) ART 203 Color II, 3

3) ART 207 Drawing I I and II, 3

2. Department of Geology

a. CHANGE: Prerequisite for GEL 104:

GEL 104 Historical Geology II, 3  
Pre: 103 or 105, 106 or permission of instructor.

b. CHANGE: Title and description for GEL 106:

GEL 106 (or ESC 106) Introductory Geology Laboratory I, II, I

Introduction to minerals and rocks, their physical properties and mode of origin; geologic and topographic map interpretation. (Lab. 2) Pre: Prior or concurrent registration in 103 or 105. Staff

c. CHANGE: Description for GEL 301:

GEL 301 Geology of Mineral Resources I, 3  
Origin, distribution, and importance of various mineral resources; energy sources, metals, building and industrial materials, water. Strategic minerals, their world distribution and part played in world affairs. (Lec. 3) Pre: 103 or 302, or ESC 105 and 106 or permission of instructor. Cain

3. Department of History

CHANGE: Description for the following courses:

1) HIS 381 History of Colonial Latin America I, 3  
The inter-action of American-Indian civilizations with European and African elements in the Spanish and Portuguese empires of the New World, concluding with wars for independence. (Lec. 3) Bryan

2) HIS 382 History of Modern Latin America II, 3  
Historical analysis of the political, cultural, and social-economic dimensions of tradition, reform and revolution in Latin America since 1810. (Lec. 3) Bryan

A. 4. Department of Music

CHANGE: Description of curriculum in the Undergraduate Bulletin as follows:

- 1) Change all references to "applied music" to "performance"
- 2) Add the following paragraph three under Bachelor of Music, Curriculum Requirements page 40 of the Undergraduate Bulletin 1975-76:

Students are encouraged to attend department sponsored concerts given each semester.

- 3) Add the following as paragraph three under Bachelor of Music on page 49:

Seven semesters of MUS 250 in conjunction with studio performance is required of all bachelor of music students. Attendance is required at a minimum of seventy-five percent of all scheduled afternoon student recitals.

- 4) Delete footnote concerning MUS 250 on page 49.

5. Department of Physical Education

CHANGE: Number of PED 345 to PED 348 (PEM 304D, PEW 305Q) Diving

6. Department of Speech

- a. CHANGE: Description for SPE 310:

SPE 310 Contemporary Oral Communication I and II, 3  
Analysis of contemporary rhetorical theories as they relate to speaking in business, civil rights, education, government, labor, law and religion. Focus each semester on a critical contemporary issue. May be repeated once with permission of instructor. (Lec. 3) Devlin, Doody, Katula

- b. CHANGE: Prerequisite for SPE 102:

SPE 102 Public Speaking 11, 3  
Pre: 101.

B. College of Home Economics

DELETE: Prerequisite for CDF 399X, FNS 399X, HED 399X, HMG 399X and TXC 399X.

\* All prefixes were changed to PED in 108 Report of the Curricular Affairs Committee. Prefix in parenthesis appeared in 1975-76 Undergraduate Bulletin.

C. College of Pharmacy

Department of Pharmacy Administration

CHANGE: Prerequisite for PAD 203:

PAD 203 Social and Professional Orientation to Pharmacy  
I and II, 2  
Pre: First and Second year standing only.

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S E C T I O N    I I

Curricular Matters Submitted to the Faculty Senate for Confirmation:

A. College of Arts and Sciences

1. Department of Art

a. ADD: The following courses:

- 1) ART 215 Filmmaking I I and II, 3  
Introduction to basic filmmaking technique and theory.  
Emphasis on film as a visual art. Required projects and  
readings. (Studio 6). Keller
- 2) ART 216 Filmmaking II I and II, 3  
Continuation of 215 with added emphasis on sound. Re-  
quired projects and reading. (Studio 6) Pre: 215.  
Keller
- 3) ART 274 Topics in Film and Photography I, 3  
Selected topics or periods in the history of film and  
photography. Topics to be announced. (Lec. 3) Pre:  
Permission of department, May be repeated twice with  
permission of instructor. Staff
- 4) ART 280 Introductory Topics in European Art I, 3  
Consideration of the history of European Art through  
surveys of particular periods and themes. Topics to be  
announced. (Lec. 3) May be repeated twice with per-  
mission of instructor. 1976: Women in Art. Staff
- 5) ART 283 Topics in Non-European Art I, 3  
Selected topics in Non-European Art other than African.  
Topics to be announced. (Lec. 3) May be repeated once  
with permission of instructor. Staff
- 6) ART 284 Introductory Topics in Architectural History II, 3  
Consideration of the history of architecture and city  
planning through surveys of selected periods and themes.  
Topics to be announced. (Lec. 3) May be repeated once  
with permission of instructor. 1977: Short History of  
Architecture. Staff

- A. 1. a. 7) ART 365 Renaissance Art 1, 3  
Painting, sculpture, and architecture of Italy and  
Northern Europe from 1400-1600. (Lec. 3) Pre: 251 and  
252 or permission of department. Staff

b. DELETE: The following courses:

- 1) ART 254 The Moving Image and the New Art 11, 3
- 2) ART 260 Short History of Architecture 11, 3
- 3) ART 264 History of Decorative Arts 1, 3
- 4) ART 265, 266 History of Asian Art 1 and 11, 3 each
- 5) ART 272 Pre-Columbian Art 11, 3
- 6) ART 352 Photography and Art in the Nineteenth Century 1, 3
- 7) ART 353 Art of Egypt and Mesopotamia 1, 3
- 8) ART 357 Italian Renaissance Art 1, 3
- 9) ART 358 Northern Renaissance Art 1, 3
- 10) ART 363 History of Modern Architecture and City  
Planning 11, 3
- 11) ART 375 Nineteenth Century European Art Outside France 11, 3
- 12) ART 376 Drawing and Drawings 11, 3

c. CHANGE: Curriculum description for Bachelor of Arts in Art  
History in the Undergraduate Bulletin.\*

#### BACHELOR OF ARTS

##### Art History

It is recommended that students intending to concentrate in Art history plan to complete a minimum of 6 credits in the history of art by the end of the sophomore year. For graduation, students must complete 30 credits in art history, including ART 251 and 252 (6 cr.), 354 (3), 356 (3), 365 (3), 359 (3), 361 or 362 (3). An additional 3 credits are taken from any 200 or 300 level course in art history. An additional 6 credits must be selected from ART 461, 462, 469, 470, 480 or 484.

It is recommended that students concentrating in art history achieve intermediate level proficiency in at least one foreign language. Students are also encouraged to enroll in courses in history, literature, music and philosophy.

d. CHANGE: Curriculum description for the Bachelor of Arts in Art  
Studio in the Undergraduate Bulletin:

Delete the following sentence:

Students following curriculums in effect before 1970, may use up to 9 credits of electives for further courses in art without increasing their total graduation requirements.

\* contingent upon approval of all changes in course proposals in this report, Sections I, II and III.



A. 1. e. CHANGE: Curriculum description for Bachelor of Fine Arts in the  
Undergraduate Bulletin:

BACHELOR OF FINE ARTS

It is recommended that students intending to enter the B.F.A. program in art plan to complete ART 120 in the freshman year and to have completed a minimum of 12 credits in studio by the end of the sophomore year.

Students in the B.F.A. program must complete a minimum of 48 credits in art. Studio courses required of all majors include: 101 (3), 103 (3), 207 (3), 208 (3), 403 (3), 404 (3), 405 (3) and 406 (3).

An additional 15 credits must be selected from studio courses numbered below 400.

Art 120 is required of all students and an additional 6 credits must be selected in art history. Students anticipating graduate study in art should note that some graduate schools require 12 credits in art history for entrance.

Outstanding entering students may, upon recommendation of their adviser and approval of the art faculty, be excused from certain required 100 and 200 level art courses for those credits.

Student work accomplished as part of a course may, with the consent of the student, be retained by the Department of Art for teaching or exhibition purposes. When this work is no longer needed, the student will be notified. After notification, the work must be reclaimed within 60 days. Student(s) works selected by the art faculty for inclusion in the permanent collection of the University may be purchased through negotiations with the student.

Students enrolled in the B.F.A. program may use the electives remaining after completion of the general education and concentration requirements to increase their credits in art without increasing total graduation requirements.

A total of 120 credits is required for graduation, distributed as follows: General Education Requirements (45 cr.), major requirements in studio (39) and art history including Art 120 (9), Electives (27).

2. Department of Chemistry

ADD: The following courses:

- 1) CHM 291 Organic Chemistry 1, 5  
Development of principles and theory through an examination of structure, nomenclature and reactions of organic compounds. (Lec. 4, Lab. 3) Pre: 192 or permission of instructor. Not open to students who have passed 227.  
Staff

- A. 2. 2) CHM 292 Organic Chemistry 11, 5  
Continuation of 291 with extension to several additional families of compounds. (Lec. 4, Lab. 3) Pre: 291. Not open to students who have passed 228. Staff

3. Department of Geology

- a. CHANGE: Description and contact hours for GEL 103:

GEL 103 Physical Geology 1, 3  
Physical processes on and within the earth; its composition; development and modification of surficial features and their relationship to internal processes; resource and environmental aspects. (Lec. 3) Not open to students who have passed 105. Pre: registration in 106. Cain and Hermes

- b. CHANGE: Curriculum description for B.A. and B.S. in Geology in the Undergraduate Bulletin:

1) BACHELOR OF ARTS

The first paragraph should read:

Students selecting this field of concentration must complete a minimum of 30 credits in geology, including GEL 103 (3 cr.), 106 (1 cr.) and 104 (3 cr.) GEL 105 (ESC 105) normally may not be included.

2) BACHELOR OF SCIENCE

The third and subsequent paragraphs should read:

Students concentrating in geology should note the requirement for field experience. An approved summer field camp for a minimum of 4 credits is undertaken following the junior year and related costs are the responsibility of the student. Minimum background for field camp normally includes GEL 320, 370, and 450. (Field camp is not required under the B.A. curriculum.)

A total of 126 credits is required for graduation. Following is the suggested sequence of courses for the first four semesters. Completion of these courses fulfills Division B requirements and satisfies prerequisites for upper-division geology courses.

Freshman Year

The student carries 16-17 credits during the first semester including MTH 141 (3 cr.), GEL 103 (3), 106 (1), BOT 111 or BIO 101 (4-3), and general education requirements (6).

During the second semester 17-16 credits includes MTH 142 (3), GEL 104 (3), ZOO 111 or BIO 102 (4-3), ESC 104 (4), and general education requirements (3).

A. 3. b. 2) Sophomore Year

The first semester of 15-16 credits includes CHM 101, 102, or 103, 105 (4), PHY 213, 285, or 111 (4), required geology course(s) (4-8), and general education requirements (3-0).

During the second semester the student takes 17-18 credits from CHM 112, 114 (4), PHY 214, 286 or 112 (4), elective or geology course (3-4), and general education requirements (6).

Junior and Senior Years

In addition to the remainder of the general education requirements and free electives, the following 4-credit courses are required (if not taken in the sophomore year): GEL 320, 330, 370, 410, 440, 450; approved summer camp (between junior and senior years).

Students must also take an approved course in statistical methods or computer science and 12 credits of electives (including additional geology courses) which constitutes an integrated group in earth science. These are selected in consultation with the faculty adviser.

4. Department of Microbiology

CHANGE: Title, description, credits and clock hours for MIC 361:

MIC 361 Soil Microbiology 11, 4  
Living microbial populations, microenvironments, decomposition and utilization of organic matters, mineralization, immobilization and microbial interactions. Isolation, enumeration and estimation of microbial activity. Emphasis on microbial aspects of soil processes. (Lec. 3, Lab. 3) Pre: 201 or 211; 1 semester organic chemistry. In alternate years, next offered 1976-77.  
Shivvers.

5. Department of Music

ADD: The following courses:

- 1) MUS 241 Performance in Piano for Theory-Composition Majors 1 and 11, 2  
Reading scores at the piano and using the piano as a tool for composing or theoretical study and teaching. Private instruction. Four semesters. (Studio 6). Pre: 182 or equivalent. Staff
- 2) MUS 242 Performance in Piano for Voice Majors 1 and 11, 2  
Reading as an adjunct skill for teaching voice, conducting choirs, or familiarizing oneself with the sound of accompaniment. Private instruction. Four semesters. Not open to students with credit for 251B (Studio 6) Pre: 182 or equivalent. Staff

A. 6. Department of Political Science

ADD: PSC 201 Introduction to Comparative Politics 1, 3  
Trends in the comparison of government systems, and of  
indices for political development. Illustrations and  
comparisons from the American, European, and developing  
nations. (Lec. 3) Milburn

7. Department of Speech

a. CHANGE: Name of department to Department of Speech Communication.

b. CHANGE: Credits and description for SPE 105:

SPE 105 Parliamentary Procedures 1, 1  
Those rules governing the conduct of a meeting. The  
drafting of a constitution and by-laws for local organi-  
zation. (Lec. 1) Roth

c. ADD: SPE 300 Theoretical Perspectives of Human Speech 1, 3  
Survey comparing and integrating non-systems communi-  
cation theories; focus on application of these theories to  
human behavior and on process of speaking. (Lec. 3)  
Brownell, Katula, Purdy

d. DELETE: Speech Education Option.

e. CHANGE: Curriculum description for B.A. in Speech Communication  
in the Undergraduate Bulletin:

The Department of Speech Communication offers the bachelor  
of arts (B.A.) degree with curricula in speech communication  
studies and preprofessional studies in communicative disorders.  
The Master of Arts degree programs in communicative disorders,  
i.e., in speech pathology and audiology, are described in the  
Graduate Bulletin.

The Department programs provide maximum flexibility in planning  
for a wide variety of academic and occupational goals in speech  
communication studies and preprofessional studies in communi-  
cative disorders. The curriculum is personalized for each  
student. While the student plays a dominant role in curriculum  
planning, his/her program is closely supervised by his/her  
adviser. Specific curricular, extra-curricular and internship  
programs are planned as integral parts of each student's program.  
Departmentally approved courses give the student broad variety  
or specific depth dependent on the student's needs and goals.  
Courses outside the department related to student communication  
needs and goals are encouraged and may be counted as concentra-  
tion credits.

Thirty credits are the minimum required for students concentra-  
ting in speech communication.

The undergraduate concentrator in the department may pursue  
studies in any of the following tracks, dependent upon his/her  
interests and goals.

A. 7. e. (continued)

Speech Communication Studies Program

This concentration requires SPE 101, at least three credits of courses in the preprofessional track and at least twelve credits of courses at the +300 level. The student is required to select 12 of his/her remaining concentration credits within one of the following options.

Individualized Program

Student in consultation with adviser will plan a program to meet his/her needs.

Business and Professional Communication

Four of the following courses: SPE 201, 210, 215, 220, 304, 315, 317, 320, 400, 415.\*

Oral Interpretation

Four of the following courses: SPE 201, 231, 304, 331, 332, 333, 410, 431, 437.\*

Rhetoric and Public Address

Four of the following courses: SPE 210, 215, 304, 317, 320, 400, 420, 430, 437.\*

Communication Theory

Four of the following courses: SPE 201, 220, 300, 301, 304, 315, 320, 372, 374, 375, 400, 410, 415.\*

Preprofessional Programs in Communicative Disorders

This concentration requires 12 credits of course work in speech pathology and audiology (always including SPE 260 and SPE 261) 372, 373, 374, 375, and at least three credits of courses in communication competencies: viz.--SPE 101, 201, 215, 220, 231, as preparation for graduate studies.\*

8. Department of Zoology

- a. ADD: ZOO 252 Human Genetics and Society SS/EXT, 3  
Human heredity and its individual and social im-  
plications. (Lec. 3) Pre: one semester of biolo-  
gy or permission of instructor. Costantino and  
Surver

- b. CHANGE: Clock hours and prerequisite for ZOO 354:

ZOO 354 Invertebrate Zoology 11, 4  
(Lec. 2, Lab. 4) Pre: one semester zoology.

9. Department of Physical Education

CHANGE: Prefix for all REC courses to RCR.

\* Students will individualize the remaining credits in consultation with their adviser.

B. College of Engineering

Department of Chemical Engineering

CHANGE: Curriculum description for the sophomore year of the B.S. in Chemical Engineering in the Undergraduate Bulletin.\*

Sophomore Year

The first semester is 18 credits including CHE 212 (3), CHM 291 (5), MTH 243 (3), PHY 214 (3)†, and 286 (1), a same symbol that is currently used in Bulletin general education elective in Division A, C, or D (3).

The second semester is 15 credits, including approved biological science elective (3), CHE 272 (3) and 313 (3), CHM 228 (3), ELE 220 (3).

C. College of Pharmacy

Department of Pharmacy Administration

DELETE: PAD 399 Pharmacy Externship 11, 3-12

\* \* \* \* \*

S E C T I O N III

Joint Report of the Curricular Affairs Committee and Graduate Council on 400-level Courses.

At the February 20, 1976 and March 5, 1976 meetings of the Curricular Affairs Committee and the February 27, 1976 and March 5, 1976 meetings of the Graduate Council, the following matters were considered and are now submitted to the Faculty Senate.

A. Informational Changes:

1. College of Arts and Sciences

a. Department of Geology

1) CHANGE: Title and description for GEL 450:

† For PHY 213, 214, 285, 286 (8 credits), students may substitute MCE 161 and 261 (or 162 and 263) and ELE 210 (9 credits).

GEL 450 Introduction to Sedimentation and Stratigraphy 1, 4  
Principles underlying the formation, composition, sequence, and correlation of sedimentary rocks. Methods, procedures, and techniques to study sedimentary processes, depositional environments, stratigraphic relationships, and stratigraphic correlation. (Lec. 3, Lab. 2) Pre: 103, 104 and 106, or 105 and 106, or permission of instructor. Boothroyd

2) CHANGE: Prerequisite for GEL 425:

GEL 425 Principles of Geochemistry 1, 3  
Pre: 320, CHM 112, 114 (may be taken concurrently) or permission of instructor.

A. 1. b. Department of Microbiology

CHANGE: Number of MIC 401 to MIC 411 (401).

c. Department of Zoology

CHANGE: Prerequisite for ZOO 466:

ZOO 466 Vertebrate Biology 11, 3  
Pre: 262 and 321 recommended.

2. College of Business Administration

Department of Finance and Insurance\*

Finance

CHANGE: Title of FIN 440 to "Portfolio Theory and Management."

B. Curricular Matters Submitted to the Faculty Senate for Confirmation:

1. College of Arts and Sciences

a. Department of Art

1) ADD: The following courses:

a) ART 461 Topics in Methods, Theory and Criticism 11, 3  
Art history methods or selected topics in the theory and criticism of art. Topics to be announced. 1977: Theory and Criticism of Contemporary Art (Lec. 3) Pre: Permission of Department. May be repeated once with permission of instructor. Staff

b) ART 480 Advanced Topics in European Art 1, 3  
Consideration of the history of European art through analysis of selected periods or themes. Topics to be announced. (Lec. 3) Pre: Permission of department. May be repeated once with permission of instructor. Staff

c) ART 484 Advanced Topics in Architectural History 11, 3  
Consideration of the history of architecture and city planning through analysis of selected themes or periods. Topics to be announced (Lec. 3) Pre: Permission of department. May be repeated once with permission of instructor. Staff

2) CHANGE: Description, prerequisite and credit options for the following courses:

a) ART 403, 404 Studio-Seminar I and II 1 and 11, 3 each  
Assigned visual investigations and independent projects under guidance of instructors. Periodic critiques and discussions of work of all participants. (Studio 6) Pre: 12 credits in studio for 403; 403 for 404. Staff

\* Approved by the Faculty Senate Curricular Affairs Committee on January 30, 1976.

B. 1. a. 2) b) ART 405, 406 Studio-Seminar III and IV I and II, 3 each  
Intensive self-directed work under guidance of instructors. Periodic critiques and discussions of work of all participants. (Studio 6) Pre: 24 credits in studio for 405; 405 for 406. Staff

b. Department of Geology

1) CHANGE: Number and level for GEL 470 to GEL 370 (470).

2) CHANGE: Number, level and prerequisite for GEL 430:

GEL 330 (430) Petrology 11, 4  
Pre: CHM 104 or 112, GEL 320 or permission of instructor.

3) CHANGE: Number, level, description and contact hours for GEL 420:

GEL 320 (420) Mineralogy 1, 4  
Crystallography, physical and optical properties of minerals as related to crystal structure and composition. Laboratory: Crystal morphology; hand sample and microscopic identification of the geologically most important minerals. (Lec. 2, Lab. 4) Pre: 103, or 105, and 106, PHY 112 or 214, and CHM 101 or 103, or permission of instructor. Hermes

4) DELETE: GEL 421 Optical Mineralogy 11, 4

c. Department of Microbiology

CROSS-LIST: The following courses with the department of Biochemistry and Biophysics:

a) BCP 401 as BCP 401 (or MIC 401) Quantitative Cell Culture 1, 3

b) BCP 403 as BCP 403 (or MIC 403) Introduction to Electron Microscopy 1, 2

d. Department of Zoology

CHANGE: Number, level and prerequisite for ZOO 468:

ZOO 565 (468) Mammalogy 11, 3  
Pre: 262 and 321 or permission of instructor.

2. College of Pharmacy

Pharmacy Administration

1) CHANGE: Number and level for PAD 451 to PAD 349 (451).

2) CHANGE: Credits and delete (Lab. 2) for PAD 406:

PAD 406 Pharmacy Retailing 11, 3  
(Lec. 3) In alternate years.



B. 2. 3) CHANGE: Level, number and prerequisite for PAD 580:

PAD 480 (580) Prepaid Drug Plans  
Pre: Permission of Department.

1, 3

3. College of Resource Development

a. Department of Animal Science

CHANGE: Credits and contact hours for ASC 441:

ASC 441 Food Analysis  
(Lec. 1, Lab. 6)

1, 4

b. Department of Plant Pathology - Entomology

ADD: PLP 443 Plant Disease Laboratory  
Laboratory and field diagnosis of turf diseases and  
diseases of trees and ornamental shrubs. This course  
May only be taken concurrently with 442. (Lab. 2)  
Jackson

1, 1