1970

61st Report of the Curricular Affairs Committee

University of Rhode Island Faculty Senate

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UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

TO: President Werner A. Baum

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled 61st 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 19, 1970.

4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Trustees, 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 9, 1970, 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 Trustees for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Trustees, it will not become effective until approved by the Board.

March 20, 1970
(signed)
Chairman of the Faculty Senate

ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned. Subject to B/T action re: Departmental Issues in College of Business Development.


3. (If approved) In my opinion, transmittal to the Board of Trustees is not necessary.

March 28, 1970
(signed)
President

Form approved 11/65 (OVER)
ALTER-native ENDORSEMENT 1.

TO: Chairman of the Board of Trustees.

FROM: The University President

1. Forwarded.

2. Approved.

_________________________ (date) ____________________________ /s/ President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

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

1. Forwarded.

_________________________ (date) ____________________________ /s/ (Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

1. Forwarded from the Chairman of the Board of Trustees.

_________________________ (date) ____________________________ /s/ President

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

_________________________ (date) ____________________________ /s/ Chairman of the Faculty Senate
Addendum to the Sixty-first Report
of the
Faculty Senate Curricular Affairs Committee

March 16, 1970

The FSCAC met on March 12, 1970 and considered the items listed under section III of its Sixty-first Report. The Committee's recommendations (underlined) on each item are indicated below:

III. A. a. Add (new) Education 901. Action deferred pending receipt of additional supporting information.

B. 1. Delete restriction "MBA students only". Approval recommended.
   3. Delete Marketing Mgt. 203, 244. Approval recommended.
   4. Creation of two new departments. At the request of those who made the original proposal, the FSCAC reconsidered its earlier action in modifying one of the new departmental names and recommends approval of the following:
      a. Department of Management Science
      b. Department of Organizational Management, Industrial Relations, and Law.

   2. Add (new) EE 514, 515, 516, 545.
      Action deferred pending receipt of details to clarify expected enrollment vs. "graduate standing" indicated by proposed numbers.
      b. Delete IE 1, 2, 428(128), 429(129) Approval recommended.
      c. Authorize revised IE curriculum with necessary adjustments to meet University requirements (Gen'l. Ed. and free electives). Approval recommended.

   2. Delete Nurs. 300, 310, 360. Approval recommended.
   3. Reduce graduation credits to 134. Approval recommended.


F. 1. a. Add (new) AS 414. Approval recommended.
       b. Delete AS 411. Approval recommended.
       c. Change credits to 4 for AS 1. Approval recommended.
   2. Name change to Resource Economics. Approval recommended.
   3. Name change to Forest and Wildlife Management. Approval recommended.
Faculty Senate Curricular Affairs Committee Sixty-first Report (full).

At meetings on February 26 and March 6, 1970, the Faculty Senate Curricular Affairs Committee considered the following matters which are now submitted to the Faculty Senate for information or confirmation as indicated.

I. Matters of Information (for further details consult the chairman of the department concerned).

A. College of Arts and Sciences.

1. Department of Art. Change titles, descriptions, and/or prerequisites for 101(1), 102(2), 231(31), 233(33), 252(52), 263(163), 266(166), 332(32), and 357(157) to read:

   101(1) Two-dimensional Studio Semesters I and II, 3 credits Exploration of principles of visual organization relating primarily to formulations on the two-dimensional surface by means of fundamental studies and assignments in studio techniques. (Studio 6). Staff

   102(2) Three-dimensional Studio Semesters I and II, 3 credits Introductory studies emphasizing problems in three-dimensional organization. (Studio 6). Staff

   231(31) Change prerequisite to Art 101(1) or permission of department.

   233(33) Change prerequisite to Art 101(1) or permission of department.

   252(52) Delete prerequisite, change instructor to Staff.

   263(163) Delete prerequisite.

   266(166) Delete prerequisite.

   332(32) Change prerequisite to Art 231(31), 233(33), or permission of department.

   357(157) Change title to Italian Renaissance.

2. Department of Computer Science and Experimental Statistics.

Change catalog descriptions for ES 411(111) and ES 412(112) to read:

412(112) Statistical Methods in Research II
II, 3

b. Change prerequisite for C.S. 410(110) from 6 credits of mathematics to: Math. 142(42).

3. Departments of English and Languages.

Authorize a new catalog category,

Literature in English Translation, to include the following course titles (see Statistics offerings for style) and clarifying statements:

Literature in English Translation

The following courses offered within the Department of Languages may not be used for major credit in either Languages or English:

Classics

391(1) Masterpieces of Greek Literature
392(2) Masterpieces of Roman Literature
393(3) Literature of Greek Mythology

French

391, 392(97,98) Survey of French Literature

German

391, 392(97,98) Masterpieces of German Literature

Russian

391, 392(97,98) Masterpieces of Russian Literature

Spanish

391, 392(97,98) Masterpieces of Spanish Literature

The following are available for major credit in English but are not available for major credit in Languages:

English

261,262(43,44) World Literature
361,362(35,36) The European Novel
461(153) The Classic Epic
462(154) The Medieval and Modern Epic
465(137) Greek and Roman Drama
561(232) Modern European Novel
4. Department of Speech. Change prerequisite for Speech 11 to read: Registration by examination only; schedule will be posted prior to registration.

B. College of Engineering.

1. Department of Electrical Engineering. Change title and description of 505(205) and 506(206) to read:

EE 505(205) (or CS 505) Design of Digital Circuits I, 3
Analytical development of methods for digital circuit design. Computer arithmetic, control, and memory elements. Design of sequence generators. Special purpose digital circuits for performing numerical operations such as integration, smoothing, and filtering. (Lec. 3) Tufts

EE 506(206) Digital Signal Processing II, 3
Digital representations of signals and noise, digital filtering and spectral analysis, design of digital circuits for signal parameter estimation and signal detection. (Lec. 3) Tufts

2. Department of Mechanical Engineering and Applied Mechanics.

Change prerequisite for ME 354(54) Fluid Mechanics to read: Prerequisite: ME 263(63) and Math 244(44) or Math 335(135) or Math 337(137).

Change description of ME 572(272) to read:

572(272) Theory of Elasticity II, 3
Advanced theory of elasticity of isotropic and anisotropic bodies; plane stress and plane strain analysis via classical and Muskhelishvili's method, three dimensional applications in torsion, bending, and semi-infinite solids. Prerequisite: ME 550(250) or permission of instructor. Kim

C. College of Nursing. Change titles, description, lecture-laboratory distribution and/or prerequisite for 230(29), 240(30), 330(40), 340(41) 320(36), and 350(42). (Note: several of the courses are condensed into one-half semesters, therefore credits are based upon 1/2 the lecture hours shown and one credit is allowed for 6 lab. hours).

1. Change title, lecture-laboratory distribution and prerequisites of Nurs. 230(29) to read:

Nurs. 230(29) Care of the Adult I 6 credits
(Lec. 10, Lab. 6; one-half semester)
Prerequisite: Nurs. 220, or R.W. status and Pharm. 225. Staff

2. Change title, description, lecture-laboratory distribution of Nurs. 240(30) to read:

240(30) Care of the Adult II 6 credits
Continuation of Nurs. 230. (Lec. 8, Lab. 12; one-half semester. Staff
3. Change title, course description, lecture-laboratory distribution and prerequisites of Nurs. 330(40) to read:

Nurs. 330(40) Care of the Adult III 7 credits
Opportunity to plan and implement care for an adult patient or group of patients with increased complexity of nursing needs. Development of concepts and trends in the care of patients with long-term needs. Critical thinking is encouraged through weekly seminars. (Lec. 10, Lab. 12; one-half semester). Prerequisite: Nurs. 240 and Pharm. 226. Staff

4. Change description, lecture-laboratory distribution and prerequisites of Nurs. 340(41) to read:

340(41) Senior Nursing Practice 7 credits
Emphasis on the care of adults with complex nursing problems and the leadership role of the nurse. Basic concepts of the role of nursing in community preparedness for disaster. (Lec. 9, Lab. 15; one-half semester). Prerequisite: Nurs. 330 and senior standing. Staff

5. Change lecture-laboratory credit distribution and prerequisites of Nurs. 320(36) to read:

320(36) Public Health and Public Health Nursing 7 credits
(Lec. 8, Lab. 18; one-half semester).
Prerequisite: Nurs. 301, and Nurs. 302.

6. Change semester offered and course description of Nurs. 350(42) to read:

Discussion of major nursing and health issues. Emphasis is placed upon the professional nurse's responsibility to the profession and to the community in which she lives. (Lec. 2) Prerequisite: Senior standing. Tate

D. College of Pharmacy.

1. Department of Pharmaceutical Chemistry.

Change prerequisite for Pharm. Chem. 643(343) to read:
Prerequisite: Chem. 422(122) and permission of instructor.

E. College of Resource Development.

1. Department of Agronomy and Mechanized Agriculture

a. Delete reference to alternate year offering for:

Agronomy 351(151) Soil and Water Conservation
Agronomy 561(261) Weed Science

b. Change semester offered to II for Mech. Ag. 222(21) Power Units
2. Department of Animal Science
   a. Change semester offered for A.S. 111(11) Feeds and Feeding from II to I (fall).
   b. Change year offered for A.S. 412(112) Animal Nutrition by deleting reference to alternate years (will be offered every year).

II. Matters Requiring Confirmation by the Faculty Senate. Course numbers in parentheses will not be used for registration purposes after Sept., 1970.

A. Committee statement concerning courses numbered at the 400-level.

1. After lengthy debate, the FSCAC voted to interpret the use and characteristics of the 400-level course number category in the following manner:

   When considering the use of "400" numbers, serious consideration should be given to the place of such courses in the curriculum in which they are used. While the characteristics (Manual, sect. 8.42.10) of such courses state that they "May be taken for graduate credit," other descriptions of this level are interpreted to mean that this category may also be used for certain advanced undergraduate courses for which graduate credit is not intended. To avoid confusion, therefore, 400-level courses which should not be used in advanced degree programs should be clearly indicated in the course numbered at the 400-level which should not ordinarily be used to fulfill the requirement of advanced degree programs will be clearly designated "not for graduate degree program credit."

2. The following courses have been approved for renumbering at the 400-level, for graduate credit (Grad. #65-67).

French: 431(51), 432(52), 441(55), 442(56), 451(81), 452(82), 462(85), 461(86), 463(87), 464(88)
German: 441(55), 442(56), 451(61), 452(62)
Italian: 431(51), 442(56), 451(61), 452(62)
Russian: 460(83), 461(84)
Spanish: 430(53), 431(54), 450(63), 451(64), 461(81), 462(82), 471(91), 472(92)
Chemical Engineering: 425(25), 464(64)
Electrical Engineering: 491(71), 492(72), 493(73)
Industrial Engineering: 422(22)
Marketing Management: 443(43), 462(62), 464(64)
Physical Education for Women: 410W(25W), 495W(95W)
B. College of Arts and Sciences.

1. Department of Art.

Revise the Bachelor of Fine Arts degree requirements (1969 Catalog, p. 53) to read:

All freshmen students planning to major in art will be registered initially in the Bachelor of Arts program. Those students who demonstrate, during the freshman year, the special ability in art expected of Fine Arts registrants, and whose portfolios have been reviewed and approved by the Department of Art, will be permitted to transfer to the Bachelor of Fine Arts program. Development of the freshman program will be under the supervision of the Department of Art advisers.

Students admitted to the B.F.A. program in Art must complete a minimum of 48 credits in Art.

Studio courses required of all majors include:*  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101(1)</td>
<td>Two-dimensional Studio</td>
<td>3</td>
</tr>
<tr>
<td>Art 102(2)</td>
<td>Three-dimensional Studio</td>
<td>3</td>
</tr>
<tr>
<td>Art 207(7)</td>
<td>Drawing</td>
<td>3</td>
</tr>
<tr>
<td>Art 208(8)</td>
<td>Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

* Outstanding entering students may, upon recommendation of their adviser and approval of the Art faculty, be excused from any or all of the courses in this section and substitute upper level courses for these credits. Normally, however, most students will be required to take these courses.

An additional 6-15 credits must be selected from studio courses numbered below 400.

An additional 12-21 credits must be selected from studio courses numbered above 400 with at least six credits in Art 403 and/or 404 and at least six credits in Art 405, and/or 406. (Courses with variable credit loads must be elected in three credit multiples. Thus, a 3-9 credit course may not be enrolled in for 4 credits, but may be elected for 3, 6, or 9 credits only).

An additional 9 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.

Student work accomplished as part of a course may, with the consent of the student, be retained by the Art Department for teaching or exhibition purposes. When this work is no longer useful to the Department, the student will be notified to reclaim the work within 60 days. Student works selected by the faculty of the Art Department for inclusion in the permanent collection of the University may be purchased through negotiations with the student.
This program will apply to new students entering in the fall of 1970. Students enrolled prior to that date may use the electives remaining after completion of the general education and major requirements to increase their art credits without increasing total graduation requirements.

Distribution of credits:

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>45</td>
</tr>
<tr>
<td>Major Credits:</td>
<td></td>
</tr>
<tr>
<td>Studio</td>
<td>39</td>
</tr>
<tr>
<td>Art History</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>31</td>
</tr>
<tr>
<td>Total Required Credits</td>
<td>124</td>
</tr>
</tbody>
</table>

b. Add (new), contingent upon approval of above curriculum revisions:

1) Art 260( ) Short History of Architecture II, 3
   A study of building styles on a roughly chronological basis emphasizing structure as an outgrowth of climate, materials and technology. (lec. 3) In alternate years, next offered 1970-71. Ames

2) Art 264( ) History of Decorative Arts I, 3
   A study of pottery, textiles, silver and furniture as universal arts, and as seen by consumers. (Lec. 3). In alternate years, next offered 1971-72. Ames

3) Art 272( ) Pre-Columbian Art II, 3
   An introduction to the Art of Mexico, Peru, Yucatan, Central America, and the Caribbean, tracing the development of Art in middle America from the second millennium to the Spanish Conquest. (Lec. 3) In alternate years, next offered 1970-71. Killen

4) Art 273( ) African Art I, 3
   An introduction to the art of the Western Congo, Lower Congo, Bushongo, Eastern Congo, Gabon, Southern Nigeria, the Sudan, Guinea Coast, Nigeria, Benin, Ife and the Cameroons. (Lec. 3) In alternate years, next offered 1970-71. Killen

5) Art 353( ) Art of Egypt & Mesopotamia I, 3
   Art from 3000 B.C. to Alexander the Great in Egypt and the empires of the Near East. Consideration of archaeological work and art historical interpretation. (Lec. 3) Prerequisite: Art 251(251), or permission of the Department. In alternate years, next offered 1970-71. Kampen

6) Art 355( ) Early Christian and Byzantine I, 3
   Transformation of late Antique into Judaeo-Christian art, with emphasis of painting and mosaic. Also, sculpture and architecture will be discussed. Use of pagan styles and motifs in Jewish and Christian religious context. (Lec. 3) Prerequisite: Art 251 or permission of the Department. In alternate years, next offered 1971-72. Kampen
7) Art 358( ) Northern Renaissance I, 3
A study of developments in French, Flemish and German Art of the 15th and 16th centuries. (Lec. 3) Prerequisite: Art 52(252) or permission of the Department. In alternate years, next offered 1971-72. Kampen

8) Art 375( ) 19th Century European Art Outside Franch I, 3
An introduction to Scandinavian, German, Austrian, English, Netherlands and Italian painting and sculpture from the Nazarenes, Canova and Thorvaldsen through the Chelsea group, Klimt and Meunier. (Lec. 3) Prerequisite: Art 52(252) or permission of the Department. In alternate years, next offered 1970-71. Ames

9) Art 376( ) Drawing and Drawings II, 3
A study of the great draftsmen in the Western world from the 14th century to the 20th; emphasis will be put on the interaction of purpose, style, and drawing materials. (Lec. 3) Prerequisite: Art 252 or permission of the Department. In alternate years, next offered 1971-72. Ames

10) Art 403( ) Studio-Seminar I I and II, 3-9 credits
Problems in visual structures developed by the student in consultation with course instructors. Weekly critiques and discussions related to studio work and assigned topics. Intended for third year art majors. (Studio 6-18). Prerequisite: permission of department. Staff team (Grad. #68)

11) Art 404( ) Studio-Seminar II I and II, 3-9 credits
Continuation of Art 403. Intended for third year art majors. (Studio 6-18) Prerequisite: permission of department. Staff team (Grad. #68).

12) Art 405( ) Studio-Seminar III I and II, 3-9 credits
Intensive independent work conducted under the guidance of a project adviser selected by the student. Periodic critiques and discussions related to work of all participants in the course. Intended for fourth year art majors. (Studio 6-18). Prerequisite: permission of department. Staff (Grad. #68).

13) Art 406( ) Studio-Seminar IV I and II, 3-9 credits
Continuation of Art 405. Intended for fourth year art majors. (Studio 6-18) Prerequisite: permission of department.

14) Art 462( ) Modern Art Seminar--Art Since 1945 II, 3
Reports on Contemporary work and its relation to earlier movements. (Lec. 3) Prerequisite: Art 262 or permission of department. Kampen (Grad. #68)

15) Art 501 Graduate Studio Seminar I I & II, 3,6,9, or 12 crs.
Intensive independent studio work under the guidance of appropriate advisers. Periodic critiques and discussions related to work of all participants in the course. (Studio 6-24). Prerequisite: Permission of the Department. Staff (Grad. #68)
16) Art 502 Graduate Studio Seminar II I & II, 3, 6, 9, or 12 crs.
Continuation of Art 501. (Studio 6-24). Prerequisite:
Permission of the Department. Staff (Grad. #68)

c. Delete, contingent upon the approval of Art 403-406: (all numbers
of deleted courses are old numbers) (Grad. #68)

   Art (123), (124) Advanced Painting I and II
   Art (129), (130) Painting -- Senior Projects
   Art (139), (140) Printmaking -- Senior projects
   Art (143), (144) Intermediate Sculpture
   Art (149), (150) Sculpture -- Senior Projects

2. Department of Bacteriology and Biophysics
a. Add (new)

   Bacteriology 695, 696 Graduate Research Seminar I & II, 1 cr. ea.
   Reports of research in progress or completed. (Lec. 1) Required
   of all graduate students in Bacteriology. Staff (Grad. #66)

3. Department of Chemistry
a. Add (new)

   518(218) Radiochemistry Semester II, 3 credits
   Theory and principles of nuclear science as applied to the
   various fields of chemistry. Radioactivity, radiation de-
   tection and measurement, preparation and separation of radia-
   nuclides, emphasis on solution of chemical and environmental
   research problems with the techniques of nuclear chemistry.
   (Lec. 3) Prerequisite: Chem. 332(32), Physics 4 or per-
   mission of the instructor. Fasching (Grad. #66)

4. Department of Economics.
a. Add (new)

   566(266) Economic Planning and Public Policy in
   Developing Nations Semester II, 3 credits
   Resource and financial planning in public and private sectors
   of developing nations with emphasis on planning tools, allo-
   cation of domestic and foreign resources, and on national
   economic policies. (Lec. 3) Prerequisites: Economics 127
   and 163, or 164 (old numbers), or its equivalent, or per-
   mission of instructor. Prakash (Grad. #66)

5. Department of Education
a. Add (new)

   526(329) Teaching the Newer Grammars Semester I, 3 credits
   The course will emphasize the implications of the newer
   grammars for the teaching of English and will include a review
   of the history of grammar, traditional grammar, and, as needed
   the linguistic theory necessary to an understanding of the newer
   grammars. Prerequisites: Graduate standing and/or certifi-
   cation to teach English. (Lec. 3) DiBiasio (Grad. #67)
527(330) Teaching English as a Second Language Term I, 3
An overview of theories and approaches to teaching English to students whose native language is not English. Emphasis will be on the application of linguistic principles in the preparation of instructional materials. Prerequisites: Graduate standing or certification to teach English. (Lec. 3) DiBiasio (Grad. #67)
(Offered 1970 Summer Session only, Term I)

Implementation of the following is contingent upon subsequent approval of a program leading to the Certificate for Advanced Graduate Study (CAGS):

Education 694(394) Organization and Supervision of Reading Programs Semester II, 3 credits
The various roles of the reading specialist in relation to the other line-staff personnel will be discussed. Problems concerning the orientation of new teachers, reading research and development, in-service programs, and community support will be explored. (Lec. 3) Prerequisites: Educ. 321 and 322 (old numbering system). (Grad. #66)

6. Department of English

a. Add (new)

1) (101) The American Writer and the Negro Term I, 3 credits
General survey of writings by and about Negros in American Literature. Study of representative works providing an aesthetic and social view of the American Negro. (Lec. 3) Nilson (as 1970 only) (Grad. #67)

2) (104) The Ballad Term II, 3 credits
Study of the Western European tradition, with particular emphasis on the development of that tradition in Britain and America. Traditional, broadside and native American ballad texts will be analyzed; the processes of variation, rationalization, and localization studied; the relationships between the folk ballad and the literary ballad treated. Musical knowledge is not a prerequisite, although taped and recorded illustrations will be used. Scheduled 7:30-8:45. Coffin (as 1970 only) (Grad. #67)

3) 231( ) Literature of the Bible Semester II, 3 credits
Introduction to poetry and narrative in the Old Testament and the Apocrypha, primarily in the Authorized ("King James") Version. (Lec. 3) Sorlien

4) 345( ) American Negro Literature: 1920 to the Present Semesters I and II, 3 credits
Intensive study of major contributions to American Literature by Negroes from the Harlem Renaissance of the 1920's to the present. Study of representative works in poetry, drama, fiction and essays (Lec. 3) Donnelly
5) 473(192) Shakespeare (a second-semester course with description combined with that of currently listed 472(191) as follows):

472(191), 473(192) Shakespeare I and II, 3 crs. each
English 472(191) : Introduction to plays of Shakespeare as living theatrical productions. One or more examples from each main type. Character delineation, plot construction, and stagecraft devices emphasized. English 473(192): A second course in the study of Shakespeare. Critical study of plays not included in English 472(191) (Lec. 3) Prerequisite: Junior standing. English 472(191) not prerequisite for English 473(192). Smith & Barker (Grad. #67)

6) 475(186) Major English Authors of the Eighteenth Century Semesters I or II, 3 credits
Intensive study of the work of one or two outstanding English authors of the eighteenth century: Defoe, Swift, Fielding, Pope, Johnson, Blake, and Boswell. (Lec. 3) Prerequisites: Junior standing, or permission of the Department. (Grad. #67)

7) 553( ) Studies in Victorian Literature I or II, 3 credits
Studies of specific literary themes, genres, significant literary-historical developments, or particular writers. (Lec. 3) Goldman and Seigel (Grad. #67)

8) 564( ) Modern Poets Semesters I or II, 3 credits
A study of one or two major modern British or American poets such as Yeats, Eliot, Pound, Frost, Stevens, Williams, Auden, Thomas, Crane, Lowell, and others. In addition to the study in depth of a poet, some semesters may be devoted to a school or small group of poets, such as The Imagists or Objectivists, the Auden-MacNeice-Spender group, The Fugitive Poets, etc. (Lec. 3) Goldman (Grad. #67)

b. Change English 1 and 2 descriptions in the following manner to clarify the current sectioning practices in the department:

1) 110(1) Composition Semesters I and II, 3 credits
Emphasizes correctness in writing and clear presentation of ideas. Reading exercises in composition, and composition of essays. (Lec. 3) Prerequisite for all other English courses. May not be used for credit toward a major or minor in English. Staff

2) 112(1) Composition (Foreign) Semesters I and II, 3 credits
Same as English 110, but restricted to students whose mother tongue is not English and who have need of special and closely supervised assistance in expressing themselves in English. Admission upon recommendation of the Department. Roberta Tutt
3) 113(1) Composition (Fisheries) Semester I, 3 credits
Same as English 110. Admission restricted to students in the special two-year fisheries program upon recommendation by the College of Resource Development. Staff

4) 120(2) Literature and Composition I and II, 3 credits
Continuation of English 110. Extensive reading in various forms of writing. Training in appreciation and criticism of good literature. Regular written criticism and literary exercises. (Lec. 3) Prerequisite for all other English courses except English 110. Staff

5) 122(2) Literature and Composition (Foreign I & II, 3 credits)
Same as English 120, but restricted to students whose mother tongue is not English and who have need of special and closely supervised assistance in expressing themselves in English. Admission upon recommendation of the Department. Students enrolled in English 112 will be assumed to continue in English 122 unless otherwise recommended by the instructor. Roberta Tutt

Comment: The above changes merely formalize a structure which has proved beneficial to the separated students. It is felt that treating the separate sections as separate courses is reasonable, although the course content is similar, since the groups have distinctly different problems and levels of achievement.

7. Department of Geography.

a. Add (now)

422(122) Advanced Cartography Semester II, 3 credits
Elementary photogrammetry, uncontrolled mosaics, and photo interpretation with an emphasis on the use of aerial photographs to supplement and simplify field research. Techniques for the automated graphic display of quantitative geographic information on the printer and increment plotter; interpolation algorithms; introduction to automated map interpretation. (Lec. 2, Lab. 3) Prerequisite: Geog. 121(421) or 6 credits in computer science, or permission of the instructor. Monmonier (Grad. #66)

b. Change title of 421(121) to Introductory Cartography

c. Change credits and lecture-laboratory distribution of Earth Science 101(1)

1) Change credits from 3 to 4
2) Change lec.-lab. to (Lec. 3, Lab. 2)

d. Change lec.-lab. distribution of Geog. 403(103) to read: (Lec. 3)

e. Change lec.-lab. distribution of Geog. 103(3) to read: (Lec. 2, Rec. 1)

f. Change title of Geog. 591, 592 (291, 292) to read: Directed Study or Research
8. Department of History

a. Add (new)

455(164) American Maritime History Term 2, 3 credits
A survey of the maritime development of the United States from the founding of the colonies to the present time. Emphasis will be placed upon the growth of American merchant shipping and naval power and their relationships to American political, economic, military and cultural history. (Lec. 3) Prerequisite: History 13 and 14, or equivalent. Crandall (Summer Session only) (Grad. #67)

9. Department of Languages

a. Add (new)

1) French 402 French Phonetics Semester II, 3 credits
Introduction to articulatory phonetics and to phonetic notation; practical work in phonetic transcription. Rudiments of recognizing and reproducing French intonation patterns. Practical work in the language laboratory in phonetics and intonation. (Lec. 3) Prerequisite: French 11 or permission of the Department. Given in alternate years; next offered in 1970-71. Rogers (Grad. #67)

2) French 472 Black and Arab French Theater II, 3 credits
French-language plays by authors of the Maghrib, the sub-Saharan, and the black diaspora. (Lec. 3) Prerequisites: French 25 or 26 or permission of the Department. Waters (Grad. #66)

3) Spanish 594 Graduate Seminar Semesters I & II, 3 credits
Research and analysis of a particular author or problem of Spanish Hispanic-American Literature. Staff (Grad. #66).

C. College of Home Economics

1. Department of Home Management

a. Add (new)

401 Home Management Problems of Deprived Families II, 3 credits
Seminar in understanding and assisting families faced with managerial problems due to social and economic deprivation. Some field experience provided. (Lec. 3) Prerequisite: HM 320 and Soc. 202(1) or permission of department. In alternate years, next offered 1970-71. Moore (Grad. #67)

III. Additional Matters Requiring Confirmation by the Faculty Senate. The matters were considered at a continuation of FSCAC meeting #77 held on March 12, 1970. Committee recommendations on these items will be circulated as an addendum.
A. College of Arts and Sciences

1. Department of Education
   a. Add (new)
      
      901 Workshop in Health Education for Elementary School Teachers 4 credits
      This workshop is designed for elementary classroom teachers. Emphasis will be placed on developing, conducting and evaluating health education programs in elementary schools. Sessions will focus on philosophy, principles and concepts of health education. The workshop will be directed by Dr. Marjorie Young.
      Scheduled 9-12 a.m. and 1-4 p.m., June 22 to July 3. (Grad. #66).

B. College of Business Administration

1. Delete the restrictive phrase "MBA students only" from all courses so marked.

2. Department of Management (Quantitative Business Analysis)
   a. Add (new)
      
      1) 683(391) Business Decision Theory Semester I, 3 credits
      A statistical analysis of management decision making under uncertainty. Bayesian statistical inference and the concept of subjective probability are stressed. Theory of games and comparison between Bayesian methods and classical statistics are presented. Emphasis on applications to business problems in which sample studies are feasible. (Lec. 3)
      Prerequisite: Statistics 300, Q.B.A. 300, and M.B.A. candidate. Shih (Grad. #66)

      2) 684(392) Advanced Programming Methods in Management Decisions Semester II, 3 credits
      An introduction to nonlinear and dynamic programming. Emphasis on application of modern mathematical optimization techniques in single-stage and multiple-stage management decision problems. Topics covered include Management Applications of the Kuhn-Tucker Theorem, quadratic programming, stochastic programming, separable convex programming and dynamic programming. (Lec. 3).
      Prerequisite: Q.B.A. 300 and Q.B.A. 361 and M.B.A. candidate. Gross (Grad. #66)

3. Department of Marketing Management
   a. Delete:
      
      203, 204 Marketing and Advertising Research I and II (Grad. #67)
4. Authorize the division of the Department of Management into two new departments to be designated:

   a. **Department of Management Science**

   b. **Department of Organizational Management and Industrial Relations**.

   Comment: The new departments will be composed of eight presently employed faculty members each. Beyond the naming of a new departmental chairman, no new positions or additional budgeting expenses are anticipated.

C. College of Engineering.

1. Department of Chemical Engineering.

   a. Add (new) (Grad. #67)

   1) **530 Polymer Chemistry**  I, 3
      Polymer structure, molecular forces, glass and crystalline transitions, solution properties, polymerization kinetics, molecular weight distribution, fractionation, viscoelastic properties and transport processes. (Lec. 3) Prerequisite: Chem. 22 and Chem. 32 or permission of instructor. Barnett

   2) **531 Polymer Engineering**  II, 3
      Polymer processing and mechanical properties of polymers (Lec. 3) Prerequisite: Ch.E. 520 and Ch.E. 42 or 44 or permission of instructor. Barnett

   3) **640 Transport Phenomena I**  I, 3
      Analysis of transport processes in fluids with emphasis on diffusion of matter. (Lec. 3) Prerequisite: Math 44 and Ch.E. 43 or permission of the instructor. Barnett

   4) **641 Transport Phenomena II**  II, 3
      Interphase transfer, turbulent transport processes and boundary layer theory, with application to fixed and fluid bed processes, biochemical, biomedical and electrochemical systems. (Lec. 3) Prerequisite: Ch.E. 640 Barnett

2. Department of Electrical Engineering

   a. Add (new) (Grad. #68)

   **EE 514 Microwave Electronics**  Semester I or II, 3 credits
   Electronic engineering at microwave frequencies, microwave circuit theory, impedance transformation and matching, passive microwave devices, microwave tubes, semiconductor microwave electronics, microwave masers, parametric amplifiers. (Lec. 3) Prerequisite: EE 125 concurrently or permission of instructor. Daly

   **EE 515 Quantum Electronics**  Semester I or II, 3 credits
   Laser engineering and applications, interaction of radiation with atoms, optical resonators, electro-optic modulation, harmonic generation, parametric oscillation and frequency conversion, noise in laser amplifiers and oscillators. (Lec. 3) Prerequisite: Phys. 71 Daly
EE 516  Planetary Electrodynamics  Semester I or II, 3 credits
An introduction on the senior-first year graduate level to the
description and theory of natural electric and magnetic pheno-
mena on the earth and in the solar system such as lightning,
natural geomagnetic and interplanetary magnetic fields, origin
and properties of inospheres, the "Solar Wind" and natural
radio noise.  (Lec. 3) Prerequisite: EE 211(511) or Physics
261(562).  Polk

EE 545 Optimization and Variational Problems in
Electrical Engineering  I or II, 3 credits
Application of variational and approximation techniques to
boundary value field problems, extremal control of dynamic
systems, and optimization in communication theory. Performance
criteria, Hamilton-Jacobi theory; moment, Ritz and Galerkin
methods; Weinstein and Bazly methods for determining the upper
and lower bounds of eigenvalues in engineering problems;
optimal filter theory. Prerequisite: EE 501(201) or 511(211)
or permission of instructor. Poularikas

3. Department of Industrial Engineering.

a. Add (new)

1)  IE 220, 221 Industrial Engineering I, II I & II, 3 each
Introduction to Industrial Engineering. A study of ele-
mentary topics in production control, inventory control,
forecasting, motion and time study, methods analysis. An
introduction to elementary operations research and quanti-
tative techniques. Depreciation, obsolescence, time value
of money and other topics in engineering economics related
to the selection and replacement of capital equipment and
evaluation of project proposals. (Lec. 3 each) Prerequi-
site: Math 42. For IE 20: Credit or registration in
CS 110. For IE 21: Credit in IE 20; credit or registration
in IE 111. Staff

2)  IE 350, 351 Industrial Engineering Systems
Design I, II I and II, 3 each
Design and analysis of systems of production facilities and
materials handling. Compensation, production and inventory
control systems. Applications of and case problems in
operations research, probability and statistics, engineering
economy and other foundation areas. An introduction to
simulation. Design and analysis of industrial engineering
systems. (Lec. 3 each). Prerequisite: for IE 150: IE 21,
IE 112, IE 132. For IE 151: IE 150, IE 133.

3)  IE 430 Design and Analysis of
Compensation Systems II, 3
Wage and employment theory, job evaluation, motivational
systems, supplemental payments; labor force loading, level-
ing and scheduling. An analysis of the influence of unions
on labor price theory. (Lec. 3) Prerequisite: Senior
standing. James (Grad. #68).
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a) Contingent upon approval of IE 430, delete IE 428(128) and 429(129) Design and Analysis of Compensation systems I and II.

4) IE 440 Materials Processing and Metrology II, 3 Analyses of material behavior characteristics under dynamic loading conditions for tools and cutting materials. Thermal analyses, mechanics of machine systems, power and efficiency. A study of processing control systems such as digital control, analog control, and numerical control. Design and analyses of systems of metrology. (Lec. 2, Lab. 3). Prerequisite: Ch.E. 137, CE 21. Stanislao (Grad. #68)

5) IE 513 Statistical Quality Control I, 3 Topics in statistical quality control systems. Study of single, multiple, and sequential sampling. Design and analysis of a wide variety of statistical control systems used in conjunction with discrete and continuous data, for several kinds of data emission. (Lec. 3) Prerequisite: IE 112 or equivalent. Nichols (Grad. #68)

6) IE 635 Response Surfaces and Evolutionary Operations II, 3 A study of methods for determining the response surface for multiple factors over a specified range and techniques for seeking an optimum. First and second order response surfaces. Rotatable second order designs. Central composite rotatable designs. Multi-variable EVOP programs and other topics in evolutionary operations. (Lec. 3) Prerequisite: IE 633 or equivalent. Lawing (Grad. #68)

b. Delete: IE 1 Introduction to Industrial Engineering  
IE 2 Methods Engineering  
IE 428(128) IE 429(129)

c. Authorize the revised Industrial Engineering Curriculum (sophomores through senior years) as proposed below:

### Sophomore

*New Course*

<table>
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<tr>
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<th>II</th>
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<tr>
<td>CS 110</td>
<td>Econ 23</td>
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<tr>
<td>EE 10</td>
<td>Economics</td>
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<tr>
<td>IE 20*</td>
<td>EE 20</td>
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<tr>
<td>Math 43</td>
<td>Elec Circ, Msmt &amp; Electronics</td>
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<tr>
<td>ME 63</td>
<td>IE 21*</td>
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<tr>
<td>Calculus</td>
<td>Ind Engr II</td>
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<tr>
<td>Dynamics</td>
<td>Math 115 Linear Alg or Math 171 Matrix Anal</td>
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or

Phys 23 Accus & Optics

15
### JUNIOR

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>IE 111</td>
<td>Engr Statis I</td>
<td>3</td>
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<tr>
<td>Math 137 or Adv Calc I or  Math 135</td>
<td>Real Anal I</td>
<td>3</td>
</tr>
<tr>
<td>ME 51</td>
<td>Thermodynamics</td>
<td>3</td>
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<tr>
<td>Phys 61 or Mod Phys or  Phys 71</td>
<td>Mod Phys I</td>
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### SENIOR

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<td>IE 133</td>
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<td>IE 150*</td>
<td>IE Sys Des I</td>
<td>3</td>
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<tr>
<td>ChE 137</td>
<td>Mats Sci</td>
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<td>Gen Ed Elec, Div C</td>
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<td>3</td>
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<tr>
<td>Professional Elective</td>
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**Total Credits (Incl. Freshman Year):** 124

4. Department of Mechanical Engineering and Applied Mechanics

a. Add (new)

ME 646 (or ChE 646) Radiation Heat Transfer  I or II, 3 credits
Radiant exchange between surfaces. Radiative properties of surfaces. Exchange among non-ideal surfaces. Gas-radiative exchange. Radiative exchange with volume emitters. Furnace design applications. (Lec. 3) Prerequisite: ME 545 (258) or ChE 644 (244) or permission of instructor. Brown (Grad. #68)

b. Delete: ME 271 Theory of Elasticity (Grad #68)

5. Department of Ocean Engineering

a. Add (new)

1) OE 512(213) Hydrodynamics of Floating and Submerged Bodies I  Semester I, 3 credits
This course will deal with hydrodynamic principles associated with floating and submerged bodies—resistance, propulsion, static and dynamic stability. (Lec. 3) Prerequisite: ME 155 or equivalent. Kowalski (Grad. #67)

2) OE 513(214) Hydrodynamics of Floating and Submerged Bodies II  Semester II, 3 credits
This course is a continuation of OE 213 and deals with the problems of maneuvering, control, and motions in waves. (Lec. 3) Prerequisite: OE 213 Kowalski  (Grad. #67)
3) OE 595 (or ME 531) Underwater Power Systems  I, 3
Low output power systems. Overall considerations appropriate to the determination of power requirements for underwater systems (Lec. 3) Prerequisite: ME 342(52), ME 448(158) or permission of instructor. Brown, Rose (Grad. #68)

4) OE 596 (or ME 532) Coastal Zone Power Plants II, 3
Overall systems consideration for coastal zone power plants. Consideration of factors such as political and legal problems, thermal pollution, and multi use of plants (aquaculture, etc.) (Lec. 3) Prerequisite: ME 342(52), ME 448(158), OE 201 or permission of instructor. Brown, Rose (Grad. #68)

D. College of Nursing

1. Add (new)

a. Nurs. 301(7) Maternal and Child Health I and II, 7
Emphasis upon family-centered health concepts and their inter-relationship with physiological, pathological, psychosocial and cultural influences on child growth and development and family functioning. (Lec. 7) Prerequisite: CF 200 or Psych 232; Pharm. 226 and Nurs. 240. Must be taken concurrently with Nurs. 302. Cumberland and staff

b. Nurs. 302(4) Maternal and Child Health Practicum I & II, 4
Utilization of family-centered health concepts in the application of nursing principles and techniques to maternal and child care in selected community agencies. (Lab. 12). Must be taken concurrently with Nurs. 301. S/U course. Cumberland ans staff

c. Nurs. 311(3) Mental Health and Psychiatric Nursing I & II, 3
Development of the basic knowledge and understanding necessary to the use of self as a therapeutic agent as related to mental health and illness. Application of content is made to all areas of nursing. (Lec. 6; offered twice per semester). Prerequisite: Nurs. 240; must be taken concurrently with Nurs 312. McElravy and staff

d. Nurs. 312 (3) Mental Health & Psychiatric Nursing Practice I & II, 3
Supervised experience in the development of the ability to use oneself as a therapeutic agent as related to mental health and illness. Application of content is made to all areas of nursing. (Lab. 18; offered twice per semester). Prerequisite: Nurs 240; must be taken concurrently with 311. S/U course. McElravy & staff

2. Delete:

a. Nurs. 300(33) Maternal and Child Nursing 11 credits, contingent upon approval of Nurs. 301 and Nurs. 302
b. Nurs. 310(35) Psychiatric Nursing, 7 credits, contingent upon approval of Nurs. 311 and Nurs. 312.

c. Nurs. 360(43) Elements of Leadership and Application to Nursing 4 credits.

3. Reduce credits required for graduation from 139 to 134.

4. Authorize the following changes in the Nursing Curriculum

a. Delete requirement of:

Ed. 312(12) Psychology of Learning 3 credits
Psych. 232(32) Developmental Psychology 3 credits
C.F. 200(5) Growth & Development of children 3 credits

b. Add substitute requirements of:

1. Choice of CF 200(5) or Psych. 232(32) 3 credits

2. Six (6) credits of electives chosen from the following course offerings:

Sociology 204(2) Social Psychology
Anthropology 203(6) (Soc. 6) Cultural Anthropology
Sociology 312(79) The Family
Sociology 340(86) Minority & Majority Relations
Sociology 430(123) Social Pathology
Sociology 324(123) Medical Sociology
Sociology 438(181) Aging and Society (if offered)
Psychology 103(3) Toward Self Understanding
Psychology 235(30) Theories of Personality
Psychology 254(34) Behavior Problems & Personality Disorders
Psychology 435(105) The Psychology of Social Behavior
Psychology 452(182) Aging and the Individual (if offered)
Education 312(12) Psychology of Learning

E. College of Pharmacy

1. Department of Pharmacy

a. Add (new)

Pharmacy 451 Clinical Pharmacy I, 3 credits
Clinical orientation to the practice of the health professions and to the patient within the community and in institutional settings, with emphasis on the various clinical services, therapeutics, observation and participation in clinical rounds, conferences, and case studies. (Lec. 2, Lab. 3) Prerequisite: 5th year standing. Jeffrey and staff. (Grad. #66)

2. Department of Pharmacy Administration

a. Add (new) (Grad. #59)

1) 570(170) Case Studies in Pharmacy Law II, 3 credits
Case studies and a detailed analysis of the FDC, Harrison Narcotic, Hazardous Substances, Poisons and public health insurance laws. (Lec. 3) Prerequisite: Pharmacy Adm. 51 Jacoff
2) 580(180) Prepaid Drug Plans II, 3 credits
Institutional relationships involved in the prescribing, dispensing and prepayment of drugs. Problems of interference with pharmaceutical or medical practice arising from different types of prepayment plans. Actual experience, laws and court decisions, abuse and controls. (Lec. 3) Prerequisite: Pharmacy Adm. 51 and Pharmacy Adm. 153. Jacoff

3) 651, 652(351,352) Health Care Systems I and II I&II, 3 Arrangements for utilizing pharmaceutical resources in public and private systems of health care in the U.S. and other countries. Variations in quality and distribution of care among socio-economic groups. (Lec. 3) Prerequisites: Pharmacy Adm. 180 and Stat. 201 or equivalent. Staff

F. College of Resource Development.

1. Department of Animal Science

a. Add (new)

AS 414 Advanced Ration Formulation II, 3 credits
Ration formulation for livestock and poultry, use of ingredient composition tables, nutrient requirement handbooks, current literature, electronic computer techniques, and industry practices. (Lec., 1, Lab. 4) Prerequisite: AS 111(11), Biol. 2 or Zool. 1, and AS 21, 22, or 53; or permission of instructor. In alternate years, next offered 1970-71. Ousterhout (Grad. #67)


c. Change credits for AS 101(1) from 3 to 4 and change lec.-lab. distribution to (Lec. 3, lab. 2)

2. Change name of Department of Food and Resource Economics to:

Department of Resource Economics

3. Change name of Department of Forestry to:

Department of Forest and Wildlife Management