1968

45th Report of Curricular Affairs

University of Rhode Island Faculty Senate

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TO: President Francis H. Horn
FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled 45th Report of Curricular Affairs

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 21, 1968

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 11, 1968 (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 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 27, 1968 (date)
Chairman of the Faculty Senate

ENDORSEMENT 1.

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

1. Returned.

2. Approved _______. Disapproved _______.

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

(date)
President

Form approved 11/65
ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Trustees.

FROM: The University President

1. Forwarded.
2. Approved.

(date) /s/ [Signature]

President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate.

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

1. Forwarded.

(date) /s/ [Signature]

[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/ [Signature]

President

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

(date) /s/ [Signature]

Chairman of the Faculty Senate
BILL #204

1. Course changes and additions for College of Agriculture, Arts and Sciences, Home Economics, Pharmacy, and the Graduate Library School.

2. Approve program and degree leading to M.S. in Computer Science.

3. Approve non-thesis option for M.A. degree in French.
At its regular meeting on February 29, 1968, the Faculty Senate Committee on Curricular Affairs considered the following matters, which are now submitted to the Faculty Senate for information or for confirmation.

I. MATTERS OF INFORMATION (For details check with appropriate Department Chairmen)

A. From the COLLEGE OF ARTS AND SCIENCES

1. Department of Economics, chiefly prerequisite changes, involving:

- Econ. 23, *Elements of Economics*
- 100, *Economics Seminar*
- 151, 152, *Assigned Work*
- 175, *Mathematical Economics*
- 243, *Public Finance and Fiscal Policy*
- 252, *Monetary Theory and Policy*

2. Department of Theatre, contingent on approval of Theatre 3, change prerequisites of Theatre 1, *Introduction to Theatre*, and all courses listing Th. 1 as a prerequisite.

B. From the COLLEGE OF ENGINEERING, Department of Industrial Engineering

1. Changes in Junior Year, B.S. Curriculum, to accommodate course changes.

2. Changes in titles, descriptions, and/or prerequisites, involving:

- I.E. 1, *Manufacturing Organization and Management*
- 18, *Problems in Industrial Engineering*
- 30, *Manufacturing Processes*
- 111, *Engineering Statistics and Quality Control I*
- 112, *Engineering Statistics and Quality Control II*
- 128, *Design and Analysis of Remuneration Systems I*
- 129, *Design and Analysis of Remuneration Systems II*
- 133, *Operations Research II*
- 160, *Process Engineering*
- 210, *Industrial Ergonomics*
- 240, *Production Control and Inventory Systems*
- 333, *Advanced Statistical Methods for Research and Industry*
- 345, *Manufacturing Engineering: Design, Analysis, Synthesis*

C. From the COLLEGE OF HOME ECONOMICS, Department of Home Management

Changes in description and/or prerequisites involving:

- H.M. 1, *Management in Family Living*
- 4, *Family Housing*
- 31, *Home Planning*
- 35, *Home Furnishings*
II. MATTERS REQUIRING CONFIRMATION OF THE FACULTY SENATE

A. From the FACULTY SENATE COMMITTEE ON CURRICULAR AFFAIRS

Recommendation: That the Faculty Senate rule out of order the condition set by the Graduate Council on its approval of the modifications of the program leading to the degree of Master of Science of Business Administration.

COMMENT: It is not -- nor has it been -- the intent of the FSCCA to bring censure or embarrassment upon the Graduate Council. The single purpose of this recommendation -- and of those to follow -- is to provide for and maintain consistency of the present course-numbering system.

HISTORY:

1. The Faculty Senate, at its meeting of May 18, reconvened on May 22, 1967, approved, contingent upon approval by the Graduate Council, the Thirty-ninth Report of its Committee on Curricular Affairs, Part II D, which part constituted a request by the College of Business Administration for approval of modifications in the curriculum leading to the degree of Master of Business Administration, including the addition of new "foundation" courses in accounting, economics, finance, law, management, marketing, quantitative business analysis, and statistics, intended exclusively for graduate student candidates for the MBA degree, and therefore all numbered "300's" in accordance with the numbering system established by the Faculty Senate and published in the Bulletin of the University of Rhode Island, Catalog Number 1967, page 122, and in the University Manual, Eighth Edition, Fall 1967, Page 61.

2. The Graduate Council, at its meeting on May 31, 1967, approved the proposed changes in the MBA program on condition that the "foundation" courses be numbered "at the 100 level" and that they be labeled as "open only to MBA candidates.

RATIONALE:

1. The Committee on Curricular Affairs, as a standing committee of the Faculty Senate, feels constrained to carry out the will of that body as expressed in its statutory regulations and has, through its chairman, pointed out to the Graduate Council (1) the contradiction implicit in the condition (between the Catalog statement, "In courses numbered 100 to 199 advanced undergraduate students make up the major enrollment . . .", and the label, "open only to MBA candidates"), (2) the violation of the Faculty Senate -- approved numbering system imposed by the condition, and (3) the inconsistency with the Graduate Council -- approved precedent in the cases of French 300, German 300, and Russian 300.
2. This violation of the Faculty Senate statutes by the Graduate Council, if allowed to stand, would serve to extend the same license to all agencies that operate under the jurisdiction of the Faculty Senate.

3. The Graduate Council has not seen fit to remove its condition, despite a request to do so by the FSCCA.

4. The Committee on Curricular Affairs is charged (the University Manual, University of Rhode Island, Eighth Edition, Fall, 1967, page 38) to study and make recommendations to the Faculty Senate on "unresolved problems arising in connection with the routine editing of course and curriculum numbers, titles, and descriptions to appear in the University Catalog."

B. Recommendation re Course Numbers:

1. That the course number 300 (and 301, in a few special cases where a two-semester sequence of instruction is desirable) be used for courses limited to graduate student enrollment, which might or might not carry "registration" credit, but which do not carry "program" credit toward a degree.

2. That the catalog descriptions of such courses specify the credit restrictions.

3. That the present Manual, (p. 61), Catalog (p. 122), and the Graduate School Statement of Policies (p. 6) descriptions of the course-numbering system be modified accordingly.

4. That a statement be included in the catalog description of the course-numbering system to indicate the expectation that the level of instruction will correlate the clientele.

Comments:

Once again there has arisen -- and there has been extant for some time -- considerable confusion in the minds of some members of the faculty regarding the course-numbering system at the University of Rhode Island. The confusion stems from the conflict between the "level-of-instruction" vs. "level of clientele" concepts. The same confusion was rampant in 1962 when the present system was adopted. At that time the Faculty Senate, finding it impossible to resolve the complexities and problems presented by a "level-of-instruction"-based numbering system, settled on the present, "clientele"-based system, which has since August, 1963, been published annually in the Catalog Number of the University of Rhode Island Bulletin, as the lead paragraph of the section on "Courses of Instruction," as follows:

Courses numbered under 100 are primarily for undergraduate credit. In courses numbered 100 to 199 advanced undergraduate students make up the major enrollment with some graduate students also enrolled. In courses numbered 200 to 299 the majority is graduate students with a small number of advanced undergraduates. Courses numbered above 300 are exclusively for graduate students.
Some of the confusion can be traced to the section in the Graduate School S.O.P. describing the course-numbering system in its own words, as follows:

**Level of Course.** A 300 level course is for graduate students only and may not be taken by undergraduate students.

A "200" level course is one in which the enrollment anticipated will be made up of graduate students, but which will also be open to undergraduate honor students, or those whose advancement in the field will permit their taking a graduate level course among graduate students without disadvantage to themselves.

A "100" level course is intended for upperclass undergraduate students and for beginning graduate students. The course should normally have prerequisites making it unavailable to freshmen or sophomores.

Courses numbered below "100" are purely undergraduate courses. While open to graduate students, credits for these courses may be used for fulfilling advanced degree requirements only under restricted conditions.

The Faculty Senate, although not entirely satisfied with the system, has not seen fit to change the basis of operation of the system; further, the Committee on Curricular Affairs, as a Standing Committee of the Faculty Senate, feels constrained to carry out the will of that body as expressed in its statutory regulations. Hence, the CCA has to date ruled that courses intended exclusively for graduate students be numbered "above 300".

The problem has often been discussed in the Graduate Council. It has just as often been discussed in the CCA. Several alternatives to the resolution of the problem of numbering such courses as the MBA "Foundation Courses" have been proposed and considered, with the result of the recommendations already cited.

Proceeding from the precedent set by the Department of Languages, wherein beginning instruction in French, German, and Russian is offered in non-credit courses, limited to graduate students, numbered 300, 301, and approved by the Graduate Council, the CCA drew its first recommendation. Recognizing that some departments might have special problems that would necessitate "registration" credit in such courses, the Committee considered that it should be allowed; however, the CCA is in complete agreement with the Graduate Council that such credit should NOT be allowed in setting up a program of study toward a degree.

It would seem then that the first recommendation brings the numbering of this kind of special courses into agreement with the established order, follows an already established precedent, at the same time distinguishes them from other graduate-level courses that are permissible for inclusion in a program of study leading to a degree. If the recommendation is adopted, only one extant course would be at all affected, Library Science 300, *The Library in Society*. This number can be changed by the "informational" procedure.
The second recommendation provides an additional safeguard. The third recommendation needs no comment. The fourth recommendation is suggested as a beginning step in directing the thinking of the faculty toward some future consideration of a course-numbering system that would use a level-of-instruction basis for its definition.

B. From the COLLEGE OF AGRICULTURE

1. Department of Animal Science

   Renumber to read: A.S. 232(300), Experimental Design
   (Cross-listing with E.S. 232)

2. Department of Food and Resource Economics

   Add (new):

   F & RE 234, Economics of Resource Development  Sem. II, 3 cr.
   Economic theory applied to the development of human and natural
   resources with topics drawn from current resource use problems.
   Analytical techniques treated are simulation techniques, Cost-bene
   fit analysis, Input-Output models, growth models, Cobb-Douglas
   functions, and Markov Chains. (Lec. 3) Prerequisites: F & RE 131
   and F & RE 175, or equivalent, or permission of Instructor.

C. From the COLLEGE OF ARTS AND SCIENCES

1. Department of Art:

   Add (new):

   Art 37, Printmaking III  Sem. II, 3 cr.
   Continuation of Art 31, exploring further the medium of relief
   printing in its various forms, woodcut, collograph and other raised
   surfaces, with special emphasis on the use of these media in the
   production of illustrated books. (Studio 6).

   Art 38, Printmaking IV  Sem. II, 3 cr.
   Continuation of Art 32, further exploration into the intaglio media,
   metal engraving, etching and lithographic printing from stone and
   zinc. (Studio 6).

2. Department of Botany

   a. Delete: Bot 252, Mutation and the Gene

   b. Add (new):

   Bot. 254, Cytogenetics  Sem. I, 4 cr.
   Comparisons of various types of crossing-over, chromosomal abbera
   tions and their effects, mutation and other cytogenetic phenomena
   in fungi and higher organisms. Laboratory studies of meiosis
   in maize, identification of chromosomes and induced rearrange
   ments. (Lec. 2, Lab. 4) Prerequisites: Bot. 52, 253, or per
   mission of instructor. In alternate years, next offered 1963-69.
3. Department of Chemistry

Change title, course description, and credits to read:

Chem. 104, Physical Methods in Inorganic Chemistry  
Sem. II, 3 cr.
Theory and application of Principal physical methods used in the 
preparation, analysis, and investigation of properties of inorganic 
chemicals, with emphasis on investigations concerning molecular 
structure and electron density distributions in molecular systems. 
(Lec. 2, Lab. 3) Prerequisite: Chem. 135.

4. Department of Computer Science and Statistics

a. Create a new masthead, "Experimental Statistics"

b. Change designation of Stat. 111, 112, in accord with 'a'.

c. Crosslist A.S. 232(300), Experimental Design, as:

Exp. Stat. 232(AS232) Experimental Design  
Sem. II, 3 cr.
Application of statistical methods to biological research and 
experimentation. Discussion of experimental situations for 
which various designs are most suitable. Prerequisite: Exp. 
Stat. 111.

d. Add (new):

Experimental Statistics 220, Fundamentals of Sampling and Applications  
Sem. II, 3 cr.
Simple random sampling; properties of estimates, estimation of 
standard errors, confidence limits. Estimation of sample size; 
stratified random sampling; optimum allocation, effects of errors, 
and quota sampling. Regression estimates; systematic and 
sequential sampling. (Lec. 3) Prerequisite: Experimental Statistics 111. In alternate years, next offered 1969-70.

Exp. Stat. 241, Multivariate Statistical Methods  
Sem. I, 3 cr.
Review of mathematical concepts in matrix analysis. Multivariate 
normal distribution. Tests of hypotheses on means, Hotelling's 
T², discriminant functions. Multivariate regression analysis. 
Canonical correlations. Principal components. Factor analysis. 
(Lec. 3) Prerequisite: Exp. Stat. 112 or Psy. 210. In alternate 
years, next offered 1968-69.

Exp. Stat. 291, 292, Problems in Experimental Statistics  
Sem. I and II, 1-3 cr. ea.
Advanced work in experimental statistics. Study of recent de-
velopments in data analysis. Courses will be conducted as 
seminars or as supervised individual topics. Prerequisite: 
Permission of Department.

e. Approve program and degree leading to the Master of Science, with 
a major concentration in the area of computer science.
Comment

PREREQUISITES: Bachelor's degree with a minimum of 18 credit hours in mathematics, statistics, or computer science including the equivalent of Math 41, 42, 43, and CS 110. Graduate Record Examination (SAT only) is normally required for admission.

REQUIREMENTS: CS 111 and CS 112 are required of MS candidates. Every student is also expected to complete four 3 credit 200-level courses. Three of these courses must be selected from CS 200, 202, 205, 251. The student will select, with the approval of his program committee, at least 6 additional credit hours in supporting courses. A thesis is required.

RESEARCH: Research aimed at the development of algorithms, computer languages, and programming systems appropriate to many areas will be possible. Depending upon staff interests, this research may be expected to fall into one or more of the categories below: algorithm theory and development, programming languages and linguistics, statistical computations, simulation, information retrieval, real time systems, time sharing systems, error analysis, data reliability, automata theory, artificial intelligence, information processing systems.

In the event that the student has received credit for a required computer science course as an undergraduate, another course approved by the student's program committee may be substituted for it in the student's M.S. program. However, in no case may the student's M.S. program contain less than 12 credit hours of course work at the 200 level or above.

5. Department of Languages
   a. Approve the non-thesis option for the Master of Arts degree with a major concentration in French.

Comment: This program will be consistent with the general requirements as specified in the Graduate Student Manual, 1967.

I. Current Thesis Option
   1. 24 graduate course credits, of which 3 must be in French 391.
   2. Comprehensive examinations.
   3. 6 credits for thesis.

II. Recommended Non-thesis Option (Effective only for those students admitted on or after July 1, 1967)
   1. 30 graduate course credits, of which 2 must be in French 391, and 2 must be in French 391 or equivalent.
   2. Comprehensive examinations.
Many of the candidates for the M.A. in French are public school teachers for whom the M.A. will be a terminal degree. It is felt that greater benefit will derive from the two additional courses (6 credits) than from the thesis.

b. Delete: Russian 5, 6, Beginning Readings in Russian Literature

c. Add (new):

   Russian 11, 12, Conversation and Composition Sem. 1, II, 3 cr. ea.
   Development of facility in speaking, understanding, and writing Russian, oral reports on articles read in newspapers and periodicals and frequent written compositions. (Lec. 3) Prerequisite: Russian 4.

6. Department of Sociology

Add (new):

   Soc 50, New World Archaeology Sem. 1, 3 cr.
   A survey of the culture history of the American Indians from the earliest times to the period of European discovery and colonization, using Archeological evidence and methods. (Lec. 3) Prerequisite: Sophomore standing.

   Soc. 88, Religions of Non-Literate Peoples Sem. II, 3 cr.
   Religious systems of select non-literate peoples over the world; examination of theories concerning the origins, functions, and nature of religion. (Lec. 3) Prerequisite: Soc. 6.

   Soc. 90, Indians of North America Sem. II, 3 cr.
   The North American Indians from prehistoric times to the present. Several representative cultures will be studied in detail. (Lec. 3) Prerequisite: Soc. 6.

   Soc. 110, Cultures and Societies of Latin America Sem. II, 3 cr.
   Contemporary cultures and societies in Latin America, with emphasis on the adjustment of the people to modern social and economic changes. (Lec. 3) Prerequisite: Soc. 6.

   Anthropological theory from the 16th century to the present; readings from such writers as Tylor, Morgan, Boas, Sapir, Kroeber, Benedict, Malinowski and Radcliffe-Brown. (Lec. 3) Prerequisite: Soc. 1 or 2; Soc. 6 and 3 additional credits in Sociology.

7. Department of Theatre

a. Add (new):

   Theatre 3, Introduction to Theatre Sem. 1, 3 cr.
   Introduction to the basic elements of drama and dramatic production. (Lec. 3) Prerequisite: Open to theatre majors only.

b. Replace Th. 1 with Th. 3 in the lists of requirements for the B.A. and B.F.A. degrees in Theatre.
D. From the COLLEGE OF HOME ECONOMICS

1. Department of Textiles and Clothing

Change time distribution to read:

T.C. 24, Clothing for the Family, . . . (Lec. 3)

E. From the COLLEGE OF PHARMACY

1. Department of Pharmacology

P'Col. 262, Psychopharmacology Sem. II, 3 cr.
The effects of drugs on animal and human behavior and on related biochemical processes. (Lec. 3) Prerequisite: Pharmacology 141 or equivalent, and/or permission of Department. Alternate years, next offered 1968-69.

P'Col. 264, Psychopharmacology Laboratory Sem. II, 1-3 cr.
Laboratory exercises to demonstrate effects of drugs on animal and human behavior. To earn more than one credit, the student will engage in original work of limited scope. (Lab. 3-9) Prerequisite: Pharmacology 141, or equivalent, and/or permission of Department.

F. From the GRADUATE LIBRARY SCHOOL

Add (new):

L.S. 331, Seminar in Library Administration Sem. I or II, 3 cr.
Intensive study of selected problems in important areas of library administration by means of discussion, readings, special lectures, and the presentation of papers based on literature surveys or research. (Lec. 3) Prerequisite: 18 hours of library science including 212, 213, 214, and 216.