Committee on Curricular Affairs -- 35th Full Report -- Course Changes in the Colleges of Agriculture, Arts and Sciences, Business Administration, Engineering, and Pharmacy

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UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

TO: President Francis H. Horn

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled Committee on Curricular Affairs -- 35th Full Report -- Course Changes in the Colleges of Agriculture, Arts and Sciences, Business Administration, Engineering, and Pharmacy, 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 January 19, 1967.

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 February 16, 1967, 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.

February 1, 1967
(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.

2/8/67
(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) President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate
FROM: Chairman of the Board of Trustees, via the University President.
1. Forwarded.

(date) (Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate
FROM: The University President
1. Forwarded from the Chairman of the Board of Trustees.

(date) President

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
The following course changes contained in Part II of the 35th Full Report of the Committee on Curricular Affairs dated January 19, 1967, are approved by the Faculty Senate:

A. **College of Agriculture** (via the Graduate Council)
   1. Renumber Horticulture 101, 102, to 200 level, to read:
      Hort. 201, 202, **Seminar in Horticulture**  Sem. I and II, 1 cr. ea.
   2. Add (new):
      Ag. Chem. 201, 202 - **Seminar**  Sems. I and II, 1 cr. ea.
      Preparation and presentation of papers on subjects in selected areas relating to Agricultural Chemistry.
      Ag. Chem. 391, 392 - **Research in Agricultural Chemistry**  Sems. I and II, 3 cr. ea.
      Assigned research on an advanced level. Student required to outline problem, conduct the necessary literature survey and experimental work, and to present his observations and conclusions in a report.
      Animal Path. 201, 202 - **Seminar**  Sems. I and II, 1 cr. ea.
      Preparation and presentation of scientific papers on selected subjects in Animal Pathology and Virology.
B. College of Arts and Sciences (via the Graduate Council, where concerned)

1. Department of Bacteriology and Biophysics

   a) Delete Bact. 342, **Bacterial Metabolism** Sem. II, 4 cr.

   b) Replace with:

   Bact. 344*, **Bacterial Metabolism** Sem. II, 2 cr.
   Study of energy-yielding reactions, metabolic pathways in the
dissimilation of carbon and nitrogen compounds and the
biosynthesis of cellular components. (Lec. 2) Prerequisite:
Biochem. 181.

   Bact. 346*, **Bacterial Metabolism Laboratory** Sem. II, 2 cr.
   Application of methods used in the study of bacterial metabolism
(Lab. 6) Prerequisite: Permission of Department.

   c) Add (new):

   Bact. 252*, **Microbial Genetics** Sem. II, 3 cr.
   Discussion of recent research on the mechanisms of mutation and
   genetic recombination, the process of DNA replication, the genetic
code, and regulation of DNA, RNA, and protein synthesis in
   microorganisms. (Lec. 2, Lab. 3) Prerequisites: Bact. 1, Bot. 52,
   and Biochem. 10.

   Biophys. 321, **Electron Microscopy** Sem. I, 4 cr.
   Introduction to electron microscopy, electron optics, maintenance
   and operation; techniques of specimen preparation for particulate
   materials, spraydrop, suspensions, freeze drying, critical point
drying, shadow casting, negative staining, fixation, and ultra-
   microtomy. (Lec. 2, Lab. 6) Prerequisite: Graduate standing.

   *Permission is requested to make these courses available during
   the second semester of the academic year 1966-67.

2. Department of Education

   Add (new):

   Ed. 324, **Reading and the Culturally Disadvantaged**, Sem. II, 3 cr.
   A study of the impact of the culture of the disadvantaged upon the
   child and his response to learning and the school, with special
   emphasis on reading and the adjustment of reading materials and
   methods to individual socio-economic-cultural differences. (Lec. 3)

   Ed. 380, 381, **Supervised Field Practicum and Seminar in Youth,
   Adult, and Community Education** Sems. I and II, 3 cr. ea.
   A clinically oriented course designed to provide students an
   opportunity in selected client systems to apply leadership
   principles and practices. 200 clock hours of practicum is required
   in addition to the seminar. (Lec. 2, Lab. 3) Prerequisites:
   Ed. 267, 370, and permission of the Department.
3. Department of Geography

Add (new):

Geog. 144, Geography of the Middle East and the Indian Subcontinent, Sem. II, 3 cr.
Regional analysis of the lands and peoples from Egypt to East Pakistan, with emphasis upon the geographical problems of the modern states including boundary and water disputes, resource base, and economic development. (Lec. 3) Prerequisites: Geog. 1, 2, 3, or 31, or permission of the Department.

4. Department of Physics

Add (new):

Phys. 310, Statistical Mechanics Sem. I or II, 3 cr.
Kinetic theory of matter, Maxwell-Boltzmann distribution, collision and mean free path, the H-theorem, Ergodic theorem, entropy, Nernst heat theorem, fluctuations and distributions, Quantum statistics, Ensemble theory, applications in Nuclear Physics, fluidity, condensation, Electron theory of metals and Relativistic gas. (Lec. 3) Prerequisite: Physics 202, 273.

Relativistic quantum theory, free and interacting fields, the S-matrix and the Perturbation expansion, Quantum Electrodynamics, dispersion relations, Symmetry operations and Invariance properties. (Lec. 3) Prerequisite: Physics 274.

General properties of the Nucleus. Two body problem at low, intermediate and high energy. Three and Four body problems, Nuclear forces, special models, Nuclear Spectroscopy and reactions; Decay of Nuclei, Many body problem, Structure of Nucleons. (Lec. 3) Prerequisites: Physics 202, 274.

Quantum theory of electrons, phonons and other elementary excitations, Hartree-Fock approximation, Many body problem; Super conductivity, band theory and Fermi Surface. (Lec. 3) Prerequisites: Physics 165, 273.

5. Department of Sociology

Add (new):

Soc. 101, The Ethnology of Africa Sem. II, 3 cr.
An ethnological survey of the cultural development of Africa’s peoples from prehistoric times to the present, with emphasis on the traditional cultures prior to foreign influences; impact of European cultures. (Lec. 3) Prerequisites: Sociology 5 or 6 and permission of the Department.

Soc. 125, Archaeology Sem. II, 3 cr.
Theory and method of archaeology, stressing the problems of classification, dating and interpretation of archaeological materials. Laboratory exercises and field work will be integral parts of the course. (Lec. 3, Lab. 2) Prerequisites: Sociology 5 or 6 and permission of the Department.
6. Department of Speech and Theatre

Add (new):

Theatre 14*, Advanced Acting Sem. II, 3 cr.

Continuation of Theatre 13, with emphasis on added depth of performance, variety of involvement, styles, and ensemble playing. Sense memory, images, and character motivation will be explored through exercises, improvisations, and scenes. (Lec. 1, Lab. 4) Prerequisite: Theatre 13 and permission of instructor.

*Permission is requested to offer this course during the Second Semester, 1966-67.
1. Add (new):
   
   **Bus. Ed. 242, Research and Methods in Teaching Office Occupations Subjects**
   Sem. I and alt. summers, 3 cr.
   Psychological principles of skill building, content, methods of teaching, curriculum materials, current thought, and evaluation in the teaching of office occupations subjects. (Lec. 3)

   **Bus. Ed. 244, Improvement of Instruction in Social Business Subjects**
   Sem. II and alt. summers, 3 cr.
   Research, objectives, methods of instruction, curriculum materials, current thought, and evaluation in the teaching of such subjects as Economics, Consumer Economics, Economic Geography, Business Law, and General Business. (Lec. 3)

   **Bus. Ed. 248, Workshop in Business Education**
   Summers only, 1-6 cr.
   Trends, current problems, new concepts, and improved methods in the teaching of office and distributive occupations subjects. (The subjects and number of weeks offered are to be flexible to meet the demands of students. Offered on the basis of one credit for one week during the summer with a maximum of six credits counted toward a degree.)

   **Bus. Ed. 301, Foundations and Recent Developments in Business Education.**
   Sem. II and alt. summers, 3 cr.
   Philosophy and objectives of business education, principles of curriculum development and evaluation, supervisory problems, organization and administration of cooperative part-time programs, historical developments, legislation, recent developments, and current status of business education. (Lec. 3)

   **Bus. Ed. 370, Research Seminar in Business Education**
   Sem. I and alt. summers, 3 cr.
   Analysis of research studies in the field. Research technique applied to business education. Emphasis on the reading, interpretation, and application of research findings to business education. Planning research projects. The planning and approval of an outline for a field study project is a requirement of this course. (Lec. 3) Prerequisites: A basic course in statistics and permission of the Department.

   **Bus. Ed. 371, Field Study and Seminar in Business Education**
   Sem. I or II, 3 cr.
   Carrying out of the field study project approved in Bus. Ed. 370 with attendance and participation in seminar meetings. (Lec. 3) Prerequisite: A basic course in statistics and Bus. Ed. 370.
D. **College of Engineering** (via the Graduate Council, where concerned)

1. Add (new):
   Engr. 3, *Engineering Graphics*  
   Sem. I or II, 1 cr.  
   Advanced theory of descriptive geometry with applications to engineering problems, including line and plane problems, plane curves, rules, warped and double-curved surfaces, intersections and developments, axonometric and perspective projections.

2. Add (new)
   O.E. 201, 202, *Ocean Engineering Seminar*  
   Sems. I and II, 1 cr.  
   Seminar discussions including presentation of papers based on research or literature survey. (Lec. 1) Attendance is required of all students in graduate residence, but a maximum of 1 credit per year is allowed and no more than 2 credits are allowed for the entire period of residence.

   O.E. 203, 204, *Ocean Engineering Principles*  
   Sems. I and II, 3 cr.  
   Emphasizes special ocean applications of classical engineering principles. Electrical, Industrial, and Mechanical Engineering in Semester I; Chemical and Civil Engineering in Semester II. Students proficient in particular area assigned advanced problems for that period. (Lec. 3)

   O.E. 210, *Engineering Ocean Mechanics*  
   Sem. II, 3 cr.  
   Applied concepts in ocean flow processes; waves due to gravity, wind, and layered media; large and small scale turbulence; prediction of flow instability; wave forces on structures. (Lec. 3) Prerequisite: Ch.E. 44, M.E. 54 or equivalent.

   O.E. 287, *Submarine Soil Mechanics*  
   Sem. I, 3 cr.  
   Soil mechanics principles as applied to submarine slope stability, heaving, sinkage and anchorage problems with emphasis on effective stress principle and selection of shear strength of marine sediments. (Lec. 3) Prerequisite: C.E. 80 or equivalent.

   O.E. 291, 292, *Special Problems*  
   Advanced work, under the supervision of a member of the staff and arranged to suit the individual requirement of the student. (Lec. or Lab, according to nature of problem) Prerequisite: permission of Department.

   O.E. 351, 352, *Advanced Design*  
   Sems. I and II, 3 cr. ea.  
   Advanced course coordinating engineering principles and economics in the design of complete ocean systems. Problems investigated individually with the guidance of one or more instructors. Prerequisite: Ch.E. 51 or 52 and I.E. 104 or equivalent and O.E. 203, 204.

   O.E. 391, 392, *Special Problems*  
   Sems. I and II, 1-6 cr. ea.  
   Advanced work under supervision of a member of the staff and arranged to suit the individual requirements of the student. (Lec. or lab, according to nature of problem) Prerequisite: permission or department.
E. College of Pharmacy

Renumber to the 100 level to read:

Pharmacognosy 145, 146 (45, 46) - General Pharmacognosy  
Sems. I and II, 4 cr. ea.

Pharmacology 141, 142 (41, 42) - General Pharmacology  
Sems. I and II, 4 cr. ea.

Pharm. Chem. 143, 144 (43, 44) - Organic Pharmaceuticals  
Sems. I and II, 3 cr. ea.