1989

The Two Hundred and Fifty-Ninth Report of the Curricular Affairs Committee

University of Rhode Island Faculty Senate

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TO: President Edward D. Eddy
FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled The Two Hundred and Fifty-Ninth 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 23, 1989.
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Governors, completing the appropriate endorsement below.
5. In accordance with Section 10, paragraph 4 of the Senate's By-Laws, this bill will become effective April 13, 1989, 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 Governors for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Governors, it will not become effective until approved by the Board.

March 24, 1989
C. B. Peters
Chairperson of the Faculty Senate

ENDORSEMENT

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

Returned.

a. Approved
b. Approved subject to final approval by Board of Governors
c. Disapproved

03/30/89
President

Form revised 4/86
The Two Hundred and Fifty-Ninth Report of the Curricular Affairs Committee

At its meeting of February 27, 1989, the Curricular Affairs Committee considered the following matters now presented to the Faculty Senate.

SECTION I

Informational Matters

College of Arts and Sciences

1. Department of Computer Science and Statistics
   a. CHANGE: Title and prerequisite for the following courses:
      1) CSC 201 to "Introduction to Computing... Pre: MTH 111 or equivalent."
      2) CSC 340 to "Applied Combinatorics... Pre: 212 and prior credit or concurrent registration in MTH 215."
   b. CHANGE: Description and prerequisite for CSC 311:
      CSC 311 Machine Assembly Language Programming (I and II, 3) Introduction to machine and assembly language programming for a particular computer. Instruction definitions, machine representations of data and instructions, programming techniques. Computer solution to several numerical and non-numerical problems. (Lec. 3) Pre: 212.
   Staff

2. Department of Mathematics
   CHANGE: Prerequisite for the following courses:
      1) MTH 107 to "Pre: Passing a placement test."
      2) MTH 108 to "Pre: Passing a placement test."
      3) MTH 141 to "Pre: Passing a placement test."
      4) MTH 142 to "Pre: 141 or permission of department chairperson."

*as corrected 89-3-23
3. Department of Physics

a. CHANGE: Prerequisite for the following courses:

1) PHY 322 to "Pre: 204 and MTH 244."
2) PHY 331 to "Pre: 204 and MTH 243."
3) PHY 334 to "Pre: 112, 214 or 205."
4) PHY 381, 382 to "Pre: 204, 205."

b. CHANGE: Description for the following courses:

1) PHY 109 by adding "203, 204 or 205" to "Not open to students who have passed 111, 112, 203, 204 or 205."
2) PHY 120 by adding "203, 204 or 205" to "Not open to students who have passed 111, 112, 203, 204 or 205."
3) PHY 111, 112 by revising last sentence to "Suitable for prospective teachers."
4) PHY 213, 214 by revising sentence following (Lec. 3) to "For students planning to major in science or engineering."
5) PHY 285, 286 to "Laboratory exercises and recitation sessions related to topics in 213 and 214."
6) PHY 341 by adding "Not open to students with credit in 306."

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SECTION II

Curricular Matters Which Require Confirmation by the Faculty Senate.

A. College of Arts and Sciences

1. Department of Computer Science and Statistics

a. ADD: The following courses:

1) CSC 205 Computational Methods for Engineers and Scientists (I or II, 3) Roots of equations and systems of equations, curve fitting, plotting, integration, errors. Students will write several programs to solve numerical problems. (Lec. 3) Pre: 201 or 211, prior or concurrent registration in MTH 142. Not for major credit in computer science. Staff
2) CSC 211 Introduction to Computer Science I (I and II, 3) Algorithm development, programming and program structure, data representation, organization and characteristics of computers. Students will write several programs to solve numerical and non-numerical problems. (Lec. 3) Pre: Prior experience with computers and programming, MTH 111 or equivalent. Students may not receive credit for both 201 and 211. Staff

3) CSC 312 Advanced Assembly Language Programming (I or II, 3) Continuation of 311. Subprograms, macro-level input and output decimal and floating-point representations, conversions between data representations, macro definitions. (Lec. 3) Pre: 311. Staff

b. CHANGE: Number, title, description and prerequisite for CSC 202:

CSC 212 (202) Introduction to Computer Science II (I and II, 3) Fundamentals of software engineering including programming style, development, testing, maintenance and evaluation. Structured data types. Data structures and their implementation. Principles of recursion. (Lec. 3) Pre: 201 or 211, and MTH 141. For students intending to major in computer science. Staff

c. CHANGE: Title, description and prerequisite for the following courses:

1) CSC 301 Fundamentals of Programming Languages (I and II, 3) Syntactic and semantic issues in programming languages. Topics include scanners, recursive descent parsers, interpreters, direct and continuation semantics, run-time structures, and data abstraction. Several significant programming exercises. (Lec. 3) Pre: 212. Staff

2) CSC 320 Social Issues in Computing (I or II, 3) Discussion of the social and ethical issues created by the use of computers. The problems that computers solve and those that they produce. Ethics and responsibilities of the computer professional. (Lec. 3) Pre: 212, junior standing or permission of instructor. Staff
2. Department of Languages

CHANGE: Requirements for the Bachelor of Arts degree in Spanish to read as follows:

The major requires a minimum of 30 credits in Spanish (27 credits for majors in secondary education), including SPA 325 and three 400-level courses (excluding SPA 410 and 421). SPA 101, 102, 121, 391, 392, and 393 may not be counted toward the major. LIN 201 and 202 and, with the permission of the advisor, the section head, the department chairperson, and the dean of the college, courses in allied fields such as history, art, and anthropology may also be selected. These requirements are the same for secondary education.

A summer field workshop (SPA 410) in Spain or Spanish America is occasionally offered for 3 to 6 credits. For information, see the section head.

3. Department of Physics

a. ADD: The following courses:

1) PHY 203 Elementary Physics I (I and II, 3) Introduction to Newtonian Mechanics. Kinematics and dynamics of particles and systems of particles. Motion of rigid bodies and oscillatory motion. Conservation principles. (Lec. 3) Pre: MTH 141 (may be taken concurrently). For students planning to major in science or engineering. Concurrent registration in 273 is required. Not open to students with credit in 213. Staff

2) PHY 204 Elementary Physics II (I and II, 3) Introduction to electricity and magnetism, leading to Maxwell's equations. Electric fields and Gauss' law; magnetic fields and Ampere's law. Capacitance and inductance, dc and ac circuits. Electromagnetic waves. (Lec. 3) Pre: 203 or MCE 236; MTH 142 (may be taken concurrently). For students planning to major in science or engineering. Concurrent registration in 274 is required. Not open to students with credit in 214. Staff

3) PHY 205 Elementary Physics III (I and II, 3) Introduction to topics of thermodynamics, kinetic theory, wave motion, acoustics and optics. (Lec. 3) Pre: 203 or MCE 263. MTH 243 (may be taken concurrently). For students planning to major in science or engineering. Concurrent registration in 275
is required. Not open to students with credit in 213, 214. Staff

4) PHY 273, 274, 275 Elementary Physics (I and II, 1) Laboratory exercises and recitation sessions related to topics in 203, 204, 205. (Lab, 2, Rec. 1) Concurrent registration in 203, 204, 205 required. Staff

5) PHY 306 Elementary Modern Physics (I and II, 3) Introduction to relativistic and quantum physics. Special relativity theory, structure of atoms, molecules and nuclei; wave and particle properties of matter, Schrodinger equation in one dimension. (Lec. 3) Pre: 205, 204 or ELE 210. Not open to students with credit in 341. Staff

b. CHANGE: Requirements for the Bachelor of Arts degree in Physics to read as follows:

Students selecting this field must complete a minimum of 36 credits in physics, mathematics and computer science, including: PHY 203, 204, 205, 273, 274, 275 (12), PHY 322 (3), 331 (3), 381, 382 (6), 401 or 402 (1), 451 (3), MTH 244 (3), CSC 202 (3).

c. CHANGE: Requirements for the Bachelor of Science degree in Physics to read as follows:

FIRST YEAR
First semester: (15 credits)
MTH 141 (3), PHY 203, 273 (4), and general education requirements (8).
Second semester: (16 credits)
MTH 142 (3), PHY 204, 274 (4), CSC 201 (3),
general education requirements (6).

SECOND YEAR
First semester: (16 credits)
MTH 243 (3), PHY 205, 275 (4), CSC 202 (3),
general education requirements (6).
Second semester: (15 credits)
MTH 244 (3), PHY 331 (3) and 306 (3),
general education requirements (6).

THIRD YEAR
First semester: (18 credits)
PHY 322 (3) and 381 (3), MTH 215 (3),
general education requirements (6).
Second semester: (15 credits)
Mathematics elective at the 300- or 400-level (3), PHY 382 (3), and 420 (3), and free electives (6).
FOURTH YEAR
First semester: (15 credits)
PHY 483 (3) and 451 (3), MTH 461 (3),
free electives (6).
Second semester: (16 credits)
PHY 484 (3), 402 (1), 452 (3) and 455 (3),
and free electives (6).

B. College of Engineering

Department of Civil and Environmental Engineering

*ADD: CVE 498 Civil Engineering Design (II, 3) Elements
of planning, design and analysis of a civil engineering project, integrating the principles
learned in previous courses; a group project involving all major aspects of civil engineering
design. Not for graduate credit. (Lee. 1, Lab. 6) Pre: 304, 305 and senior standing. Staff

C. College of Nursing

1. ADD: The following courses:

a. NUR 246 Conceptual Bases of Professional Nursing
   (I or II, 3) Overview and synthesis of concepts
   essential to development of the professional
   nursing role. Primary emphasis on expanding and
   refining the theoretical bases for decision mak-
   ing and nursing strategies in client care. Evans

b. NUR 247 Practicum in Care of Clients and Families
   (I or II, 3) Application of health promotion and
   restoration principles and corresponding nursing
   strategies for clients and families in a variety
   of clinical settings. (Lec. 1, Lab. 6) Pre:
   210, 212 and completion of ACT Tests or equivalent
   courses, Health Restoration II (477), Health
   Support II (530). Staff

c. NUR 393 Clinical Directed Study
   for Registered Nurse Students (I or II, 4) Clinical study or
   individual scholarly project related to the
   nursing major. Faculty guidance in problem
   delineation and in development, implementation and
   evaluation of the project. Pre: 200, 246, 247.
   Staff

2. DELETE: NUR 211 Nursing in Contemporary Society (I, 3)

* No action by Graduate Council. Not for graduate credit.