Addition of Agricultural Chemistry to areas in Biological Sciences offering the Ph. D. Degree. 37th Report of Committee on Curricular Affairs -- Addendum Part II A

University of Rhode Island Faculty Senate

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FACULTY SENATE

BILL

Adopted by the Faculty Senate

TO: President Francis H. Horn

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled Addition of Agricultural Chemistry to areas in Biological Sciences offering the Ph. D. Degree. 37th Report of Committee on Curricular Affairs -- Addendum Part II A 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 16, 1967 (date).

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 6, 1967 (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 28, 1967 (date) /s/

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.

April 1, 1967 (date) /s/

President

Form approved 11/65 (over)
ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Trustees.

FROM: The University President

1. Forwarded.

2. Approved.

_________________________  ________________________________  /s/
(date)  President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

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

1. Forwarded.

_________________________  ________________________________  /s/
(date)  President

_________________________  ________________________________
(Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

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

_________________________  ________________________________  /s/
(date)  President

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

_________________________  /s/
(date)  Chairman of the Faculty Senate
At an additional meeting on March 9, 1967, the Faculty Senate Committee on Curricular Affairs considered several matters pressing the deadline for approval of catalogue material. Some items were passed contingent upon approval by the Graduate Council; these items and those reported in the Abbreviated 37th Report with similar contingencies were all considered and approved by the Graduate Council at its meeting March 10. Hence, all requests included in the Report (circulated) and its Addendum (herewith) have the approval of all pertinent agencies and are now presented to the Faculty Senate for information or confirmation.

I. ITEMS FOR INFORMATION

A. From the College of Agriculture (prerequisite changes)

Hort. 6, Nursery Principles and Practice
24, Vegetable Crops
45, Landscape Constructions
53, 54, Woody Plants
173, Post-Harvest Physiology of Economic Crops
175, Nutrition of Greenhouse and Ornamental Crops
276, Advanced Mineral Nutrition of Plants

B. From the College of Arts and Sciences

Dental Hygiene Curriculum for Associate Degree (minor rearrangement)

Psych. 71, History and Systems of Psychology (prerequisite change)

Phys. Ed. 22M, Aquatics (number designation change)
23M, Foundations of Health (number designation change)
27M, 28M, Coaching of Track (deleted as a consequence of approval of 62M, Coaching of Track and Field)
32W, Procedures in Health Instruction (prerequisite change)
72W, First Aid (new number, given)

Sociology 87, Juvenile Delinquency (new time: Sem. II)
108, Seminar in Criminology (new time: Sem. I)
131, Sociology of Politics (new time: Sem. II)
C. From the College of Business Administration (new titles, given)

Management 9, Production Management
157, Advanced Production Management
158, Advanced Production Management

D. From the College of Engineering

Ch. E. 11, Introduction to Chemical Engineering (Course description change)
25, Process Dynamics and Control (new time: Sem. II)
64, Industrial Reaction Kinetics (new time: Sem. I)
225, Automatic Process Control (new time: Sem. I)
238 (or Nu. E. 238) Nuclear Metallurgy (new time: Sem. II)
243, Fluid Dynamics (new time: Sem. II)
274, Biochemical Engineering (new time: Sem. I)
284, (or Nu. E. 284), Nuclear Reactor Heat Transfer (new time: Sem. I)
364, Applied Reaction Kinetics (new time: Sem. II)

Nu. E. 238 and 284: See Ch. E. 238 and 284 for new time.
282 (or Ch. E. 282), Radiological Health Physics (prerequisite change)
284 (or Ch. E. 284), Nuclear Reactor Heat Transfer (prerequisite change)
287 (or Ch. E. 287), Nuclear Chemical Engineering (prerequisite change)

E. From the College of Home Economics

Specification of requirements in Group I - courses required of all students (accommodation to the General Education Curriculum)

F. N. 35, Experimental Food (description change)
36, Demonstration Methods in Food and Equipment (description change)
41, Advanced Nutrition (description and prerequisite change)
202, Advanced Experimental Foods (description and prerequisite change)

F. From the College of Pharmacy (prerequisite change)

Pharm. Chem. 43, 44, Organic Pharmaceuticals
48, Drug Assay
341, Detoxication Mechanisms
II. MATTERS REQUIRING CONFIRMATION OF THE FACULTY SENATE

A. From the College of Agriculture

1. Authorize the addition of Agricultural Chemistry to the areas in Biological Sciences offering the Ph.D. degree.

Supporting information:

All general requirements, such as languages, residence etc., contained in the "Statement of Policies" of the Graduate School, University of Rhode Island, will be adhered to.

A particular program will be determined by the students committee in such a way as to best fit the needs of the student. Programs will vary with the student's status as to assistantship, prior degree credits, etc. Below are samples of programs in the Soil Chemistry and Food Biochemistry areas.

**IN SOIL CHEMISTRY**

<table>
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<th>1st Semester</th>
<th>Crs.</th>
<th>2nd Semester</th>
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<td>Ag. Chem. 111 Soil Chem.</td>
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<td>Phil. 152 Phil. of Science</td>
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<tr>
<td>Bact. 241-Phys. of Bact.</td>
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<th>Crs.</th>
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<td>3</td>
<td>Chem. 216 Ion Exch. &amp; G.L.C.</td>
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<tr>
<td>Chem. 217 Intro. Radio Tech.</td>
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<td>Chem. 218 Anal. Abs. Meth.</td>
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<td>Hort. 175 Plant Nutr.</td>
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<td>Hort. 276 Adv. Min. Nutr.</td>
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<td>Ag. Chem. 121 Pest. Chem.</td>
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<td>Ocean. 242 Petr. of Mar. Sed.</td>
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# IN FOOD BIOCHEMISTRY*

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<td>Ag. Chem. 132 Food Microbiol.</td>
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<td>Ag. Chem. 121 Pest. Chem.</td>
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<td>Phil. 152 Phil. of Science</td>
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<td>Bact. 241 Phys. of Bact.</td>
<td>3</td>
<td>Ag. Chem. 152 Plant Biochem.</td>
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<tr>
<td>Biophys. 221</td>
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<td>Chem. 216 Ion Exch. &amp; G.L.C.</td>
<td>3</td>
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<td>A.S. 144 An. Food Prod.</td>
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<tr>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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*It is expected that the thesis proposal and introductory and exploratory research will commence during the 1st year.

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B. From the College of Arts and Sciences (Institute of Gerontology; see 27th Report, February 10, 1966)

Add (new):

**Psych. 182, Aging and the Individual**  
Sem. II, 3 cr.

The psychological aspects of the aging process. Age changes in motivation, values, and functional efficiency. The psychopathology of old age. (Lec. 3) Prerequisite: Psych. 7; Psych. 32 desirable.

**Sociology 181, Aging and Society**  
Sem. I, 3 cr.

The sociological features of the aging process. The physiological and psychological bases of aging. The major social institutions and the impact of significant social trends. This course, together with Psychology 182, Aging and the Individual, constitutes a sequence in Gerontology (Lec. 3) Prerequisite: Soc. 1; Soc. 79 desirable.
Professor William R. Ferrante  
Chairman, Faculty Senate  
Wales Hall, Campus  

Dear Bill:

This is to indicate that after a very interesting, although somewhat stormy session, with members of the Bio-Cafe, I have decided to approve Senate Bill 158, which provided authorization for the award of the Ph.D. to students in agricultural chemistry, under the general rubric of the biological sciences. I do this somewhat reluctantly but, in view of the fact that we haven't been able to turn up all of the historical background material we need on the initiation of the Ph.D. degree in the biological sciences, it seems profitless for me to continue my opposition to adding work in agricultural chemistry to the approved list of options. I want to make it clear that my objection had nothing to do with the quality of the work or faculty within the department of agricultural chemistry. It merely concerned the proliferation of Ph.D. programs on campus, which I am under strict instructions from the Board of Trustees to handle with caution. There are, it seems to me, some substantial financial considerations in connection with each new option that is added within the program of biological sciences, even as there are in each new departmental Ph.D. authorized. At the moment, however, the faculty, by its various actions, seems to be agreed that agricultural chemistry should be included in our Ph.D. program and so I am approving it, and concurring with the faculty position that it is not a new program and, consequently, does not need to go to the Board of Trustees for Board approval.

Cordially,

Francis H. Horn  
President

cc: Professor Harrison  
Professor Salomon  
Dr. James  
Dean Cobble  
Dean Nash

"Voted: That the President and Faculty of the University be authorized to organize and direct graduate studies leading to the doctorate in such fields of study as may be recommended by the Committee on Graduate Studies and approved by the faculty of the University from time to time, having due regard to the distinctive educational interest of the University, the presence of qualified personnel, the adequacy of the library resources, and the sufficiency of budgetary support for such work."


"Dr. Pelton recommended that the graduate program be thought of in terms of groups—not as separate departments. The departments will still function as such but will be included within the groups as fields of concentration.

Physical Sciences: Chemistry; physics; agricultural chemistry; electrical, mechanical, chemical and civil engineering; math (if and when this department offers graduate work), pharmaceutical chemistry, and pharmacy.

Biological Sciences: bacteriology, botany, zoology, plant pathology, agronomy, horticulture, animal husbandry, marine biology, pharmacology, pharmacognosy, and food and nutrition.

It was recommended that there be an adoption of a framework in which there are fields of concentration and in such a set-up the four areas in pharmacy would be accepted and approved as concentrations for developing programs leading to the Ph.D. degree. (In all cases the diploma would read Doctor of Philosophy—the area would be indicated by the courses taken. The above set-up would be acceptable to the four departments in pharmacy.

A motion was made and passed to approve in principle what Dr. Pelton has suggested. It will be worked out to include all departments in graduate work.

It was moved and passed that the four fields of pharmacy be allowed to offer the Ph.D. effective July 1, 1958. In the physical biological sciences group—pharmaceutical chemistry and pharmacy; in the biological sciences group—pharmacognosy and pharmacology."


The Board amended its June 1957 action to read: "That the President and the Faculty of the University be authorized to organize and direct graduate study leading to the doctorate in such fields of study as may be recommended by the Committee on Graduate Studies and approved by the Faculty and by the Board of Trustees."


Dr. Pelton had a meeting with Drs. Carpenter, Lepper, Hartung and Howard regarding the Ph.D. in Biological Sciences. They are interested in the idea of areas."


Meeting was devoted entirely to discussing the matter of procedures to be followed in presenting the Ph.D. program to the Board of Trustees for final approval.
6. March 3, 1958 University Faculty

Recommendations of Committee on Graduate Studies were approved. "The Committee on Graduate Studies recommends to the Faculty that it approve graduate study leading to the doctorate in the following fields of study:

I. Physical Sciences
   A. Chemistry
   B. Pharmaceutical Chemistry
   C. Pharmacy
II. Biological Sciences
   A. Pharmacology
   B. Pharmacognosy
   C. Biological Oceanography

Appended are criteria used by the Committee in studying the various requests for authorization to give such graduate work and summaries of information considered by the Committee.

"Departments seeking authorization of offer graduate programs leading to the doctorate will so indicate to the Director of Graduate Studies. The Heads of such Departments will submit in writing the following information:

1. The qualifications of each faculty member including degrees-- where and when earned, teaching and research experience, and work with graduate students (master's or doctor's level) here or at other institutions.

2. The teaching and research load of each faculty member who is to be involved in doctoral education including courses--undergraduate and graduate, supervision of master's candidates, membership on graduate students' committees, and current research activities.

3. Courses on the 100 and 200 levels (with instructors) ow available, or which are to be introduced, for fulfilling degree requirements.

4. Physical research facilities available.

5. Library resources available for independent study with particular reference to pertinent periodicals.

6. Anticipated growth of the department, staff and physical facilities, including items approved in budget requests for the next academic year. Statement should have the endorsement of the Academic Dean.

7. Work in other fields of study which could be used in fulfilling the objectives of a candidate.

8. Approval of the request for authorization by the Academic Dean concerned based upon his evaluation of faculty, of physical facilities, of library resources and of financial support."

March 5, 1958. Agenda Item 10. Board of Trustees. (Minutes Item 3.) Voted to defer action on Ph. D. proposal.

7. April 5, 1958. Board of Trustees.

Board indicated Intention to hold a special meeting on the Ph. D. program about the middle of April.

8. May 7, 1958 Board of Trustees.

A quorum was not present. Discussed, but no action.


(This was the next to the last meeting under Pres. Woodward.) The president summarized previous history of Ph. D. proposals. "Voted: That the Board of Trustees approves the report from the Committee on Graduate Studies and the Faculty relative to areas in which doctoral education is to be inaugurated. It is the understanding of the Board that graduate students working for a doctorate will be accepted in Chemistry, Oceanography and Pharmaceutical Science." (Note:

"Dr. Pelton had a conference with Dr. Hartung, Dr. Lepper, and Dr. Carpenter regarding the Ph. D. in biological sciences. Three departments in biology are now preparing materials to come before the Committee. (The degree will be in Biological Sciences, not in Botany, etc.) Biology people interested in the program right now. They could not take more than 5 students, and probably would take 3."


"5. Dr. Pelton met with faculty members on Nov. 24 to discuss the doctoral program in biological sciences. Three departments will send information about their staff members with Ph. D.'s, Botany, Botany and Bacteriology are preparing material for the Ph. D. program."

(It is suspected that a meeting occurred between Dec. 1, 1958 and Jan. 16, 1959 but there are no minutes in the file. The proposal from Biol. Sci. is not in the file. However, the call and agenda of the Jan. 16 meeting was dated Dec. 12, 1958 therefore any such meeting would have been between Dec. 2 and Dec. 12, 1958.)


"30 voted that the Board approves President Horn's recommendation that the field of Biological Science be added to the fields in which the Board authorized the conduct of graduate instruction leading to the Ph.D. degree."

(see if the agenda material for the Feb. 5, 1959 meeting of the Board included the Biol. Sc. Ph.D. proposal. It did not, the only reference found is a penciled note on Pres. Horn's own copy of the agenda, reading "O.K. for Biol. Ph. D.")

13. Feb. 6, 1959 Committee on Graduate Studies

"Dr. Pelton discussed with the Committee the Ph. D. program in biological sciences."

14. February 11, 1959. Committee on Graduate Studies. (I have photocopy, RWH)

"President Horn presented the proposal for the Ph. D. in Biological Sciences to the Board of Trustees. He presented the idea, as coming from the Graduate Committee, looking on this Committee as representing the faculty. President Horn has no idea of taking this before the general faculty. The Doctoral Program in the Biological Sciences was approved by the Board.

"Dr. Pelton passed out the attached information on the biological sciences. A few minor changes were made. There was a discussion of the merit of students taking three degrees at the University of Rhode Island.

"The motion was made to approve the doctoral study in biological science with the prospective students pursuing courses and research in the fields of bacteriology, botany (including plant pathology and plant physiology) and zoology. The Committee is acting irrespective of the Board. It has the blanket approval for biological sciences, now the Committee is approving botany, bacteriology and zoology. Does it include animal husbandry? No. Will there be a Ph. D. in Agriculture? No. The motion was passed.

"It will be written out in detail how this will be worked out, and released to all the people involved so they can see the machinery. (This will not have to be approved by the "rump faculty."

(Note: A 9 page description of the qualifications, as in a proposal was passed out, dated Feb. 9, 1959, headed Division of Graduate Studies and unsigned. I have duplicate copy from the minutes file. RWH.

(Members of Graduate Committee: Tucker, Fish, Thomas, J. Smith, Quirk, Parks, P. Smith, Thompson, Kaiser, Pelton

Report of Committee on Biology Ph.D.'s for Students in Agriculture.

Recommendation of the committee:

"A student in the College of Agriculture may work for the Ph.D. in Biological Sciences under a member of the Agriculture Faculty as his major professor, provided that the student is accepted as a Ph.D. candidate by the pertinent department in the Biological Science areas (Bacteriology, Botany, Zoology). The latter department must be represented on the student's program committee, and the student's program must meet all of that department's requirements for the Ph.D.

D.H. Pratt, D.J. Zinn, V.G. Shutak, Chairman."

Minutes:

"The report on Biology Ph.D.'s for students in Agriculture was discussed. It was moved, seconded and approved that the word "accepted" be changed to "acceptable" and that Plant Pathology-Entomology be added so that the amended sentence would read:

"A student in the College of Agriculture may work for the Ph.D. in Biological Sciences under a member of the Agriculture Faculty as his major professor, provided that the student is acceptable as a Ph.D. candidate by the pertinent department in the Biological Science areas (Bacteriology, Botany, Zoology, and Plant Pathology-Entomology)."

"Discussion arose as to the last sentence of the report concerning the student's program committee and program. Upon motion a vote was taken to recommit the report to the committee for further study. On a division count, the motion to recommit was carried."

17. 1963 Statement of Policies of the Graduate School. (Fall, 1963)

"Section XV. Doctoral Candidates in Departments Other Than Those Authorized to Offer the Degree.

"A graduate student working in a department not offering a Doctor of Philosophy degree may register for this degree in another college or department which has an approved Doctoral program in a closely related field under the following conditions:

1. The candidate must be mutually acceptable as a graduate student to both departments concerned.
2. A member of the department not authorized to offer the degree may serve as the major professor providing he holds the Ph.D. degree, is a member of the graduate faculty, and the assignment has the approval of the Dean of the Graduate School.
3. A member of the cooperating department must serve as a member of the student's committee.
4. The program as directed by the student's committee must be consistent with such special requirements as are normal for regular candidates in the
18. November 18, 1966 Graduate Council (item 9).

"It was moved, seconded, and voted that the Graduate Council recognize the Biological Sciences Faculty Assembly Sub-group with the Ph.D. of the "Bio-Cafe" (Biological Sciences Faculty Assembly group officially as the voice of the Biological Sciences Faculty in relation to the Ph.D. degrees."


Proposal distributed with agenda:

"... that this group endorse Section XV of the 1963 Statement of the Graduate School, dealing with authority of faculty members in departments other than those authorized to grant the Ph.D. degree, in cooperation with related departments that are so authorized, with the following amendment: 'changing the period at the end to a comma, and adding the following: except that some of these requirements may be waived by agreement between the department concerned and the student's program committee.'"

Minutes: "Approved - Recommendation to the Graduate Council to amend and adopt Section XV in the 1963 Statement of Policies of the Graduate School. (Amendment attached)."

The above recommendation of Bio-Cafe Sub-group on the Ph.D. Degree was forwarded to the Graduate Council, via Dean of the Graduate School Peter Nash on 7 November 1966. It has not yet been considered by the Graduate Council. (April 15, 1967).
MEMORANDUM

To: All members of Bio-Cafe.

There will be a special meeting of Bio-Cafe on Monday, April 24, 1967, in Ranger Hall, Room 301, at 12:00 noon.

Agenda.

President Horn has agreed to come at 12:15 P.M. to discuss the factors involved in his disapproval of our proposal to authorize the Department of Agricultural Chemistry to offer the Ph.D. degree in Biological Sciences, and the relationship of this action to the existing Ph.D. program in the Biological Sciences.

Dean Nash and Dean Pollack have indicated they will be present, and Dean Cobble has been invited. Vice President James and Senate Chairman Ferrante can not be present because of previous commitments.

We hope you can attend this important meeting.

Robert W. Harrison
Chairman