


Serial Number #18-19-26B

TO: President David Dooley  
FROM: Hillary Leonard, Chairperson of the Faculty Senate

1. The attached BILL titled, Curricular Report No. 2018-19-12 from the Graduate Council to the Faculty Senate: Curricular Changes, is forwarded for your consideration.
2. This BILL was adopted by vote of the Faculty Senate on April 18, 2019.
3. After considering this bill, will you please indicate your approval or disapproval. Return the original, completing the appropriate endorsement below.
4. In accordance with Section 10, paragraph 4 of the Senate's By-Laws, this bill will become effective May 2, 2019, three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; or (3) the University Faculty petitions for a referendum.

  
Hillary Leonard  
Chairperson of the Faculty Senate

April 18, 2019

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ENDORSEMENT


TO: Chairperson of the Faculty Senate

FROM: President of the University

a. Approved ☒.

b. Approved subject to Notice of the Council on Postsecondary Education \_\_\_\_.

c. Disapproved \_\_\_\_.

  
Signature of the President

5.1.19  
(date)

**Graduate Curricular Report #2018-19-12  
March 2019**

**Section II  
Curricular Matters Which Require Confirmation  
By the Faculty Senate**

**NOTICES OF CHANGE**

**Notice of Change**

***College of Pharmacy*** (see Appendix A)

Create a non-thesis option to MS degree in Pharmaceutical Sciences.

**Notice of Change**

***College of Business*** (see Appendix B)

Reduce the number of required credits from 45 to 42 for the one-year full time MBA.

**Notice of Change**

***Nutrition and Food Sciences*** (see Appendix C)

Change in catalog language for MS in Nutrition degree program

**Notice of Change (tabled at the January 28, 2019 meeting)**

***Department of Electrical, Computer and Biomedical Engineering*** (see Appendix D)

Change in requirements for Electrical Engineering graduate program:

1. All full time MS and PhD students must enroll in ELE 601 Graduate Seminar every semester that it is offered.
2. Eliminate “significant independent research” course and “substantial paper” requirements for non-thesis MS students who take the comprehensive examinations.

**Notice of Change**

***Biological and Environmental Sciences (BES)*** (see Appendix E)

We propose to eliminate the requirement for GRE scores for applicants to the BES program because:

- (1) GRE scores have no predictive value for international applicants whose native language is not English;
- (2) Taking GRE's is exceptionally difficult for many international applicants;
- (3) GRE scores have very little predictive value of success for BES students regardless of nationality.

NOTICE OF CHANGE FORM

**Notice of Change for: Inclusion of a Non-thesis MS in Pharmaceutical Sciences**

**Date:** 1/30/19

**A. PROGRAM INFORMATION**

**1. Name of institution**

University of Rhode Island

**2. Name of department, division, school or college**

Department: BPS and PHP

College: Pharmacy

**3. Intended initiation date of program change. Include anticipated date for granting first degrees or certificates, if appropriate.**

Initiation date: Fall 2019

First degree date: December 2019

**4. Intended location of the program**

Kingston, RI

## **5. Summary description of proposed program (not to exceed 2 pages).**

The proposed change proposes a non-thesis option to MS degree. It also cleans up language for the existing MS Thesis degree. For the non-thesis MS degree option, students will complete 30 credits of coursework in a specified specialization (i.e. Medicinal Chemistry, Pharmaceutics and Pharmacokinetics, Health Outcomes, or Pharmacology and Toxicology).

Our current Master of Science in Pharmaceutical Sciences Degree is a MS with thesis only option. Our College of Pharmacy Graduate Committee has evaluated the needs of our program and would like to amend the language so that there is a non-thesis option for the MS. The student would still be able to perform research in the laboratory setting, similar to the thesis option, however the student would not have to attain the same level of research accomplishments (i.e. data needed) for the capstone project as required for the thesis-based MS. In evaluating the needs of the program, we evaluated reasons for why some of our students were not defending an MS and inclusion of a non-thesis MS option would allow them to successfully attain an MS from our program. These include the following:

- The student leaves the program to join the workforce and cannot complete the degree. Some students seek employment to cover debt from their undergraduate education or have financial obligations that draw them to leave our program as full-time students. The demands of employment make it challenge to complete a graduate thesis that often requires time in a laboratory acquiring data for a thesis. The capstone project will enable a student to still demonstrate proficiency in Pharmaceutical Sciences at the Master's level without having to be embedded in a laboratory for hours a week to acquire thesis data.
- The student is on a fellowship that has a tight timeline. Many fellowship programs that fund our international students (i.e. Fulbright) have a very tight timeline of 2 years for attaining a MS degree. While many students can be successful under these circumstances, some students might not progress with thesis work in the timeframe or have challenges that don't easily allow them to switch major professors. The non-thesis option would allow those students to complete our program with an MS in Pharmaceutical Sciences and the capstone project will enable a student to still demonstrate proficiency in Pharmaceutical Sciences at the Master's level.
- We have a good number of BS Pharmaceutical Science (BSPS) undergraduates whom are finishing with their degree requirements by the fall of their senior year or very close. They often choose to take some graduate courses in the Spring of their senior year, but do not need them for BS degree completion. This path allows us to have our BSPS students enter our MS program and have a path for extra training as a non-thesis MS student before going to the workforce or attending graduate/medical school.

6. If applicable, please include the existing URI catalog language and proposed catalog changes **indicated in Track Changes**.

#### **6.a EXISTING LANGUAGE**

##### **MASTER OF SCIENCE**

Admission Requirements: GRE and Pharm.D. or bachelor's degree in pharmacy, chemistry, biological sciences, or allied sciences; TOEFL or IELTS (waived for applicants from countries where English is the primary language).

Program requirements: Successful completion of 30 credits of graduate study, including PHC 502, 2 seminar credits (PHC 693/694), PHC 599, and a thesis.

For specialization in medicinal chemistry and pharmacognosy: Three credits of BPS 530, BPS 535, or BPS 641; at least six credits of BPS 525, BPS 551, BPS 555, BPS 557, BPS 633, CMB 581, CMB 582, CHM 427, CHM 505, CHM 521, or CHM 522; Six to nine credits of PHC 599; Remaining elective credits in consultation with student's major professor.

For specialization in pharmaceuticals and pharmacokinetics: STA 409 or 411 or equivalent; Six to nine credits of 500- or 600-level BPS courses; Six to nine credits of PHC 599; Remaining elective credits at the 500/600 level in consultation with student's major professor.

For specialization in health outcomes: PHP 540, PHP 550, and PHP 580; at least six credits of graduate level statistic courses as determined in consultation with the student's major professor; seven to nine credits of PHC 599; three elective credits.

For specialization in pharmacology and toxicology: BPS 641 and 642; Three credits of BPS 530 and BPS 535; Six credits of BPS 436, BPS 442, BPS 521, BPS 546, and CMB 581; Six of PHC 599; Four to eight elective credits in consultation with student's major professor. Only one 400 level course can be used to complete required and elective program requirements.

#### **6.b REVISED LANGUAGE- (final language shown, not tracked changes)**

##### **MASTER OF SCIENCE (Thesis)**

Admission requirements: GRE and Pharm.D. or bachelor's degree in pharmacy, chemistry, biological sciences, or allied sciences; TOEFL or IELTS (waived for applicants who graduate from a school (BA/BS/PharmD) where English is the primary language).

Program requirements: Successful completion of 30 credits of graduate study, including PHC 502, 2 seminar credits (PHC 693/694), PHC 599, and a thesis.

For specialization in medicinal chemistry and pharmacognosy: Three credits of BPS 530, BPS 535, or BPS 641; at least six credits of BPS 525, BPS 551, BPS 555, BPS 557, BPS 633, CMB 581, CMB 582, CHM 427, CHM 505, CHM 521, or CHM 522; Six to nine credits of PHC 599; Remaining elective credits in consultation with student's major professor.

For specialization in pharmaceuticals and pharmacokinetics: STA 409 or 411 or equivalent; Six to nine credits of 500- or 600-level BPS courses; Six to nine credits of PHC 599. One additional 400-level course can be used to complete required and elective program requirements. Remaining elective credits at the 500/600 level in consultation with student's major professor.

For specialization in health outcomes: PHP 540, PHP 550, and PHP 580; at least six credits of graduate level statistic courses as determined in consultation with the student's major professor; seven to nine credits of PHC 599; three elective credits.

For specialization in pharmacology and toxicology: BPS 641 and 642; Three credits of BPS 530 or BPS 535; Six credits from any of the following: BPS 436, BPS 442, BPS 521, BPS 530, BPS 535, BPS 546, BPS550, and CMB 581, or PHP 540; Six credits of PHC 599; Four to eight elective credits in consultation with student's major professor. Two 400 level courses can be used to complete required and elective program requirements with Program Director approval.

## **MASTER OF SCIENCE (Non-Thesis)**

Admission requirements: GRE and Pharm.D. or bachelor's degree in pharmacy, chemistry, biological sciences, or allied sciences; TOEFL or IELTS (waived for applicants who graduate from a school (BA/BS/PharmD) where English is the primary language).

Program requirements: Successful completion of 30 credits of graduate study, including PHC 502, 2 seminar credits (PHC 693/694), PHC 599. For the non-thesis Master's degree, a capstone/culminating experience (e.g. major paper, written technical report, review article) approved by a faculty advisor and College of Pharmacy Program Director is required and should be taken in the third or fourth semester. The evaluation committee will consist of two faculty members from the area of specialization and one faculty member from outside of the department.

For specialization in medicinal chemistry and pharmacognosy: No more than 9 credits in special problems or seminar credit (BPS 597, BPS 598, PHC 599, PHC 693/694). At least twelve (12) credits of coursework in Pharmaceutical Sciences (BPS, PHC, or PHP course code, excluding BPS 597, BPS 598, PHC 599, PHC 693/694) is required, including BPS 552, and with at least six (6) additional credits in the medicinal chemistry and pharmacognosy area. The remaining elective credits will be completed in consultation with student's major

professor. One 400-level course can be used to complete required and elective program requirements.

For specialization in pharmaceuticals and pharmacokinetics: No more than 9 credits in special problems or seminar credit (BPS 597, BPS 598, PHC 599, PHC 693/694). A total of twelve (12) credits of coursework in Pharmaceutical Sciences (BPS, PHC, or PHP course code, excluding BPS 597, BPS 598, PHC 599, PHC 693/694) is required, with at least six (6) credits in pharmaceuticals and pharmacokinetics area, and 3 credits in STA 409 or 411 or equivalent. One additional 400-level course can be used to complete required and elective program requirements. The remaining elective credits will be taken in consultation with student's major professor.

For specialization in health outcomes: PHP 540, PHP 550 and PHP 580, 2-3 credits of PHC 693/694, and at least six credits of graduate level statistic courses. The remaining elective credits will be taken in consultation with student's major professor.

For specialization in pharmacology and toxicology: No more than 9 credits in special problems, or seminar, or thesis credit (BPS 597, BPS 598, PHC 599, PHC 693/694). A total of twelve (12) credits from coursework in Pharmaceutical Sciences (BPS, PHC, or PHP course code, excluding BPS 597, BPS 598, PHC 599, PHC 693/694) are required, with at least nine credits in the pharmacology and toxicology specialization. The remaining elective credits will be taken in consultation with student's major professor. Two 400-level courses can be used to complete required and elective program requirements.

## **6.c REVISED LANGUAGE with TRACKED CHANGES**

### MASTER OF SCIENCE (Thesis)

Admission Requirements: GRE and Pharm.D. or bachelor's degree in pharmacy, chemistry, biological sciences, or allied sciences; TOEFL or IELTS (waived for applicants from countries where English is the primary language).

Program requirements: Successful completion of 30 credits of graduate study, including PHC 502, 2 seminar credits (PHC 693/694), PHC 599, and a thesis.

For specialization in medicinal chemistry and pharmacognosy: Three credits of BPS 530, BPS 535, or BPS 641; at least six credits of BPS 525, BPS 551, BPS 555, BPS 557, BPS 633, CMB 581, CMB 582, CHM 427, CHM 505, CHM 521, or CHM 522; Six to nine credits of PHC 599; Remaining elective credits in consultation with student's major professor.

For specialization in pharmaceuticals and pharmacokinetics: STA 409 or 411 or equivalent; Six to nine credits of 500- or 600-level BPS courses; Six to nine credits of PHC 599; One additional 400-level course can be used to complete required and elective program

requirements. Remaining elective credits at the 500/600 level in consultation with student's major professor.

For specialization in health outcomes: PHP 540, PHP 550, and PHP 580; at least six credits of graduate level statistic courses as determined in consultation with the student's major professor; seven to nine credits of PHC 599; three elective credits.

For specialization in pharmacology and toxicology: BPS 641 and 642; Three credits of BPS 530 and/or BPS 535; Six credits of from any of the following: BPS 436, BPS 442, BPS 521, BPS 530, BPS 535, BPS 546, BPS 550, PHP 540, and/or CMB 581; Six credits of PHC 599; Four to eight elective credits in consultation with student's major professor. Only one Two 400 level courses s can be used to complete required and elective program requirements with Program Director approval.

### **MASTER OF SCIENCE (Non-Thesis)**

Admission requirements: GRE and Pharm.D. or bachelor's degree in pharmacy, chemistry, biological sciences, or allied sciences; TOEFL or IELTS (waived for applicants who graduate from a school (BA/BS/PharmD) where English is the primary language).

Program requirements: Successful completion of 30 credits of graduate study, including PHC 502, 2 seminar credits (PHC 693/694), PHC 599. For the non-thesis Master's degree, a capstone/culminating experience (e.g. major paper, written technical report, review article) approved by a faculty advisor and College of Pharmacy Program Director is required and should be taken in the third or fourth semester. The evaluation committee will consist of two faculty members from the area of specialization and one faculty member from outside of the department.

For specialization in medicinal chemistry and pharmacognosy: No more than 9 credits in special problems or seminar credit (BPS 597, BPS 598, PHC 599, PHC 693/694). At least twelve (12) credits of coursework in Pharmaceutical Sciences (BPS, PHC, or PHP course code, excluding BPS 597, BPS 598, PHC 599, PHC 693/694) is required, including BPS 552, and with at least six (6) additional credits in the medicinal chemistry and pharmacognosy area. The remaining elective credits will be completed in consultation with student's major professor. One 400-level course can be used to complete required and elective program requirements.

For specialization in pharmaceutics and pharmacokinetics: No more than 9 credits in special problems or seminar credit (BPS 597, BPS 598, PHC 599, PHC 693/694). A total of twelve (12) credits of coursework in Pharmaceutical Sciences (BPS, PHC, or PHP course code, excluding BPS 597, BPS 598, PHC 599, PHC 693/694) is required, with at least six (6) credits in pharmaceutics and pharmacokinetics area, and 3 credits in STA 409 or 411 or equivalent. One additional 400-level course can be used to complete required and elective program requirements. The remaining elective credits will be taken in consultation with student's major professor.



For specialization in health outcomes: PHP 540, PHP 550 and PHP 580, 2-3 credits of PHC 693/694, and at least six credits of graduate level statistic courses. The remaining elective credits will be taken in consultation with student's major professor.

For specialization in pharmacology and toxicology: No more than 9 credits in special problems, or seminar, or thesis credit (BPS 597, BPS 598, PHC 599, PHC 693/694). A total of twelve (12) credits from coursework in Pharmaceutical Sciences (BPS, PHC, or PHP course code, excluding BPS 597, BPS 598, PHC 599, PHC 693/694) are required, with at least nine credits in the pharmacology and toxicology specialization. The remaining elective credits will be taken in consultation with student's major professor. Two 400-level courses can be used to complete required and elective program requirements.

## **7. Signature of the President**

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David M. Dooley

NOTICE OF CHANGE FORM

Notice of Change for: FULL TIME MBA program

Date: March 8, 2019

A. PROGRAM INFORMATION

1. Name of institution

University of Rhode Island

2. Name of department, division, school or college

Department: Business

College: Business

3. Intended initiation date of program change. Include anticipated date for granting first degrees or certificates, if appropriate.

Initiation date: September 1 2019

First degree date: August 2020

4. Intended location of the program

Providence

5. Summary description of proposed program (not to exceed 2 pages).

The University of Rhode Island's one-year MBA Program will be changed from 45 required credit hours to 42 required credit hours. For the 2019-2020 academic year, we are making the adjustment from 45 credits to 42 credits by removing MBA516 (1 credit): Professional Writing, Speaking, and Presenting; removing MBA528 (3 credits): Business Integration II; and removing MBA529 (1 credit): Career Planning from required courses. We are adding one (3 credits) elective, which would likely be taken over the summer. Currently, one year students take 7 credits over the summer. The temporary course scheduling change will cut 1 overload credit in the fall semester and 4 overload credits in the spring semester. Nine credits will likely be taken over the summer.

6. If applicable, please include the existing URI catalog language and proposed catalog changes **indicated in Track Changes.**

The One-Year M.B.A. program is a nonthesis program consisting of a 42-credit integrated curriculum. Students take classes during the fall and spring semesters. During the summer, they complete their program by participating in an internship, elective courses s or directed study work. For the One-Year M.B.A., completed application packages must be received by April 15 (early decision) with a final deadline of June 30 for U.S. residents and February 15 for

international applicants; applications received after that date are reviewed on a space-available basis.

**7. Signature of the President**

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David M. Dooley

**Notice of Change form**

**Notice of Change for:** Degree requirements - MS in Nutrition and MS in Nutrition Dietetic Internship

**Date:** 2-25-2019

**A. PROGRAM INFORMATION**

**1. Name of institution**

University of Rhode Island

**2. Name of department, division, school or college**

Department: Nutrition and Food Sciences  
College: Health Sciences

**3. Intended initiation date of program change. Include anticipated date for granting first degrees or certificates, if appropriate.**

Initiation date: September 2019  
First degree date: May 2020

**4. Intended location of the program**

Kingston

**5. Summary description of proposed program (not to exceed 2 pages).**

We are requesting a minor change to the catalog language for the MS in Nutrition degree program (MS in Nutrition, and Combined MS in Nutrition Dietetic Internship). The current language is inconsistent, and this change will clarify the catalog description. The Department seminar is taught as a graded course (NFS 511) and as a satisfactory / unsatisfactory course (NFS 512). Students are required to have up to 2 credits of seminar towards their degree program (either NFS 511 or 512), but this is not clear in the catalog language. This change is being requested to help clarify the degree requirements.

**6. If applicable, please include the existing URI catalog language and proposed catalog changes indicated in Track Changes.**

## **MS of Nutrition – Catalog Description**

### **MASTER OF SCIENCE – NUTRITION**

Admission requirements: GRE and bachelor's degree. All applicants must have completed a minimum of two semesters of chemistry, and one each of biochemistry, anatomy or biology, human physiology, nutrition, and statistics. In addition, students must have completed an advanced nutrition course with a biochemistry prerequisite and an intermediate level statistics course. Students from other academic areas are encouraged to apply but must have physiology, biochemistry, nutrition, and statistics prior to admission.

Program requirements (30 credits): Thesis (6 credits), two credits of NFS 511 or NFS 512; a minimum of three credits in 400- or 500-level science courses; NFS 505, 553, and 554; three credits in a 400- or 500-level statistics course. All resident students are required to be continuously registered in NFS 511 or 512, but no more than two credits of NFS 511 or NFS 512 can be used for program credit. Applicants without undergraduate training in nutrition may be required to make up background courses without graduate credit.

## **Combined MS in Nutrition Dietetic Internship Program – Catalog Description**

### **COMBINED MASTER OF SCIENCE DIETETIC INTERNSHIP PROGRAM**

This program is designed for students who want to become Registered Dietitians by including an accredited Dietetic Internship (DI) program with the M.S. degree requirements. The DI has a specialization area in applied nutrition science. The DI is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606, 312.899.0040, ext. 5400, website: [eatright.org](http://eatright.org).

*Admission requirements:* students wishing to complete URI's Combined Master of Science Dietetic Internship (MSDI) must have an earned bachelor's degree with completion of the Accreditation Council for Education in Nutrition and Dietetics (ACEND) Didactic Program in Dietetics (DPD) requirements including the following courses: nutrition, general chemistry, organic chemistry, biochemistry, anatomy or biology, human physiology, and statistics. In addition, students must have completed an advanced nutrition course with biochemistry as a prerequisite. Applicants must submit an ACEND verification form or declaration of intent form signed by their DPD director. Enrollment is expected to be limited to twelve students. Program information and application deadlines can be obtained at [uri.edu/nfs/](http://uri.edu/nfs/).

*Program requirements (34 credits):* NFS 504, NFS 505; NFS 506, 553, and 554; two credits of NFS 511 or NFS 512; one credit apiece of NFS 507, 508, 581, 583, 584, and three credits of 591; three credits in a 400- or 500- level statistics course; six credits in Global Health and Applied Nutrition to be determined in consultation with the major professor. In addition to the program requirements for other M.S. students, MSDI students must complete a minimum of 1,200 hours of supervised practice experience in health care and community facilities. Students must satisfactorily complete the experiential rotations as well as M.S. degree requirements including completion of a culminating experience tailored to their interests including a significant paper with a literature review, identification of an area of need, development, implementation and evaluation of an intervention in order to receive an ACEND Verification Statement qualifying them to take the Dietetic Registration Examination as well as to apply for licensure to practice dietetics in Rhode Island.

## 7. Signature of the President

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David M. Dooley

*Cathy English PhD, RD, LDN*

**Notice of Change form**

**Notice of Change for: Electrical Engineering Graduate Program**

**Date: November 8, 2018**

**A. PROGRAM INFORMATION**

**1. Name of institution**

University of Rhode Island

**2. Name of department, division, school or college**

Department: **Electrical, Computer and Biomedical Engineering**

College: **College of Engineering**

**3. Intended initiation date of program change. Include anticipated date for granting first degrees or certificates, if appropriate.**

Initiation date: **Fall 2019 semester**

First degree date: **not applicable**

**4. Intended location of the program**

**Current location (temporary): URI at Schneider Electric;**

**Permanent location: new Engineering building (upon completion)**

**5. Summary description of proposed program (not to exceed 2 pages).**

**see attached**

**6. If applicable, please include the existing URI catalog language and proposed catalog changes **indicated in Track Changes**.**

**see attached**

**7. Signature of the President**

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David M. Dooley

**Summary description:**

The two proposed changes affect only the Electrical Engineering (ELE) graduate program requirements.

The first proposed change requires all full-time graduate students (MS and PhD) to enroll in ELE 601 *Graduate Seminar* (1 credit) every semester the course offered (typically the fall semester). This change emphasizes the need for life-long learning and exposes graduate students to problems, research, and solutions that may be outside their area of expertise.

The second proposed change affects only the non-thesis MS program when students choose to pass a written comprehensive examination as the Graduate School's required "culminating experience." Currently the non-thesis MS program degree requirements for the comprehensive examination option include "...one course involving significant independent research and a substantial paper..." This proposal eliminates the "significant independent research" course and "substantial paper" requirements. Since students opting for the comprehensive examination typically continue graduate study toward a PhD, these students will conduct independent research and write substantial papers as part of their PhD work.

**URI catalog language:**

In the Graduate Program Description, Electrical Engineering, "Master of Science (M.S.)" section and "Doctor of Philosophy (Ph.D.)" section, append the new language:

All full-time graduate students are required to enroll in ELE 601 every semester the course is offered.

In the Graduate Program Description, Electrical Engineering, Master of Science:

The "Program Requirements" paragraph includes the language:

"For the non-thesis option, either a) successful completion of ELE 598 Masters Project, or b) a written comprehensive examination and one course involving significant independent research and a substantial paper is required."

Under this proposal, this language will be changed to:

"For the non-thesis option, either a) successful completion of ELE 598 Masters Project, or b) a written comprehensive examination is required."



NOTICE OF CHANGE FORM

Notice of Change for: **Biological & Environmental Sciences (BES)**

Date: **5 December 2018**

A. PROGRAM INFORMATION

1. Name of institution

University of Rhode Island

2. Name of department, division, school or college

Department:

College: **CELS**

3. Intended initiation date of program change. Include anticipated date for granting first degrees or certificates, if appropriate.

Initiation date: **1 September 2019**

First degree date:

4. Intended location of the program

**All campuses**

5. Summary description of proposed program (not to exceed 2 pages).

**We propose to eliminate the requirement for GRE scores for applicants to the BES program because:**

**(1) GRE scores have no predictive value for international applicants whose native language is not English;**

**(2) Taking GRE's is exceptionally difficult for many international applicants;**

**(3) GRE scores have very little predictive value of success for BES students regardless of nationality.**

6. If applicable, please include the existing URI catalog language and proposed catalog changes **indicated in Track Changes**.

**Admission requirements: ~~GRE general test and a~~ A bachelor's degree in a biological or physical science, natural resources science, math, engineering, or other appropriate discipline; the GRE test (general or subject) is optional and not required.**

7. Signature of the President

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David M. Dooley