


Serial Number #18-19-4B

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

1. The attached BILL titled, the Curriculum and Standards Committee Report #2018-19-2: Curricular Changes, is forwarded for your consideration.
2. This BILL was adopted by vote of the Faculty Senate on October 18, 2018.
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 November 8, 2018 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

October 18, 2018

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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

10.24.18  
(date)

**UNIVERSITY OF RHODE ISLAND FACULTY SENATE**  
**October 18, 2018**

**Faculty Senate Curriculum and Standards Committee**  
**Report 2018-19-2**

At the October 4, 2018 meeting of the Curricular and Standards Committee and by electronic communication, the following matters were considered and are now presented to the Faculty Senate.

**SECTION II**  
**Curricular Matters Which Require Confirmation by the**  
**Faculty Senate**

**PROGRAM CHANGES:**

**COLLEGE OF ARTS & SCIENCES:**

**BA - Film Media (See Appendix A)**

Add COM 307 & COM 410 to existing list of film production and elective courses for B.A. in Film Media

**BA - Public Relations major (See Appendix B)**

Allow PRS 360 as Social Media Option

**BA - Anthropology major (See Appendix C)**

Allow APG 401, 399 or 417 to be used as theory course options

**COLLEGE OF ENVIRONMENT & LIFE SCIENCES**

**BA and BS - Marine Affairs (See Appendix D)**

MAF 310: Communication and Marine Affairs that was recently approved by the Faculty Senate. We are now requesting that MAF 310 be added to the MAF concentration list for MAF BA & BS majors.

**BS - Plant Sciences (See Appendix E)**

Delete AVS 101, AVS 102, and AVS 132 as required and replace with PLS 215 Plant Propagation and PLS 250 Plant Breeding and Genetics.

**BS - Natural Resource Economics (See Appendix F)**

Remove BIO 101/103 and CHM 101 or 103 as requirements

Notice of Change form

Notice of Change for: Film/Media

Date: 4.27.2018

**A. PROGRAM INFORMATION**

**1. Name of institution**

University of Rhode Island

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

Department: Film/Media

College: Arts & Sciences

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

Initiation date: September, 2018

First degree date: December, 2018

**4. Intended location of the program**

Kingston

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

The Film/Media program would like to add COM 307 and COM 410 (when the topic is Advanced Audio Communication) to its already existing list of film production and elective courses (see attached curriculum worksheet). COM 307, Audio Communication in the Media, focuses on the examination of techniques and production of audio communication, while COM 410, Advanced Topics in Communication Studies, serves as the second part in this series in audio communication. These courses fulfill a very essential learning area for FLM majors, as they need to gain experience in developing sound design for film as well as elements of audio communication including commercials, news reporting, sports commentary, monologues, narration and voice-over work.

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

7. Signature of the President

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David M. Dooley

## Film/Media

Part of the Harrington School of Communication and Media ([uri.edu/harrington](http://uri.edu/harrington)), the Film/Media Program offers a Bachelor of Arts (B.A.) degree and a minor.

Faculty: Rebecca Romanow, Director. Professors Sama, Swift, Trimm, Walton, and Wood; Associate Professors Chadha, De Bruin, Echevarría, Healey- Jamiel, Mandel, Meagher, and Moore; Assistant Professors Kealhofer-Kemp and Wyatt; Adjunct Professor DeSchepper; Adjunct Assistant Professors Bergstrom, Neugent, Tierney and Zorabedian; Senior Lecturer Romanow; Lecturer Brown.

The Major. Film/Media is an interdisciplinary program offering hands-on experience in documentary, experimental, narrative, and new media production, balanced with an emphasis on international cinemas, film/media history, criticism, and theory. Our curriculum reflects the dynamic and diverse nature of this field, approached from a perspective of film history and media theory. Students learn to work with the evolving and overlapping technologies involved in the production of moving images (including film, digital video, 3D animation, game design, and new media), with an understanding of the broadening and globalization of their cultural and aesthetic contexts. A wide range of courses is available to the film/media student—courses that examine the historical, theoretical, and global approaches to the analysis and creation of moving images. The film/media program prepares students for careers in such areas as independent filmmaking; animation and media design; film and television industries; advertising, marketing, and public relations; and media criticism. Graduates of this program are also prepared to continue with **graduate studies, either in film and media production for an M.F.A., or in a master's or doctoral program in film and media studies.**

Students majoring in film/media must complete a minimum of 31 credits (maximum 46) in approved courses toward the major. FLM 101 or FLM 101H is a required prerequisite. All students must complete the core courses: FLM 110, FLM 203 (or ENG 302), FLM 204 (or FLM 205), including the senior-level seminar FLM 495; a minimum of 6 credits from the production and technique category and 6 credits from the critical studies category; a minimum of 3 elective credits in courses that count toward the film major (following). This wide range of choices in film/media courses permits students to design a major that will meet both personal and professional goals. Students must have a plan of study approved by an academic advisor in the film media program before beginning their coursework in the major.

Production & Technique: These courses focus on the different approaches to and practices of film/video production—how moving images are created, designed, and used to serve a variety of functions: ART 204, 215, 304, 306, 316; COM 307, 341, 342, 410, 445; FLM 110, 351, 401, 445, 491A; JOR 221, 331.

Critical Studies: These courses emphasize the important traditions of genre and the literary and aesthetic approaches toward understanding and valuing film/media, and integrates them into their broad historical, cultural, and ideological contexts: AAF 352; ART 374, 376, 377; CLS 451; COM 346, 414; ENG 205 D, 245, 300A, 300B, 302, 303, 304, 305D, 352, 451; FLM 203, 204, 205, 214, 352, 444, 451, 491B, 495; FRN 320; GWS 350; HIS 358; HPR 324, 411; ITL 315; JOR 311; SPA 320; THE 182. FRN 320, ITL 315, and SPA 320 are taught in English. Other courses may be used for this category with prior approval of the program director. The following topics courses have been pre- approved: COM 410 **Advanced Audio Communication**, HPR 324 Images of Masculinity in Films, HPR 324 Rebel Images in Films, HPR 411 Film and Video Practicum, and GWS 350 Women and Film. Other film-based courses

may count toward the major or the minor with the permission of the film/media program director.

A total of 120 credits is required for graduation. At least 42 of these must be in courses numbered 300 or above.

KEVIN MCCLURE URI

Inbox - URI FilmDirector April 23, 2018 at 12:52 PM

KU

Re: Audio Courses for to be added to the FLM major

To: RFROMANOW

Siri found updated contact info in this email: Kevin McClure other fax: (401) 874-4722

update... (x)

Hi Rebecca: Happy to support the use of Com 307 and Com 410 to be included in the FLM major.

Best,  
Kevin

On Mon, Apr 23, 2018 at 12:41 PM, Rebecca Fine Romanow <[rromanow@uri.edu](mailto:rromanow@uri.edu)> wrote:

Hi Kevin,

Thank you for your support for adding COM 307 and 410 to the list of courses that will count towards the FLM major/minor.

Can you respond with a statement for the curriculum committees indicating your approval?

Very best,

Rebecca

Rebecca Fine Romanow, PhD  
Director, Film/Media Program  
Harrington School of Communication and Media  
University of Rhode Island

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Kingston, RI 02881  
Office: +1.401.874.9474  
[rromanow@uri.edu](mailto:rromanow@uri.edu)

[Film/Media at the University of Rhode Island](#)  
[Film/Media Program on Facebook](#)

[Twitter: @URIFilm](#)  
Instagram: urifilm

**ABOUT THE FILM MEDIA DEGREE:**

The BA program in Film Media is an interdisciplinary program offering hands-on experience in documentary, experimental, and new media production, balanced with an emphasis on international cinemas, film/media history, criticism and theory. Our curriculum reflects the dynamic and diverse nature of this field, approached from a perspective of film history and media theory. Students learn to work with the evolving and overlapping technologies involved in the production of moving images, (including film, digital video, 3D animation, game design, and new media), with an understanding of the broadening and globalization of their cultural and aesthetic contexts.

**STEP 1:**

**Prerequisite to Major:**

Course	Semester	Credits	Grade
FLM 101* or 101H		4	

**Major Requirements:**

Course	Semester	Credits	Grade
FLM 110		4	
FLM 203* or ENG 302		4	
FLM 204* or 205*		4	
FLM 495		4	

Six (6) credits from *Production and Technique*:  
 ART 204, 215, 304, 316; COM 307, 341, 342, 410, 445; FLM 110, 351, 401, 445, 491A; JOR 221, 331


Six (6) credits from *Critical Studies*:  
 AAF 352; ARH 374, 376, 377; CLS 451; COM 346, 414; ENG 205 D, 245, 300A, 300B, 302, 303, 304, 305D, 352, 451; FLM 203\*, 204\*, 205\*, 352, 444, 451, 491B, 495; FRN 320; GWS 350; HIS 358; HPR 324, 411; ITL 315\*; JOR 311; SPA 320; THE 182


*3 credits FLM elective*

		3	
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*Optional Major Electives (do not exceed 46 FLM credits)*


**42 credits at the 300-level or higher**  
 (major and general education courses may fulfill this requirement)

Course	Credits	Course	Credits

**Free elective credits**  
 (to meet the 120 credits required for graduation):

Course	Credits	Course	Credits

**Pre-Approved Topics Courses**  
**COM 410: Advanced Audio Communication**  
**HPR 324: Images of Masculinity in Films**  
**HPR 324: Rebel Images in Film**  
**HPR 411: Film and Video Practicum**  
**GWS 350: Women and Film**

\*Course approved for general education credit

**Please note: Both major and cumulative GPA must be 2.00 or higher in order to graduate.**



**GENERAL EDUCATION GUIDELINES:** General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). No more than twelve credits can have the same course code (note- HPR courses may have more than 12 credits). General education courses may also be used to meet requirements of the major or minor when appropriate.

**STEP 2:**

General Education Credit Count			
At least 40 credits, no more than 12 credits with the same course code.			
Course	Cr.	Course	Cr.
Total Gen Ed credits			40

**STEP 3:**

General Education Outcome Audit	
	Course
<b>KNOWLEDGE</b>	
A1. STEM	
A2. Social & Behavioral Sciences	
A3. Humanities	
A4. Arts & Design	
<b>COMPETENCIES</b>	
B1. Write effectively	
B2. Communicate effectively	
B3. Mathematical, statistical, or computational strategies	
B4. Information literacy	
<b>RESPONSIBILITIES</b>	
C1. Civic knowledge & responsibilities	
C2. Global responsibilities	
C3. Diversity and Inclusion	
<b>INTEGRATE &amp; APPLY</b>	
D1. Ability to synthesize	
<b>GRAND CHALLENGE</b>	
G. Check that at least one course of your 40 credits is an approved "G" course	

**SEE OPPOSITE SIDE FOR PROGRAM REQUIREMENTS.**

**NOTE:** This worksheet sheet is a snapshot of your entire curriculum. You must work with your advisor each term to discuss requirements to keep you on course for timely progress to complete this major. Official requirements for graduation are listed in the University Catalog.

**Please note: Both major and cumulative GPA must be 2.00 or higher in order to graduate.**

Notice of Change form

Notice of Change for: Communications Studies/Public Relations

Date: 05/22/2018

**A. PROGRAM INFORMATION**

**1. Name of institution**

University of Rhode Island

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

Department: Communication Studies

College: Arts and Sciences

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

Initiation date: spring 2019

First degree date: Spring 2021

**4. Intended location of the program**

Kingston Campus, University of RI

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

We would like to add an additional course, PRS 360 Strategic Sports Communication and Media, to the PR social media focus area. The addition of elective courses to the PR major and focus areas serves our majors well.

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

This interdisciplinary major combines a liberal arts education with the skills important to a career in public relations. Working with the public relations advisor, students will develop a specific program of studies.

Students must complete the following courses before being accepted into the major: PRS 100: *Intro to Public Relations* and COM 100: *Fundamentals of Communication*. Students apply to the public relations program in September of each year. The major requires an overall GPA of 2.50 and a 2.50 in the pre-major courses.

The major requires two pre-major courses (PRS 100, COM 100) and 30 credits. Students enroll in the following courses once accepted to the major: PRS 320, 340, 441, 491; COM 381; WRT/PRS 331 (pre-requisite of a 200-level WRT course), and JOR /PRS 341 (21). Students must complete three courses (9 credits) in one of the following focus areas.

*Entrepreneurial*: BUS 140, 341, 365, 449, 468; COM 202, 302, 351, 402; WRT 227

*Event Management*: ART 204, 213; COM 202, 221, 251, 302, 351, 445; PRS 200; WRT 201

*Social Media*: ART 204; COM 202, 246, 346, 446; PRS 300; PRS 360; PRS/COM 442; WRT 201, 235

A student must maintain a cumulative GPA of 2.00 to meet graduation requirements. A total of 120 credits is required for graduation. At least 42 of these must be at the 300-level or above.

## 7. Signature of the President

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David M. Dooley

**Notice of Change form**

**Notice of Change for Anthropology Major (BA)**

**Date:** May 18, 2018

**A. PROGRAM INFORMATION**

**1. Name of institution**

University of Rhode Island

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

Department: Sociology and Anthropology  
College: Arts and Sciences

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

Initiation date: Spring 2019  
First degree date (w/ new requirements): Spring 2020

**4. Intended location of the program**

Kingston Campus

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

We are seeking to make one change to the anthropology core curriculum. Presently, APG 401 is the only required theory course and we wish to expand the theory options. These options will allow our four-field anthropology faculty more flexibility in scheduling and in offering a variety of courses that include the subfields beyond cultural anthropology, thus strengthening the students' ability to gain theoretical insights and perspectives across the subfields. So instead of listing APG 401 under required courses, as we do now, we wish to move it to a theory requirement list where 401 is grouped with two other choices, one in archaeology (417) and one in biological anthropology (399).

The new anthropology curriculum requirements will be as follows:

**REQUIRED COURSES:**

- APG 200: Language and Culture (3 credits)
- APG 201: Human Origins and Evolution (3 credits)
- APG 202: Introduction to Archaeology (3 credits)
- APG 203: Cultural Anthropology (3 credits)

- APG 427: Senior Seminar: Unity of Anthropology (capstone: 3-credit seminar + 1-credit independent study)

**METHODS REQUIREMENT** (Students must choose **one** of the following 3-credit courses):

- APG 302: Methods of Anthropological Inquiry (focus on cultural anthropology)
- APG 411: Paleoanthropology
- APG 412: Primate Behavior and Organization
- APG 417: Archaeological Method and Theory\*

**THEORY REQUIREMENT** (Students must choose **one** of the following 3 credit courses)

- APG 399: Sex and Reproduction in Our Species
- APG 401: (History of Anthropological Theory) Anthropological Theory and Practice
- APG 417: Archaeological Method and Theory\*

\*Does not fulfill both methods and theory requirements.

**ELECTIVES:**

Students must take at least 3 elective courses (9 credits). Electives may be any anthropology classes that are offered (additional methods and theory courses could count as electives). No more than 6 credits in independent study and/or field experience courses may be used.

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

In addition to changing the catalog language pertinent to this proposal, we fixed/updated an error in the present catalog where the total credit count of "30" did not reflect our 2016 addition of a 4-credit capstone requirement.

**CATALOG LANGUAGE CHANGES:**

Students desiring to major in anthropology must complete a total of 31 credits (maximum 46 credits) in anthropology including introductory courses: APG 200, 201, 202, and 203 (12 credits); methods courses: APG 302, 411, 412, or 417 (3 credits); theory courses: APG 399, 401, or 417 (3 credits; 417 cannot fulfill both theory and methods requirements); and the capstone course: APG 427 (4 credits). The remaining nine credits may be from any APG course. No more than six credits in independent study and/or field experience courses may be used toward the ~~30~~31 credits required for the major.

**7. Signature of the President**

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David M. Dooley

## Notice of Change form

**Notice of Change for:** Marine Affairs BS & BA degrees

**Date:** 4/17/2018

### A. PROGRAM INFORMATION

**1. Name of institution**

University of Rhode Island

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

Department: Marine Affairs

College: Environment and Life Sciences

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

Initiation date: September 2018

First degree date: May 2022

**4. Intended location of the program**

Kingston Campus

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

Attached

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

Attached

**7. Signature of the President**

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David M. Dooley

## 5. Summary description of proposed program change

As the field of Marine Affairs continues to evolve, it has become clear that Marine Affairs professionals need to have not only the content knowledge to understand coastal communities and the marine environment, but also the skills to facilitate policy discussions and contribute meaningfully to coastal and marine resource management. While many MAF classes infuse these skills into their lessons, no single class focuses primarily on these skills. To fill this gap in the curriculum, the MAF program has developed a new course, MAF 310: Communication and Marine Affairs that was recently approved by the Faculty Senate. We are now requesting that MAF 310 be added to the MAF concentration list for MAF BA & BS majors.

The goal of MAF 310 is to provide marine affairs students with an introduction of how to communicate effectively with a variety of different stakeholders, in different contexts, and for different purposes. Students in MAF 310 will assume the roles of natural resource managers in government, non-profit, and policymaking organizations, and will need to learn how to communicate across several boundaries in their “roles”. The communication and boundary spanning theories covered in class relate specifically to small group communication, public communication, and professional communication. The course blends traditional lecture and experiential learning methods, giving students a strong foundation of key communication and boundary spanning theories and actual practice putting those theories into use in professional practice.



## Marine Affairs

URI's Department of Marine Affairs offers the following degrees: B.A., B.S., M.A., M.M.A. (Master of Marine Affairs), and Ph.D.

The B.A. and B.S. in marine affairs focus on coastal and ocean areas and examine environments, resources, and uses from a variety of perspectives. Both degrees qualify for New England Regional Tuition. Topics include conservation, ocean policy and law, climate adaptation and resilience, tourism and recreation, environmental justice, ocean energy resources, coastal and island communities, ports and shipping, fisheries and marine ecosystems, spatial planning and management.

A Marine Affairs major establishes a background for careers in the public or private sectors in a wide variety of marine-related fields. Typical areas of employment include positions in government concerned with coastal zone, environmental, or fishery management, and marine transportation. In the private sectors, students have secured positions in environmental consulting firms, marine insurance, public interest nongovernmental organizations, marinas, ports, and companies involved in shipping. The major serves well as an educational background for continued study in law, especially environmental, fishery, coastal zone, admiralty, and ocean law. Students have also entered graduate and professional programs in environmental management, public administration, community planning, marine affairs, and related fields.

Students in the Department of Marine Affairs who participate in the New England Regional Student Program must maintain a 2.80 G.P.A. and take at least one MAF course per year to retain their New England regional tuition status. Failure to meet these objectives will result in suspension of the reduced tuition privilege. Reinstatement may occur if the student meets these requirements for one year after the time of the suspension.

**Bachelor of Arts in Marine Affairs.** Students selecting this field are required to complete the following required MAF courses (12 credits): MAF 100, 120, 220, and 410 [capstone]. Three of the following courses in social sciences & humanities (at least two must be in MAF): MAF 300, [310\\*](#), 312\*, 340, 373 (370), 413\*, 445, 465, 471\*, 472\*, 482, 499\*, EEC 105, PSC 113, PSC 116, SOC 100, SOC 204, APG 203, or HIS 130. In addition, three of the following courses in coastal and marine policy and management: MAF [310\\*](#), 312\*, 320, 330, 413\*, 415, 461, 465\*, 471\*, 472\*, 475, 490, 499\*. Asterisk indicates a class that could count in either category, but can only be counted once. Students must also take STA 220 or 308 and OCG 108G, 110, 111, 123G or 301. STA 308 requires MTH 103, 107, or 131 or permission of instructor.

A total of 120 credits is required for graduation. At least 42 of these credits must be in courses numbered 300 or above.

**Bachelor of Science in Marine Affairs.** Students selecting this field must complete the following required MAF courses (15 credits): MAF 100, 120, 220, 410 [capstone], 482. Three of the following courses in social sciences & humanities (two must be in MAF): MAF 300, [310\\*](#), 312\*, 340, 373 (370), 413\*, 445, 465, 471\*, 472\*, 482, 499\*, EEC 105, PSC 113, PSC 116,

SOC 100, SOC 204, APG 203, or HIS 130. In addition, three of the following courses in coastal and marine policy and management: MAF 310\*, 312\*, 320, 330, 413\*, 415, 461, 465\*, 471\*, 472\*, 475, 490, 499\*. Asterisk indicates a class that could count in either category, but can only be counted once.

In addition to the above requirements, students must take OCG 108G, 110, 111, 123G or 301; STA 308 or 409. STA 308 requires MTH 103, 107, or 131 or permission of instructor. STA 409 requires MTH 131. Students must also select a total of 18 credits from classes with the following prefix, of which nine must be at the 300 level or above: AFS, BIO, CHM, EEC, GEO, NRS, OCE, OCG, PHY, STA.

A total of 120 credits is required for graduation.

## Notice of Change form

Notice of Change for: Plant Sciences B.S. degree

Date: April 24, 2018

### A. PROGRAM INFORMATION

1. Name of institution

University of Rhode Island

2. Name of department, division, school or college

Department: Plant Sciences and Entomology

College: Environment and Life Sciences

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

Initiation date: September 2018

First degree date: May 2022

4. Intended location of the program

Kingston Campus

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

The proposed program change affects the pre-professional course requirements for the Sustainable Crop Production track. We will no longer require students to take AVS 101, AVS 102, and AVS 132. Instead, students will be required to take PLS 215 Plant Propagation and PLS 250 Plant Breeding and Genetics. The AVS courses were originally included in the requirements for the Sustainable Crop Production track to serve students who wished to integrate Crop Production and Animal Management without double-majoring. However, the Sustainable Agriculture and Food Systems B.S. now serves these students. Changing the pre-professional requirements for the Sustainable Crop Production track makes them identical to the pre-professional requirements for the Turfgrass Management and Ornamental Horticulture tracks, allowing students to delay selection of a track until their junior year.

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

The Plant Sciences degree requires a total of 120 credits: 29-30 credits of pre-professional natural sciences that all majors must take including PLS 150, PLS 200, PLS 215, PLS 250, PLS 255, BIO 101, BIO 103, BIO 102, BIO 104, CHM 103, CHM 105 (or CHM 101 and CHM 102) or their equivalent; 30 credits in concentration

courses; and 15 credits of supporting electives approved by a faculty advisor which are specific to the interests of the student.

*Turfgrass Management Track.* The turfgrass management option is intended primarily for students who are interested in managing golf courses, athletic fields, commercial turf properties, sod farms or any other facilities comprised primarily of turf. Students in this option will gain competencies in all aspects of turf production and management, with a focus on sustainable practices and integrated pest management systems. Additionally, students interested in landscape management may also fall under this option but may take slightly different concentration courses which will address some of the other aspects of managing large, heterogeneous landscape properties. These students may also take a number of classes in the Landscape Architecture program, which can fulfill their supporting electives.

~~In addition to the pre-professional courses all Plant Sciences majors must take, students in this track are also required to take PLS 215 and PLS 250.~~ Turfgrass Management students are **also** required to take 30 credits of concentration courses and it is suggested that in earning those credits, they take PLS 306, PLS 322, PLS 341, PLS 361, PLS 390, PLS 440, PLS 442, ENT 387 and ENT 411.

*Ornamental Horticulture Track.* The ornamental horticulture option is intended primarily for students who are interested in nursery management, greenhouse production, the floral industry and the production and management of woody and herbaceous materials for landscapes and urban areas. Students in this option will develop a wide set of skills allowing them to work in a diverse number of industries where ornamental plant production and management are practiced. Students interested in landscape management can also select this option, instead of the turfgrass management option, if their interests are focused more on trees than on turf. As with the turfgrass management option, these students may also take Landscape Architecture classes to fulfill supporting electives.

~~In addition to the pre-professional courses all Plant Sciences majors must take, students in this track are also required to take PLS 215 and PLS 250.~~ Ornamental Horticulture students are **also** required to take 30 credits of concentration courses and it is suggested that in earning those credits, they take PLS 306, PLS 331, PLS 350, PLS 353, PLS 354, ENT 385 or ENT 387 and ENT 411.

*Sustainable Crop Production Track.* The sustainable crop production option is intended for students with an interest in growing plants for food, managing food systems and developing sustainable approaches that minimize farming impacts on the environment while maintaining or improving the quality of food and the environment, where possible. ~~This option does require some animal science but its primary focus is on plant systems.~~ Students in this track will learn techniques and strategies for managing small, sustainable farming systems in addition to incorporating food production into the urban environment.

~~In addition to the pre-professional courses all Plant Sciences majors must take, students in this track are also required to take AVS 101, AVS 102 and AVS 132G.~~ Sustainable Crop Production students are **also** required to take 30 credits of concentration courses and it is suggested that in earning those credits, they take PLS 275, PLS 311, PLS 312, PLS 321, PLS 324, PLS 325, PLS 332, NRS 212, ENT 385 and ENT 411.

## 7. Signature of the President

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David M. Dooley

Student:

ID No.:

Advisor:

I. GENERAL EDUCATION (min 40 cr)		0
	Course No.	
<b>Knowledge</b>		
A1. STEM	BIO 101	0
A2. Social and Behavioral Sciences		0
A3. Humanities		0
A4. Arts and Design		0
<b>Competencies</b>		
B1. Write effectively		0
B2. Communicate effectively		0
B3. Mathematical, statistical or computation		0
B4. Information literacy	PLS 324	0
<b>Responsibilities</b>		
C1. Civic knowledge & responsibility		0
C2. Global responsibilities	BIO 102	0
C3. Diversity and inclusion		0
<b>Integrate &amp; Apply</b>		
D1. Ability to Synthesize	PLS 324	0
<b>Grand Challenge</b>		
G. Grand Challenge Course	PLS 132	0
Additional General Education Class		0
Additional General Education Class		0
Additional General Education Class		0

II. PRE-PROFESSIONAL & BASIC SCIENCES		Cr.
(29 credits required)		0
<b>A. Biology (8)</b>		
Principles of Biology I (BIO101/103; 4cr)		0
Principles of Biology II (BIO102/104; 4cr)		0
<b>B. Chemistry (4 cr)</b>		
CHM 101/102 or 103/105 (3,1) (S/F)		0
<b>C. Plant Sciences (10 cr)</b>		
Introductory Horticulture (PLS150; 3cr, S/F)		0
Plant Protection (PLS200; 4cr, F)		0
Intro. Horticultural Sci. (PLS255; 3cr, S)		0
<u>Plant Propagation (PLS 215; 4cr. S)</u>		
<u>Plant Breeding &amp; Genetics (PLS 250; 4cr. S)</u>		
<b>D. Animal Sciences (8 cr)</b>		
Intro. Animal Sci. (AVS 101/102; 3,1)		0

<b>Course Credits Required:</b>	120
<b>Course Credits Completed:</b>	0

<b>Approved for Graduation:</b>	
Advisor: _____	Date: _____

III. PROFESSIONAL CONCENTRATION (min 30 cr)		0
Course Description:	Course No.	Cr. Off:
<b>Suggested Courses:</b>		
Introductory Entomology	ENT 385 (3)	0 F
<i>or Insects of Turf and Ornamentals</i>	ENT 387 (3)	0 F
Pesticides and the Environment	ENT 411 (3)	0 S
Pasture and Grazing Management	PLS 275 (4)	0 S
Fruit Culture	PLS 311 (3)	0 S
Fruit Practicum	PLS 312 (2)	0 S
<u>Sustainable Grain Production</u>	<u>PLS 321 (4)</u>	<u>0 F</u>
Vegetable Culture	PLS 324 (4)	0 F
Vegetable Practicum	PLS 325 (2)	0 FS
Plant Pathology	PLS 332 (4)	0 S
<u>Agroecology and Food Systems</u>	<u>PLS 385 (4)</u>	<u>0 F</u>
Intro. to Soil Science	NRS 212 (3)	0 S/F
<b>Additional Concentration Courses:</b>		
<u>Animal Management I</u>	<u>AVS 323 (3)</u>	0 S
<u>Animal Management II</u>	<u>AVS 324 (3)</u>	0 S
<u>Plant Propagation</u>	<u>PLS 215 (4)</u>	0 S
<u>Agroecology and Food Systems</u>	<u>PLS 385 (4)</u>	<u>0 F</u>
<u>Bee Biology and Pollination Ecology</u>	<u>ENT 388 (3)</u>	
Power Units	PLS 322 (3)	0 S
Greenhouse Management	PLS 331 (3)	0 Alt. S
Weed Science	PLS 361 (3)	0 Alt. F
Soil Fertility and Plant Nutrition	PLS 375 (3)	0 F
Irrigation Technology	PLS 390 (3)	0 Alt. F

IV. EXPERIENTIAL LEARNING (up to 12 credits)		0
Course Description:	Course No.	Cr. Off:
Plant Sciences Internship I	PLS 399 (1-3)	0 F, S
Plant Sciences Internship II	PLS 399 (1-3)	0 F, S
Special Project/Independent Study	PLS 491 (1-3)	0 F
Special Project/Independent Study	PLS 492 (1-3)	0 S

V. SUPPORTING AND OTHER ELECTIVES (min 15 cr)		0
Course Description:	Course No.	Cr.
_____	_____	0
_____	_____	0
_____	_____	0
_____	_____	0
_____	_____	0
_____	_____	0

**Suggested Supporting Electives:**

Anthropology of Nutrition                      APG 301  
Migration in the Americas                      APG 415  
Feeds and Feeding                                  AVS 212  
Insect Biocontrol                                    ENT 519  
Food Sys., Sustainability & Health              NFS 504  
Soil Microbiology                                    NRS 426  
Plant Plagues                                         PLS 415  
plus courses in Resource Economics, Business, Aquaculture,  
Soil Science

**B.S. Plant Sciences- Sustainable Crop Production Effective Fall 2017**

**Sample 4 Year Plan**

**College of the Environment and Life Sciences**

**Freshman Year *Fall* Semester**

Course Code	Description	Cr	
URI 101	Freshmen Seminar	1	
*PLS 150	Plant Biology for gardeners	3	
*BIO 101,103	Principles of Biology I, Lab	4	
	*General Education Course	3-4	
	*General Education Course	3-4	
		<b>15-17</b>	<b>0</b>

**Freshman Year *Spring* Semester**

Course Code	Description	Cr	
PLS 215	Plant Propagation	4	
*BIO 102,104	Principles of Biology II, Lab	4	
*CHM 103,105	Introductory Chemistry, Lab	4	
	*General Education Course	3-4	
	Supporting or Free Elective	3-4	
		<b>15-17</b>	<b>0</b>

**Year 1 Milestones:** Earn 30 credits and a gpa of 2.0 or higher. Meet with your Advisor for ETHM option discussion.

**Sophomore Year *Fall* Semester**

Course Code	Description	Cr	
PLS 200	Plant Protection	4	
PLS 201	Plant Protection Practicum	2	
PLS 353	Landscape Plants	3	
NRS 212	Introduction to Soil Science	3	
	*General Education Course	3-4	
		<b>15-17</b>	<b>0</b>

**Sophomore Year *Spring* Semester**

Course Code	Description	Cr	
PLS 250	Plant Breeding and Genetics	4	
PLS 255	Horticulture Plant Science	3	
PLS 301,331, or 341	Nursery Crop or Floriculture and Greenhouse Management, or Introduction to Turf Management	3-4	
PLS 354	Landscape Plants II	3	
	*General Education Course	3-4	
		<b>15-17</b>	<b>0</b>

**Year 2 Milestones:** Earn 60 credits and a gpa of 2.0 or higher. Meet with your Advisor to discuss major, internships and research opportunities.

**Junior Year *Fall* Semester**

Course Code	Description	Cr	
ENT 387	Insects Turf & Ornamentals	3	
PLS 361	Weeds or PLS 390 Irrigation	3	
Pick 2: PLS 306 PLS 320 PLS 350	Landscape Management Landscape Design	6-7	
PLS 353 PLS 341	Herbaceous Plants Landscape Plants Introduction to Turf		
	Supporting or Free Elective	3-4	
		<b>15-17</b>	<b>0</b>

**Junior Year *Spring* Semester**

Course Code	Description	Cr	
PLS 442	Advanced Turf	3	
PLS 301 or 331	Nursery Crop or Floriculture and Greenhouse Management	4	
Pick 2: PLS 311 PLS 324 PLS 322 PLS 354	Fruit Vegetable Crop Power Units Landscape Plants II	6-7	
PLS 402	Plant Seminar	1	
		<b>15-17</b>	<b>0</b>

**Year 3 Milestones:** Earn 90 credits and a gpa of 2.0 or higher. Meet with your Advisor to prepare intent to graduate application for fall submission.

**Senior Year *Fall* Semester**

Course Code	Description	Cr	
PLS 440	Diseases of Turf and Orn.	3	
PLS 361 or PLS 390	Weed Science or Irrigation Technology	3	
Pick 2: PLS 306 PLS 320 PLS 350	Landscape Management Landscape Design	6-7	
PLS 353 PLS 471	Herbaceous Garden Plants Landscape Plants Plant Improvement		
PLS 399	Internship	3	
		<b>15-17</b>	<b>0</b>

Course Code	Description	Cr	
ENT 411	Pesticides and the Environment	3	
PLS 322	Power Units	3	
Pick 1: PLS 311 PLS 324 PLS 354	Fruit Vegetable Crop Landscape Plants II	3-4	
	Supporting or Free Elective	6	
		<b>15-17</b>	<b>0</b>

**Year 4 Milestones:** Earn 120 credits and a GPA of 2.0 or higher in CUM and CON. Complete all remaining required courses.

**Total Credits to Graduate= 120**

Effective Fall 2017

## Notice of Change form

**Notice of Change for:** Updates to the Undergraduate Program Curriculum

**Date:** 08/05/2018

### A. PROGRAM INFORMATION

**1. Name of institution**

University of Rhode Island

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

Department: Environmental and Natural Resource Economics  
College: College of the Environment and Life 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: n/a

**4. Intended location of the program**

URI Main Campus, Kingston, Rhode Island

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

The Department of Environmental and Natural Resource Economics is making the following modification to its existing undergraduate program:

Currently, we have two degree options: Option 1, Green Markets and Sustainability (aka GMS, 87% of ENRE majors), and Option 2, Environmental Economics and Management (aka EEM, 13% of ENRE majors).

For Degree Option 1, Green Markets and Sustainability (GMS) we propose to:

- **Drop the BIO 101/103 (4 credits) or BIO 105 requirement and add 4 credits to Basic and Supporting Science category.**
- **Drop CHM 101 or CHM 103 requirement and add 3 credits to Remaining Basic and Supporting Science Category.**

**Rationale.** This change will provide increased flexibility to tailor the degree towards environmental problems of students' interest. BIO105 (introductory biology for non-majors) was at the appropriate level and met the needs of the ENRE majors who are interested in habitat conservation, biodiversity and other environmental issues; however, this course will no longer be offered for the foreseeable future. The rigor of BIO101/103 does not fit the needs of ENRE major; they also are not a prerequisite for any other courses required for the GMS option. Students who wish to enroll in elective courses that require BIO 101/103 may take it as a Basic and Supporting Science Elective. [Similarly, CHM 100](#)



(Chemistry of our Environment) was the appropriate level and met the needs of the ENRE majors, but it is no longer offered at URI.

**Implementation.** This change will be initiated beginning in the Fall of 2019. Students currently enrolled in the existing programs and students admitted to URI under the current catalog will be allowed to complete their degrees under the existing program requirements or enrolling in the programs described above. Implementation of this change will not require additional resources. Attached are the curriculum sheets for both options with changes marked in red.

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

The major is comprised of two options: Green Markets and Sustainability (GMS) and Environmental Economics and Management (EEM). The two options are discussed below.

There are two options, a double major, and an energy certificate under the Environmental and Natural Resource Economics (ENRE) department. The two options under the ENRE major are: Green Markets and Sustainability (GMS) and Environmental Economics and Management (EEM). These options, the double major, and certificate are discussed below.

**Option 1: Green Markets and Sustainability (GMS).** This option is for students who wish to develop a deep understanding of social and economic systems as they relate to a sustainable environment. This option is designed to provide considerable flexibility so students can focus their studies to meet their professional goals. Twenty-four credits in concentration courses are required at the 300 level or above, with 15 credits in environmental and natural resource economics (EEC), including economics of natural resource management and policy (EEC 310), benefit-cost analysis (EEC 440), and a capstone course in environmental economics and policy (EEC 432), three credits in intermediate economic theory or intermediate microeconomics (ECN 328 or 323), and six credits in other concentration courses selected by students in consultation with their advisors. Up to nine concentration credits may be in economics (ECN) or business (BUS). A minimum of 21 credits in basic and supporting sciences are required in mathematics (MTH 103, 111, 131, or BUS 111), introductory statistics (STA 307, 308, 409, or BUS 210), and environmental geology or understanding the earth (GEO 100G or 103), ~~principles of biology (BIO 101/103), and general or introductory chemistry (CHM 101 or 103).~~ Applied calculus (MTH 131) is strongly recommended, especially for students who are considering going to graduate school. Supporting sciences can be selected from a broad range of subjects including aquaculture and fisheries technology, animal and veterinary science, biology, business (BUS 210 and 212 only), cell and molecular biology, chemistry, computer science, ecology, geology, genetics, mathematics, natural resources science, oceanography, physics, plant physiology, or statistics. An additional 27 credits in supporting electives allow the student either to develop a closely related focus area (e.g., green business) or to sample from a broad set of relevant courses.

**Option 2: Environmental Economics and Management (EEM).** This option is for students who seek a balanced focus on environmental sciences and environmental economics. The option requires 31 credits of basic sciences, including at least eight credits in principles of biology (BIO 101/103, 102/104); four credits in general or introductory chemistry (CHM 101/102 or 103/105); four credits in introduction to soil science (NRS 212); four credits in introductory ecology (BIO 262); four credits in understanding the earth (GEO 103); three credits in applied calculus (MTH 131); and four credits in introductory statistics (STA 308). The 24-credit concentration includes a minimum of 9 concentration credits in environmental and resource economics (listed under EEC), including economics of natural resource management and policy (EEC 310), benefit-cost analysis (EEC 440), and a capstone course in environmental economics and policy (EEC 432), as well as three additional credits in intermediate economic theory (ECN 328) or intermediate microeconomics (ECN 323). Students are also required to take a minimum of 12 concentration

credits selected from ecology, soils and watersheds, and geosciences. Students choose a minimum of 20 credits in supporting electives.

**7. Signature of the President**

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David M. Dooley

**THE UNIVERSITY OF RHODE ISLAND**

**Environmental and Natural Resource Economics - B.S.**

**Option: Green Markets and Sustainability**

120 Earned Credits Total

Student: \_\_\_\_\_

Student ID: \_\_\_\_\_

Advisor: \_\_\_\_\_

**ABOUT THE BS IN ENVIRONMENTAL & NATURAL RESOURCE ECONOMICS:**

**GREEN MARKETS & SUSTAINABILITY OPTION**

Green Markets and Sustainability (GMS) option is recommended for students who seek a career in business, governmental and non-governmental organizations dealing with a wide range of environmental topics, including: green business, renewable energy, fisheries, coastal management, sustainable development, and others. Students in this option will study areas such as management of our international fisheries and other marine resources, efficient use of land and water resources, and how green markets can protect the environment while also helping to alleviate global poverty. It is also recommended for students planning to do graduate studies in environmental economics, or go to law school with an interest in environmental law or international disputes involving natural resources. The GMS option has a stronger focus on environmental economics than EEM, and at the same time allows considerable flexibility for students to sample broadly from courses across the University or to develop a related focus area (e.g., green business). Please consult the Environmental & Natural Resource Economics website at: <http://web.uri.edu/enre/>

**REVIEW YOUR PROGRAM REQUIREMENTS:**

**Intro. to URI & Professional Courses: (10 credits)**

Course	Semester	Credits	Grade
URI 101		1	
*NRS 100		3	
*EEC 105		3	
EEC 205		3	

**WRITING 200+ Level Requirement: (3-4 credits)**

Course	Semester	Credits	Grade
WRT _____		3 or 4	

**BASIC & SUPPORTING SCIENCE (21-23 credits)**

*Required Basic & Supporting Science Courses (~~16-18 cr.~~ 9-11 cr.)*

Course	Semester	Credits	Grade
<del>*BIO 101/103</del>		4	
<del>*CHM 101; or *CHM 103</del>		3	
*GEO 100G (3); or *GEO 103 (4)		3 or 4	
*MTH _____ (see note below)		3	
STA 307, 308, 409, or BUS 210		3 or 4	

*Note: \*MTH 131 is strongly recommended. May substitute only with \*MTH 103, \*MTH 111, or \*BUS 111.*

**Remaining Basic & Supporting Science credits (~~5-7 cr.~~ 10-14 cr.):** Choose courses from these categories: AFS, AVS, BIO, BUS (210 & 212 only), CHM, CMB, CSC, GEO, MTH, NRS, OCG, PHY, PLS, and STA.

Course	Semester	Credits	Grade

\*Course approved for general education

Minimum 2.0 GPA required in major for graduation.  
Minimum 2.0 cumulative GPA required for graduation.

**CONCENTRATION Requirement: (24 credits)**

300 level or above; minimum 15 credits in EEC; up to 9 credits in ECN or BUS.

Course	Semester	Credits	Grade
ECN 323; or ECN 328		3	
EEC 310		3	
*EEC 432		3	
EEC 440		3	
EEC		3	
EEC		3	
EEC or BUS or ECN		3	
EEC or BUS or ECN		3	

**Supporting Electives (27 credits)**

See list of approved courses. →

Course	Semester	Credits	Grade

**Free Electives:** Courses taken beyond the requirements of the major and general education. A total of 120 earned credits is required for graduation.

Course	Semester	Credits	Grade