

UNIVERSITY OF RHODE ISLAND FACULTY SENATE

October 20, 2016

Faculty Senate Curricular Affairs Committee Five Hundred and Thirty-Fourth Report

At the September 26, 2016 meeting of the Curricular Affairs Committee and by electronic communication, the following matters were considered and are now presented to the Faculty Senate.

SECTION I Informational Matters

TEMPORARY COURSES

A. COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES:

PLS 498X, Teaching Practicum in Plant Sciences (1-3 crs.)

Teaching experience, for qualified undergraduate students, through direct involvement in planning and assisting in PLS courses. May include supervised participation in discussion groups, assisting in a laboratory course, or tutoring. (Practicum) Pre: Senior standing, previous enrollment in the course to be taught, and permission of instructor. Limited to PLS majors. May be repeated for a maximum of 3 credits. Not for graduate credit. S/U only.

ONLINE COURSES

The CAC has approved the following courses for online offering:

CLA 396, Myths of Rome (3 crs.)

SECTION II
Curricular Matters Which Require Confirmation by the
Faculty Senate

NEW COURSES

A. COLLEGE OF THE ARTS AND SCIENCES:

COM 447, Entertainment Media Research (3 crs.)

Examines the practice and development of market research across a range of media industry products, including TV, movies, and digital entertainment. (Lec. 3) Pre: junior standing or permission of instructor. Not for graduate credit.

CHN/EGR 413, Advanced Technical Chinese (3 crs.)

Lectures and seminar on advanced scientific and engineering topics in an international context. All reading, writing, and discussion will be conducted in Chinese. (Lec. 3) Pre: CHN 306 (or EGR 306) or permission of instructor. Not for graduate credit.

B. COLLEGE OF BUSINESS ADMINISTRATION:

BUS 475, Social Media for Marketing: Analytics and Strategy (3 crs.)

Analyze a brand's social media positioning, apply analytical skills to social network data for marketing research, and develop strategies for social media marketing that help meet broad marketing objectives. (Lec. 3) Pre: BUS 365 or 365H, or permission of the instructor.

C. COLLEGE OF PHARMACY:

PHP 444, Pharmacotherapy for Older Adults (3 crs.)

Explore how aging affects drug disposition and the risk of adverse drug events; explore assessment tools for evaluating elders; recognize an evidence-based approach to the treatment of geriatric syndromes, and understand differences in how frail elders are treated for chronic medical conditions in contrast to younger adults. (Lec. 3) Pre: Second professional-year standing in the PharmD program; or other health discipline students or graduate students with permission of the instructor. For graduate credit.

COURSE CHANGES

A. COLLEGE OF ARTS AND SCIENCES:

a. Change Course Number:

SPA 100 (111), Accelerated Elementary Spanish (6 crs.)

Accelerated elementary Spanish equivalent to 101 and 102. Develops basic communication skills in Spanish. Explores the products, practices and perspectives of Hispanic culture. (Lec. 6) (C2) (A3)

b. Change description:

FLM 203, Film Theory (4 crs.)

Introduction to film theory and criticism through examination of a variety of modes of film-making that explore specific topics and traditions in the history, art and development of the moving image. (Lec. 4) (A4) (B1)

c. Add cross-listing and change description:

CSC/COM 271, Web Design and Programming (4 crs.)

Cross-listed as (CSC), COM 271. Learn to communicate effectively using principles and techniques of client-side web design and programming. Explores HTML, CSS, and JavaScript; current and evolving web capabilities accessibility and usability, and workflow tools. (Lec. 2, Lab. 4)

d. Add cross-listing, change description and prerequisite:

CSC/COM 372, Dynamic Web Design and Programming (4 crs.)

Cross-listed as (CSC), COM 372. Web-based information technology for communication and delivery of dynamically generated content. Technology will include current practice and tools for server-side programming, client-side programming, third-party services, data storage, and security concerns. (Lec. 2, Lab. 4) Pre: CSC/COM 271 and junior standing in a degree-granting college or permission of instructor.

e. Change prerequisites:

COM 435, Directing Group Performance of Nondramatic Literature (3 crs.)

Practice in Reader's Theatre and Chamber Theatre. Emphasis on direction as a rhetorical device in group work with nondramatic literature and compilation of scripts for individual and group performance. (Lec. 3) Pre: COM 230 and junior standing or permission of instructor. In alternate years. Not for graduate credit.

FLM 351, Topics in Film Media Production (4 crs.)

Application of one or more production technologies in film media genres and analysis of their aesthetic implications. (Lec. 3, Lab. 2/Online) Pre: FLM 110 and sophomore standing or permission of instructor. May be repeated for a maximum of 12 credits with permission of the director and change of topic.

B. COLLEGE OF NURSING:

a. Change prerequisites:

NUR 203, Comprehensive Health Assessment (3 crs.)

Introduces the techniques of history taking and systematic health assessment of individuals across the life span. Recognition of normal findings is emphasized. (Lec. 2, Lab. 3) Pre: BIO 242 and 244, NUR 100, CHM 124, WRT 104 or 106, and permission of instructor.

b. Change course number, and prerequisite:

[Approved by General Education Committee on 9/8/16]

THN / NUR 270 (426), Loss Across the Lifespan (3 crs.) (H section will be added)

Cross-listed as (THN), NUR 270. Exploration of losses that occur across the lifespan, caused both by situational crisis and through development. Emphasis on individual grief responses and the impact these may have on one's future social and psychological growth. (Lec. 3) (A2) (B2)

CURRICULAR CHANGES

A. COLLEGE OF ARTS AND SCIENCES:

a. Economics – BA and BS:

Require students entering the major to have passed the two economics principles courses (ECN 201 and 202) with a C or better. They will be required to have passed an appropriate mathematics course with a C or better. Students in the Bachelor of Arts must now take a course in statistics. They can only substitute 3 rather than 6 credits from other departments for their economics elective credits and this substitution must be approved and filed with the Dean before the course is taken. Students in the Bachelor of Science must now complete a calculus course before taking the calculus based intermediate theory courses or the required course in mathematical economics.

B. COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES:

a. Marine Biology – BS

These changes enhance an Existing Program – B.S. Marine Biology in the Department of Biological Sciences (CELS). The addition of courses outside of BIO to the list of marine biology electives that count towards the major will enhance the interdisciplinary scope of the MBio major, will likely increase undergraduate enrollment in the OCG courses, will assist double majors (MBio/AFS; MBio/OCE) use these courses towards completion of both majors, and will increase the number of courses available to students seeking to complete the MBio minor.

C. SCHMIDT LABOR RESEARCH CENTER:

With the dissolution of the ASFCCE, it is proposed that the SLRC transfer to become organizationally responsible to the College of Business for administrative purposes. This change makes both practical and philosophical sense: CBA faculty teach SLRC courses, CBA Graduate curriculum aligns closely with the MS and Certificates in Labor Relations and Human Resources. The Center will retain its independence, as originally designed and graduate programs will remain within the jurisdiction of the Graduate School and Graduate Faculty.

The transfer would include the Graduate Certificate Program in Labor Relations and Human Resources, the Work, Labor, and Social Justice minor (formerly Labor Studies), the M.S. and M.S./J.D. in Labor Relations and Human Resources, and all LRS courses, which would now fall under CBA.

Notice of Change for Economics BA, BS

Date: February 8, 2016

A. PROGRAM INFORMATION

1. Name of institution

University of Rhode Island

2. Name of department, division, school or college

Department: Economics

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 2017 or sooner

First degree date: May 2017

4. Intended location of the program

Kingston

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

Students entering the major are now required to have passed the two economics principles courses (Ecn 201 and 202) with a C or better. They are required to have passed an appropriate mathematics course with a C or better. Students in the bachelor of arts must now take a course in statistics. They can only substitute 3 rather than 6 credits from other departments for their economics elective credits and this substitution must be approved and filed with the Dean before the course is taken. Students in the bachelor of science must now complete a calculus course before taking the calculus based intermediate theory courses or the required course in mathematical economics.

Justification: We increasingly find incoming students unprepared for the major. This creates difficulties in maintaining the necessary 2.0 average in major courses and ability to reason quantitatively in all courses, especially in the senior capstone seminar. In several cases students who did not do well enough to maintain their standing as business majors were advised to major in economics when one of the reasons they lost their CBA qualification was they got poor grades in the core economics courses. We would like the ability to help those students find more appropriate fields of study or to do remedial work so they are better prepared in economics.

Some students transferring to economics from other BS degrees want to take the economics BS even though they have done poorly in calculus. This creates difficulty as they struggle mightily when they take Economics 375, Intro. to Quantitative Methods I , generally in their last semester.

The new requirements are not particularly onerous but they should limit the number of students who are unprepared or take economics for the wrong reasons, and signal that the discipline may be more rigorous than students have been lead to believe.

When students have only three elective courses in the major it seems inappropriate that two of them can come from outside the major. The past practice has been that such courses could gain after the fact approval and while the current chair has tried to limit this practice it is hard to do. Making STA 308 a pre-requisite for all economics students – rather than an optional replacement for an elective course - solves some of this problem and should improve quantitative reasoning skills for the BA students. Limiting outside electives to one and requiring pre-approval should solve the quality control problem.

If applicable, please include the existing URI catalog language and proposed catalog language changes that relate to your request. (Included separately.)

6. Signature of the President

David M. Dooley

Economics

The Department of Economics offers a Bachelor of Arts (B.A.) and a Bachelor of Science (B.S.) degree in economics. The Bachelor of Arts degree provides a deep knowledge of the world's economy in the best traditions of the liberal arts. The B.S. (Applied) is designed for students who are interested in a somewhat more quantitative approach to the field with, perhaps, the goal of gaining a position that requires a working knowledge of economic analysis. A basic knowledge of calculus is required for the B.S. in Applied Economics. The B.S. (Theory and Methods) includes in-depth coursework in the Department of Mathematics and is designed for students planning on graduate work in economics.

Faculty:- Professor Bodah, McIntyre, chairperson. - Professors Burkett, Lardaro, ~~McIntyre,~~ Mead, Miller, ~~and Ramsay;~~ Associate Professor Van Horn; Assistant Professors Anderson, Molloy, Van Horn and Yang; Lecturers Dupuis, Jain, and Yang Sayanak; Professors Emeriti Barnett, Ramsay, Starkey, and Suzawa.

BACHELOR OF ARTS

BACHELOR OF ARTS

Students selecting this field must complete a minimum of 30 credits (maximum 48) in economics, including ECN 201 and 202 (6), 305 and 306 (6), 324 or 327 (3), 323 or 328 (3), and 445: (323 and 324 have calculus as a pre-requisite).

At least 9 credits must be completed from economics courses numbered 300 or above in addition to the core requirements. Students must achieve a minimum grade of C in both ECN 201 and ECN 202 or attain the permission of the department chair before majoring in economics.

In addition, students must complete:

MTH 107, MTH 111, MTH 131, MTH 141 or BUS 111 with a grade of C or higher

STA 308 or BUS 210

Students may substitute up to ~~six~~three credits from related courses taught by other departments. These substitutions must be approved by the economics department chairperson and filed with the Office of the Dean. ~~Three of these credits can be from statistics BUS 210, 212, STA 308, 409, or 412 and do not require departmental approval. Students planning to do graduate work in economics are encouraged to take ECN 375, 376 and at least one semester of statistics.~~ before taking the course.

If you are planning to do graduate work in economics, you are strongly encouraged to pursue a B.S. degree in economics.

A total of 120 credits is required for graduation. At least 42 of these must be in courses numbered 300 or above. In addition, students must have a G.P.A. of at least 2.00 overall and 2.00 in their major to graduate.

BACHELOR OF SCIENCE

BACHELOR OF SCIENCE

Students in this curriculum may elect one of two options, - applied economics or - economic theory and methods, and must inform the dean's office of the option.

~~**Applied Economics.** A minimum of 31 credits in economics including ECN 201, 202, 305, 327, 328, 375, 376, and 445. In addition, students must complete BUS 212 or MTH 451 or STA 308.~~

~~**Economic Theory and Methods.**~~ A minimum of 31 credits in economics including ECN 201, 202, 305, 327 or 324, 328 or 323, 375, 376, 445, and 445. at least two additional ECN courses numbered 300 or above.

Students must achieve a minimum grade of C in both ECN 201 and ECN 202 or attain the permission of the department chair.

In addition, students must complete: BUS 210, STA 308, STA 309 or MTH 451 and MTH 131 or MTH 141 with a grade of C or higher before taking ECN 323, ECN 324, and ECN 375.

~~**Economic Theory and Methods**~~ A minimum of 31 credits in Economics including: ECN 201, 202, 305, 324 or 327, 323 or 328, 376, 445 and at least three additional ECN courses numbered 300 or above.

Students must achieve a minimum grade of C in both ECN 201 and ECN 202 or attain the permission of the department chair.

In addition students must complete MTH 141, 142, 215, 243, 307, and 244 or 442 or 435. ~~This option is recommended for students preparing for graduate study in economics.~~

A total of 120 credits is required for graduation.

In addition, students must have a G.P.A. of at least 2.00 overall and 2.00 in their major to graduate.

Economics

The Department of Economics offers a Bachelor of Arts (B.A.) and a Bachelor of Science (B.S.) degree in economics. The Bachelor of Arts degree provides a deep knowledge of the world's economy in the best traditions of the liberal arts. The B.S. (Applied) is designed for students who are interested in a somewhat more quantitative approach to the field with, perhaps, the goal of gaining a position that requires a working knowledge of economic analysis. A basic knowledge of calculus is required for the B.S. in Applied Economics. The B.S. (Theory and Methods) includes in-depth coursework in the Department of Mathematics and is designed for students planning on graduate work in economics.

Faculty: Professor McIntyre, *chairperson*. Professors Burkett, Lardaro, Mead, Miller; Associate Professor Van Horn; Assistant Professors Anderson, Molloy, and Yang; Lecturers Dupuis, Jain, and Sayanak; Professors Emeriti Barnett, Ramsay, Starkey, and Suzawa.

BACHELOR OF ARTS

Students selecting this field must complete a minimum of 30 credits (maximum 48) in economics, including ECN 201 and 202 (6), 305 and 306 (6), 324 or 327 (3), 323 or 328 (3), and 445 (323 and 324 have calculus as a pre-requisite).

At least 9 credits must be completed from economics courses numbered 300 or above in addition to the core requirements. Students must achieve a minimum grade of C in both ECN 201 and ECN 202 or attain the permission of the department chair before majoring in economics.

In addition, students must complete:

MTH 107, MTH 111, MTH 131, MTH 141 or BUS 111 with a grade of C or higher

STA 308 or BUS 210

Students may substitute up to three credits from related courses taught by other departments. These substitutions must be approved by the economics department chairperson and filed with the Office of the Dean before taking the course.

If you are planning to do graduate work in economics, you are strongly encouraged to pursue a B.S. degree in economics.

A total of 120 credits is required for graduation. At least 42 of these must be in courses numbered 300 or above. In addition, students must have a G.P.A. of at least 2.00 overall and 2.00 in their major to graduate.

BACHELOR OF SCIENCE

Students in this curriculum may elect one of two options, applied economics or economic theory and methods, and must inform the dean's office of the option.

Applied Economics A minimum of 31 credits in economics including ECN 201, 202, 305, 327 or 324, 328 or 323, 375, 376, 445, and at least two additional ECN courses numbered 300 or above.

Students must achieve a minimum grade of C in both ECN 201 and ECN 202 or attain the permission of the department chair.

In addition, students must complete: BUS 210, STA 308, STA 309 or MTH 451 and MTH 131 or MTH 141 with a grade of C or higher before taking ECN 323, ECN 324, and ECN 375.

Economic Theory and Methods A minimum of 31 credits in Economics including: ECN 201, 202, 305, 324 or 327, 323 or 328, 376, 445 and at least three additional ECN courses numbered 300 or above.

Students must achieve a minimum grade of C in both ECN 201 and ECN 202 or attain the permission of the department chair.

In addition students must complete MTH 141, 142, 215, 243, 307, and 244 or 442 or 435.

A total of 120 credits is required for graduation. In addition, students must have a G.P.A. of at least 2.00 overall and 2.00 in their major to graduate.

Fwd: catalog changes for economics

Richard McIntyre <mcintyre@uri.edu>
To: Mary Michelini <mary_bradizza@uri.edu>

Tue, Aug 23, 2016 at 2:38 PM

Here is #3.

----- Forwarded message -----
From: Deborah Rosen <drosen@uri.edu>
Date: Tue, Aug 23, 2016 at 2:25 PM
Subject: Re: catalog changes for economics
To: Richard McIntyre <mcintyre@uri.edu>
Cc: Peggy Boyd <pfergus@uri.edu>

Ric,
Peg is on vacation but I've looked this over and we are fine with the change. It should not significantly impact our numbers in those courses.

Deborah Rosen, Ph.D.
Associate Dean College of Business Administration
Executive Director URI Transportation Center

On Tue, Aug 23, 2016 at 11:46 AM, Richard McIntyre <mcintyre@uri.edu> wrote:

Hi Peg,

I never received the note I need saying CBA is ok with these changes. Could you send me that as soon as you can. We want to be in the first wave of things facsen considers this fall.

r

Richard McIntyre
Professor, Chair, Department of Economics
University of Rhode Island
807 Chafee Social Science Center
401-874-4126

On Tue, May 24, 2016 at 2:48 PM, Richard McIntyre <mcintyre@uri.edu> wrote:

Peg, can you send me a note saying CBA is ok with these changes for the BA or does it have to be from Deb? I think it will have no impact on your enrollments but we need it anyway.

r

Richard McIntyre
Professor, Chair, Department of Economics
University of Rhode Island
807 Chafee Social Science Center
401-874-4126

On Tue, May 24, 2016 at 2:21 PM, Peggy Boyd <pfergus@uri.edu> wrote:

Thanks Rick, I forwarded this on to our academic advisors.

peg

Peg Ferguson Boyd
Assistant Dean University of Rhode Island
College of Business Administration
mfboyd@uri.edu
p: 401-874-2337
v: 401-874-4314
f: 401-874-2-4312
[www/uri.edu/business](http://www.uri.edu/business)

On Tue, May 24, 2016 at 11:34 AM, Richard McIntyre <mcintyre@uri.edu> wrote:

Mes amies,

As I believe I let you know we are making some changes in our programs to be sure students are prepared for a major in economics. In particular, for BA students we will now require "MTH 107, MTH 111, MTH 131, MTH 141 or BUS 111 with a grade of C or higher" as well as STA 308 or BUS 210. If you could please send me an acknowledgement of this change we will include it in our final proposal.

Most business students transferring or double majoring have been going the BS route although that may now change. There is no change in the math pre-req for them. They must pass a calculus course with a C or better, which may be important to know for advising purposes.

Both BA and BS students will now be required to have a C or better in Ecn 201 and 202. This may also affect advising.

Thanks and I look forward to receiving your acknowledgement of the math and stat change for the BA students.

r

Richard McIntyre
Professor, Chair, Department of Economics
University of Rhode Island
807 Chafee Social Science Center
[401-874-4126](tel:401-874-4126)

Fwd: catalog changes for economics

1 message

Richard McIntyre <mcintyre@uri.edu>
To: Mary Michelini <mary_bradizza@uri.edu>

Tue, Aug 23, 2016 at 11:42 AM

FYI

----- Forwarded message -----

From: James Baglama <jbaglama@uri.edu>

Date: Tue, May 24, 2016 at 11:25 AM

Subject: Re: catalog changes for economics

To: Richard McIntyre <mcintyre@uri.edu>

Hi, Ric.

These changes are OK with the math department.

Best,
Jim

James Baglama
Professor and Chair
Department of Mathematics
University of Rhode Island
jbaglama@uri.edu
<http://www.math.uri.edu/~jbaglama>
Phone: 401-874-2709
Fax: 401-874-4454

On May 24, 2016, at 11:23 AM, Richard McIntyre <mcintyre@uri.edu> wrote:

Jim,

Given that there is no math requirement in the new gen ed we are adding language to our BA program:
"MTH 107, MTH 111, MTH 131, MTH 141 or BUS 111 with a grade of C or higher."

MTH 107 is what we will advise them to take but this covers students who have taken more advanced courses. The grade requirement is new. The reasoning is that if they can't pass MTH 107 they should really consider a different major.

If I could get an acknowledgement that you are ok with this I will include it in our final proposal.

Thanks,

ric

Richard McIntyre
Professor, Chair, Department of Economics
University of Rhode Island
807 Chafee Social Science Center
[401-874-4126](tel:401-874-4126)

Fwd: econ catalog change and stats

1 message

Richard McIntyre <mcintyre@uri.edu>
To: Mary Michelini <mary_bradizza@uri.edu>

Tue, Aug 23, 2016 at 11:42 AM

----- Forwarded message -----

From: Joan Peckham <joan@cs.uri.edu>
Date: Tue, May 24, 2016 at 5:16 PM
Subject: Re: econ catalog change and stats
To: Ric McIntyre <mcintyre@uri.edu>

Rick, This is okay. Thank you for the reminder.

I will remind the statisticians of this likely increase in enrollments and we will include this in our planning. When do you expect this likely increase to hit our 308 classes?

Joan

> On May 24, 2016, at 11:17 AM, Richard McIntyre <mcintyre@uri.edu> wrote:

>

> Joan,

>

> You may recall that some time ago I asked you whether your department could handle us changing the BA requirements in economics to include STA 308. It is currently required for BS students. The BAs could take either STA 308 or BUS 210 so most of the students that come to us from BUS will take the latter. Based on current enrollment trends I expect this will increase demand by no more than 25 seats per semester.

>

> If you could send me an acknowledgement I will be able to include it in the final version of our proposal. Thanks,

>

> r

>

> Richard McIntyre

> Professor, Chair, Department of Economics

> University of Rhode Island

> 807 Chafee Social Science Center

> [401-874-4126](tel:401-874-4126)

Notice of Change for BS Marine Biology (CELS)

Date: December 2015

A. PROGRAM INFORMATION

1. Name of institution

University of Rhode Island

2. Name of department, division, school or college

Department: Biological Sciences

College: CELS

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

Initiation date: 2016

First degree date: 2017

4. Intended location of the program

Kingston campus

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

These changes enhance an Existing Program – B.S. Marine Biology in the Department of Biological Sciences (CELS). The addition of courses outside of BIO to the list of marine biology electives that count towards the major will enhance the interdisciplinary scope of the MBio major, will likely increase undergraduate enrollment in the OCG courses, will assist double majors (MBio/AFS; MBio/OCE) use these courses towards completion of both majors, and will increase the number of courses available to students seeking to complete the MBio minor.

If applicable, please include the existing URI catalog language and proposed catalog language changes that relate to your request.

The Major..... The balance of the 36 credits must be selected from the following Marine Biology electives: AFS **415**, 486; AVS 440, BIO 345, 354, 355, 365, 412, 418, 441, 455, 457, 469, 475, 485, 563; **OCE 575**; OCG 420, **480, 561**, 576.

Courses to be added as B.S. Marine Biology electives as indicated above in red:

AFS 415: Fishery Science

LEC: (3 crs.) Biology of aquatic resource animals, fisheries mensuration and assessment, fisheries ecology, fishing methods, aquatic resource management and conservation, fish and shellfish farming. (Lec. 3) Pre: AFS 315 and college mathematics; concurrent registration in 416.

OCE 575: Marine Bioacoustics

LEC: (3 crs.) Introduction to marine mammal hearing, sound production, and the uses of sound for communication and echolocation; dolphin sonars; analysis and processing of marine mammal signals including passive tracking; the effects of noise on marine mammals. (Lec. 3) Pre: OCE 471 or permission of instructor.

OCG 480: Introduction To Marine Pollution

LEC: (3 crs.) An introductory course in marine pollution emphasizing geochemical aspects of the sources, transport, and fate of pollutants in the coastal marine environment. (Lec. 3) Pre: one semester of general chemistry (CHM 101 or 103). One semester of general geosciences (GEO 100 or 103) is recommended. Not for graduate credit.

OCG 561: Biological Oceanography

LEC: (4 crs.) Dynamics of marine ecosystems; patterns of production and distribution of plankton, benthos, and nekton in relationship to their environment. (Lec. 3, Lab. 2) Pre: general ecology.

6. Signature of the President

David M. Dooley

B. S. MARINE BIOLOGY

College of the Environment and Life Sciences

Department:	Biological Sciences	
Advisor Contact:	Dr. Jacqueline Webb (Faculty Coordinator)	E-mail: urimbio@etal.uri.edu
Websites:	http://cels.uri.edu/bio/BIO_MBcurric.aspx http://web.uri.edu/marbio/	
Credits:	120	

The Major. *The B.S. Marine Biology* program encompasses a rigorous curriculum stressing a strong foundation in biological sciences as well as in chemistry, math, physics and oceanography. It prepares students for further study in graduate school, and for a broad range of careers. All majors start their freshman year with a seminar on Topics in Marine Biology (equivalent to URI 101). After a year of Introductory Biology (which may be satisfied by AP BIO credit), students take the introductory Marine Biology course, Genetics, and choose three core courses in Biological Sciences. Marine Biology elective courses can be taken as soon as course prerequisites are met. Students may also choose from among other marine biology elective courses offered by other marine-related programs such as Aquaculture and Fisheries Technology, Marine Affairs, and Oceanography.

The Faculty in the marine biology program are actively involved in research in a wide variety of fields, including functional and developmental morphology of fishes, sensory biology of fishes, ecology and genomics of marine algae and seaweeds, behavior and physiology of marine organisms, salt marsh ecology, and impacts of climate change.

Experiential Learning. Students are encouraged to participate in research directed by faculty in Biological Sciences, in other departments in the College of the Environment and Life Sciences, and in the Graduate School of Oceanography (e.g., via the Coastal Fellows Program, the NSF-EPSCoR Fellows Program, or the Graduate School of Oceanography's REU-SURFO Program), or to become involved in off-campus research opportunities. Internships in research, outreach and education may take place at various sites, such as the RI Department of Environmental Management, the Mystic Aquarium, the Roger Williams Zoo, Save the Bay, and the Naval Undersea Warfare Center. URI offers credit for the Study Abroad program at the Bermuda Institute of Ocean Sciences (www.bios.edu, Fall semester program) and the Woods Hole SEA Semester program (www.sea.edu), where students can spend a semester taking courses and doing research in the field and/or aboard ship.

Advising and Mentoring. After transferring from UC into CELS (with 30 earned credits, at least a C in BIO 101-104, C- in CHM 101, and a GPA ≥ 2.0), each student is assigned to a Marine Biology faculty advisor. The Marine Biology Program Coordinator sends out a weekly e-newsletter and other notices to all majors and other interested students with information about courses, jobs, internships, and special lectures and other activities of interest. In addition, Marine Biology Peer Mentors are knowledgeable about curriculum and other matters and hold walk-in office hours.

Program Requirements. *Marine Biology requirements.* Majors must complete 36 credits in biological sciences including 2 semesters of Principles of Biology (BIO 101/103, 102/104), Topics in Marine Biology (BIO 130), General Genetics (BIO 352) and Marine Biology (BIO 360). Of the remaining 19 credits, one course must be chosen from 3 of the 5 core areas (Cell and Development, BIO 302, 311, 341; Ecology and Evolution, BIO 262, 272; Molecular Biology, BIO 437; Organismal Diversity, BIO 321, 323, 354, 365, 366, 404, 412, 417, MIC 211; and Physiology, BIO 201, 346). Students choose the balance of 36 credits in the major from among the marine biology electives (e.g., BIO 345, 355, 365, 412, 418, 441, 455, 457, 469, 475, 485, 563, AVS 415, 486, 440, OCE 575, and OCG 420, 480, 561, 576). At least 2 BIO laboratory courses must be completed (excluding BIO 103, 104, 360, and independent study/research). A maximum of 3 credits of special problems, independent study, or research (491, 492, 493, 494, or 495) from one of the following programs – AFS, AVS, BCH, BIO, MIC, NRS, PLS, OCG – may be used to fulfill major credit requirements. *A minimum GPA of 2.0 in BIO courses used to satisfy the major is required.*

Additional requirements. Students must also complete 2 semesters of calculus (MTH 131, 132 or MTH 141, 142) or 1 semester each of calculus and statistics (MTH 131 or 141, and STA 308), 2 semesters of general chemistry with lab (CHM 101, 102, 112, 114 or CHM 191, 192), 2 semesters of organic chemistry with lab (CHM 227, 228, 226) or 1 semester each of organic chemistry with lab and biochemistry (CHM 124, 126, BCH 311), 2 semesters of physics with lab (PHY 111, 112, 185, 186 or PHY 203, 204, 273, 274), 1 semester of oceanography (OCG 301 or 451), and 40 credits of the University's General Education requirements as described on page 4 (new in Fall 2016). *Transfer from University College to the College of the Environment and Life Sciences as a Marine Biology major (or coding as such) requires completion of BIO 101, 103, 102, 104 with minimum grades of C and CHM 101 with a minimum grade of C–.*

BACHELOR OF SCIENCE MARINE BIOLOGY

B.S. in Marine Biology – Program Requirements	
Core Requirements (17 credits)	<i>Required (17 credits):</i> Principles of Biology I, II (BIO 101/103*, 102/104*); Topics in Marine Biology (BIO 130); General Genetics (BIO 352); Marine Biology (BIO 360) <i>*minimum grades of C required</i>
BIO Core Courses and Marine Biology Electives (19 credits) (including 2 BIO laboratory courses required) <i>Other courses in marine biology - by petition or pre-approval of transfer credit</i> <i>**Taught at the Bermuda Institute of Ocean Sciences</i>	<i>Choose one course from 3 of the following 5 BIO core areas (at least 9 credits):</i> Cell and Development: BIO 302, 311, 341 Ecology and Evolution: BIO 262, 272 Molecular Biology: BIO 437 Organismal Diversity: BIO 321, 323, 354, 365, 366, 404, 412, 417; MIC 211 Physiology: BIO 201, 346
	<i>Choose the balance of 36 credits from among these Marine Biology electives:</i> Marine Environmental Physiology (BIO 345) Marine Invertebrates of Southern New England (BIO 355) Biology of Algae (BIO 365) Evolution and Diversity of Fishes (BIO 412) Ecology of Marine Plants (BIO 418) Environmental Physiology of Animals (BIO 441) Marine Ecology (BIO 455)/ Marine Ecology Laboratory (BIO 457) Salt Marsh Ecology (BIO 485) BIOS**: Tropical Marine Invertebrates (BIO 469), Coral Reef Ecology (BIO 475), Tropical Marine Biology Research (BIO 495) Directed Research/Special Problems (AFS, AVS, BCH, BIO, MIC, NRS, PLS 491, 492; OCG 493, 494) Biology and Ecology of Fishes (BIO 563) Fishery Science (AFS 415) Seminar on Marine Mammals (AVS 440) Marine Bioacoustics (OCE 575) Deep Sea Biology (OCG 420) Introduction to Marine Pollution (OCG 480) Biological Oceanography (OCG 561) Marine Microbiology (OCG 576)
Mathematics	Calculus I and II (MTH 131, 132 OR MTH 141, 142) OR One semester each of Calculus (MTH 131 or 141) & Statistics (STA 308)
Chemistry	General Chemistry I and II with lab (CHM 101, 102; 112, 114) AND Organic Chemistry I and II with lab (CHM 227, 228, 226) OR Introduction to Organic Chemistry with lab and Biochemistry (CHM 124, 126; BCH 311)
Physics	General Physics I and II with laboratories (PHY 111, 112; 185, 186)
Oceanography	General Oceanography (OCG 301) OR Oceanographic Science (OCG 451)
General Education Requirements	40 credits of General Education courses as described on page 4.
Remarks	Students must take 2 laboratory courses in Biology in addition to BIO 101/103, 102/104, and 360, excluding independent study/research. No more than 3 credits of Research/Special Problems (491, 492, 493, 494, or 495) may be used towards the major. A total of 36 credits in BIO courses is required. 120 credits are required for graduation. <i>Students must maintain a 2.00 grade point average in BIO courses used to meet graduation requirements. Transfer to CELS as a Marine Biology major (or coding as such) requires 30 credits including BIO 101, 103, 102, and 104 with grades of C or better and CHM 101 with a grade of C- or better.</i>

B.S. Marine Biology Academic Worksheet

BIOLOGY REQUIREMENTS [] CREDITS

Required BIO Courses (17 credits)

- BIO 101, 103 _____ (4 credits – min. grades of C required)
- BIO 102, 104 _____ (4 credits – min. grades of C required)
- BIO 130 _____ (1 credit)
- BIO 352 _____ (4 credits)
- BIO 360 _____ (4 credits)

Core BIO Courses (3 courses required; 9 credits minimum)

Core Area	Core courses	
_____	_____	(____ credits)
_____	_____	(____ credits)
_____	_____	(____ credits)

BIO Lab Courses (2) in addition to
BIO 103, 104 and 360

Marine Biology Electives* (balance of 36 credits)

- _____ (____ credits)
- _____ (____ credits)
- _____ (____ credits)
- _____ (____ credits)
- _____ (____ credits)

BIO GPA (min. 2.0 required) _____

*UP TO 3 CREDITS OF INDEPENDENT STUDY/RESEARCH (491, 492, 493, 494, OR 495) IN ONE OF THE FOLLOWING PROGRAMS MAY BE USED FOR MARINE BIOLOGY ELECTIVES: AFS, AVS, BCH, BIO, MIC, NRS, PLS OR OCG. ADDITIONAL RESEARCH CREDITS COUNT AS FREE ELECTIVES.

ADDITIONAL SCIENCE REQUIREMENTS [] CREDITS

OCEANOGRAPHY (3 CREDITS)

OCG 301 OR OCG 451 _____

CHEMISTRY (15 OR 16 CREDITS)

CHM 101*, 102 _____, _____ (*min. grade C- required)
 CHM 112, 114 _____, _____
 CHM 227, 228, AND 226 _____, _____, _____ **OR** CHM 124, 126 AND BCH 311 _____, _____, _____

MATHEMATICS (6, 7 OR 8 CREDITS)

MTH 131 OR MTH 141 _____
 MTH 132 OR MTH 142 OR STA 308 _____

PHYSICS (8 CREDITS)

PHY 111, 185 _____, _____
 PHY 112, 186 _____, _____

GENERAL EDUCATION REQUIREMENTS (EFFECTIVE FALL 2016) [40] CREDITS

SEE next page.

FREE ELECTIVES [] CREDITS

TOTAL – 120 REQUIRED FOR GRADUATION [] CREDITS

GENERAL EDUCATION REQUIREMENTS
COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES
-- EFFECTIVE FALL 2016 --

General Education Requirements - 12 Outcomes, 40 Credits			
NOTE: 3 credits are required for each outcome; courses may satisfy more than one outcome, but credits cannot be double counted toward the 40 credit total. No more than 12 credits of general education courses may be taken from the same course code. One Grand Challenges course is required.			
	Course	Grade	Credits
KNOWLEDGE			
A1. STEM	BIO101/103*		4
A2. Social & Behavioral Science			
A3. Humanities			
A 4. Arts & Design			
COMPETENCIES			
B1. Write Effectively			
B2. Communicate Effectively			
B3. Mathematical, statistical, or computational strategies	MTH 131*		3
B4. Information Literacy			
RESPONSIBILITIES			
C1. Civic knowledge & responsibilities			
C2. Global responsibilities	BIO 102/104*		4
C3. Cultural competencies			
INTEGRATE & APPLY			
D1. Ability to synthesize			
GRAND CHALLENGE			
G. At least 1 of the courses above must also be a "G" course			NA
GENERAL EDUCATION ELECTIVES (additional general education courses for total of 40 credits)			
CHM 101*			3
TOTAL GENERAL EDUCATION CREDITS			
Pre-populated courses with * are required for the BS Marine Biology degree, but may also be used to satisfy general education requirements			

FREE ELECTIVES (PLEASE LIST COURSES AND CREDITS BELOW)

_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)
_____	(____ credits)

FREE ELECTIVE CREDITS _____

B.S. MARINE BIOLOGY	
FIRST YEAR FALL	FIRST YEAR SPRING
BIO 101/103 (4) CHM 101/102 or Gen Ed (3-4) MTH 111 or MTH 131 (3) Gen Ed (3-4) BIO 130 (1)	BIO 102/104 (4) CHM 112/114 or 101/102 (4) MTH 131, 132, or STA 308 (3) Gen Ed (3-4)
15-16 credits	14-15 credits
SECOND YEAR FALL	SECOND YEAR SPRING
BIO 360 or BIO core course (3-4) CHM 124/126 or 227 or 112/114 (4) Elective or MTH 132 or STA 308 (3-4) Gen Ed (3-4) <i>Optional:</i> Gen Ed or elective (3-4)*	BIO 360 or BIO core course (3-4) BIO 360 or Marine Biology elective (3-4) CHM 124/126 or 227 or 228 or BCH 311 (3-5) Gen Ed (3-4) <i>Optional:</i> Gen Ed or elective (3-4)*
14-17 credits	14-17 credits
THIRD YEAR FALL**	THIRD YEAR SPRING**
BIO 352 or BIO core (3-4) PHY 111/185 (4) CHM 226 and/or 228 or BCH 311 or elective (3-5) Gen Ed (3-4) <i>Optional:</i> elective (3-4)*	BIO 352 or BIO core course (3-4) Marine Biology elective (3-4) PHY 112/186 (4) Gen Ed or BCH 311 (3 or 4) <i>Optional:</i> elective (3-4)*
14-17 credits	14-17 credits
FOURTH YEAR FALL**	FOURTH YEAR SPRING**
Marine Biology elective (3-4) Marine Biology elective (3-4) Gen Ed (3-4) OCG 301 or elective (3-4) <i>Optional:</i> elective (3-4)*	Marine Biology elective (3-4) Marine Biology elective or elective (3-4) Gen Ed or elective (3-4) OCG 451 or elective (3-4) <i>Optional:</i> elective (3-4)*
14-17 credits	14-17 credits

*Consider including when fewer than 15 credits total for other courses.

**Study abroad /full-time internship; substitute required courses for electives in other semesters.

B.S. MARINE BIOLOGY — TRANSFER	
SECOND YEAR FALL	SECOND YEAR SPRING
BIO 101/103 (4) CHM 101/102 (4) MTH 111 or MTH 131 (3) Gen Ed or elective (3-4)	BIO 102/104 (4) CHM 112/114 (4) MTH 131, 132 or STA 308 (3) Gen Ed or elective (3-4)
14-15 credits	14-15 credits
THIRD YEAR FALL	THIRD YEAR SPRING
BIO 360 or BIO core course* (3-4) CHM 124/126 or 227 (4) Elective or MTH 132 or STA 308 (3-4) MBIO elective*, Gen Ed or elective (3-4) <i>Optional:</i> MBIO elective*, Gen Ed or elective (3-4)**	BIO 352 or BIO core course* (3-4) BIO 360 or MBIO elective* (3-4) CHM 228 or BCH 311 (3-5) MBIO elective*, Gen Ed or elective (3-4) <i>Optional:</i> MBIO elective*, Gen Ed or elective (3-4) **
14-17 credits	14-17 credits
FOURTH YEAR FALL	FOURTH YEAR SPRING
BIO core course* (3-4) PHY 111/185 (4) CHM 226 or BCH 311 or elective (3-5) OCG 301 or MBIO elective* (3-4) <i>Optional:</i> MBIO elective*, Gen Ed or elective (3-4) **	BIO core course* (3-4) Marine Biology elective* (3-4) PHY 112/186 (4) OCG 451 or MBIO elective* (3-4) <i>Optional:</i> MBIO elective*, Gen Ed or elective (3-4) **
14-17 credits	14-17 credits

**Consider including when fewer than 15 credits total for other courses.

*A total of 19 credits of BIO core + MBIO electives are required (i.e., 7 X 3-credit courses, 5 X 4-credit courses, or a combination of 3 and 4 credit courses).

From: Marta Gomez-Chiarri gomezchi@uri.edu
Subject: Re: Need approval to add your courses to MBio elective course list
Date: February 10, 2016 at 9:36 AM
To: Jacqueline Webb jacqueline_webb@uri.edu

Dear Jackie,

I support the request of including AFS415 in the Marine Biology curriculum as an elective.

Please let me know if you need anything else. I will send in the next month a list of revisions to the AFS curriculum and other courses you may want to include as electives in the Marine Biology curriculum.

Cheers,

Marta

On Feb 8, 2016, at 8:07 PM, Jacqueline Webb <jacqueline_webb@uri.edu> wrote:

Dear Marta, Chris and David:

We would like to add AFS 415, OCE 575, OCG 480 and OCG 561 to the list of Marine Biology electives that count towards the BS Marine Biology major. I don't believe that AFS 415 has been taken by MBio majors recently, but the OCE and OCG courses have been taken by a small number of highly qualified students, but they have needed to file a petition for these courses to count towards the major.

We are seeking your approval to list these courses in the MBio curriculum sheet (**attached; in yellow**), which would eliminate the need for petitions for these courses. This change will assist a small number of students initially, but these courses may attract an increasing number of students going forward. Most importantly, the addition of these courses will enhance the interdisciplinary scope of the MBio major, will likely increase undergraduate enrollment in the OCG courses, and will assist double majors (MBio/AFS; MBio/OCE) use these courses towards completion of both majors.

Are there any other courses that we should consider? **Marta** - I believe you mentioned a new Aquaculture course, but I have no information about it.

For the purpose of getting approval from the various curricular committees, we need an email from each of you indicating your approval to have the courses offered by your particular department (as listed above) count towards the MBio curriculum.

Thanks for your support of the MBio students!

Best wishes,

Jackie
<BS Mar Bio _01_2016_WITH proposed additions.pdf>

Dr. Jacqueline F. Webb
Professor of Biological Sciences
Coordinator, Marine Biology Program
Chair, URI Council for Research
University of Rhode Island
120 Flagg Road, CBLS 293
Kingston, RI 02881
Phone: 401-874-2609
NEW E-mail: jacqueline_webb@uri.edu
Website: <http://WebbLabURI.wordpress.com>

From: Jacqueline Webb jacqueline_webb@uri.edu
Subject: Fwd: Need approval to add your courses to MBio elective course list
Date: March 1, 2016 at 12:03 PM
To:

From: David Smith <dcsmith@uri.edu>
Subject: Re: Need approval to add your courses to MBio elective course list
Date: March 1, 2016 at 11:58:07 AM EST
To: Jacqueline Webb <jacqueline_webb@uri.edu>

Dear Jackie,

I would appreciate it if you would add both OCG 480 and OCG 561 to your approved course list. As we discussed, I think your senior students would do well in our classes.

Thanks,
David

On Feb 8, 2016, at 8:07 PM, Jacqueline Webb <jacqueline_webb@uri.edu> wrote:

Dear Marta, Chris and David:

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Thanks for your support of the MBio students!

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Jackie
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Dr. Jacqueline F. Webb
Professor of Biological Sciences
Coordinator, Marine Biology Program
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University of Rhode Island
120 Flagg Road, CBLS 293
Kingston, RI 02881
Phone: 401-874-2609
NEW E-mail: jacqueline_webb@uri.edu
Website: <http://WebbLabURI.wordpress.com>

From: Chris Baxter baxter@egr.uri.edu
Subject: Re: Need approval to add your courses to MBio elective course list
Date: February 15, 2016 at 8:12 AM
To: Jacqueline Webb jacqueline_webb@uri.edu

Jackie,

I approve these changes.

Chris

On Mon, Feb 8, 2016 at 8:07 PM, Jacqueline Webb <jacqueline_webb@uri.edu> wrote:

Dear Marta, Chris and David:

We would like to add AFS 415, OCE 575, OCG 480 and OCG 561 to the list of Marine Biology electives that count towards the BS Marine Biology major. I don't believe that AFS 415 has been taken by MBio majors recently, but the OCE and OCG courses have been taken by a small number of highly qualified students, but they have needed to file a petition for these courses to count towards the major.

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Thanks for your support of the MBio students!

Best wishes,

Jackie

Dr. Jacqueline F. Webb
Professor of Biological Sciences
Coordinator, Marine Biology Program
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University of Rhode Island
120 Flagg Road, CBL5 293
Kingston, RI 02881
Phone: [401-874-2609](tel:401-874-2609)
NEW E-mail: jacqueline_webb@uri.edu
Website: <http://WebbLabURI.wordpress.com>

Notice of Change form

Notice of Change for: Trainers SLRC to CBA

Date: September 13, 2016

A. PROGRAM INFORMATION

1. Name of institution

University of Rhode Island

2. Name of department, division, school or college

Department: Schmidt Labor Research Center

College: Former ASFCCE transfer to College of Business Administration

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

Initiation date: July 1, 2016

First degree date: N/A

4. Intended location of the program

Kingston

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

With the dissolution of the ASFCCE, it is proposed that the SLRC transfer to become organizationally responsible to the College of Business for administrative purposes. This change makes both practical and philosophical sense: CBA faculty teach SLRC courses, CBA Graduate curriculum aligns closely with the MS and Certificates in Labor Relations and Human Resources. The Center will retain its independence, as originally designed and graduate programs will remain within the jurisdiction of the Graduate School and Graduate Faculty.

The transfer would include the Graduate Certificate Program in Labor Relations and Human Resources, the Work, Labor, and Social Justice minor (formerly Labor Studies), the M.S. and M.S./J.D. in Labor Relations and Human Resources, and all LRS courses, which would now fall under CBA.

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

7. Signature of the President

David M. Dooley



September 16, 2016

As the Dean of the College of Business and on behalf of the faculty and staff of the College of Business, I support the proposal to transfer the Schmidt Labor Research Center from the former Alan Shawn Feinstein College of Continuing Education to become organizationally responsible to the College of Business for administrative purposes.

Please let me know if you have any questions or need further information.

Sincerely,

A handwritten signature in cursive script, appearing to read "Maling Ebrahimpour".

Dr. Maling Ebrahimpour
Dean and The Alfred J. Verrocchia-Hasbro Inc.
Leadership Chair in Business
Email: mebrahimpour@uri.edu



OFFICE OF THE DEAN

Shepard Building, 80 Washington Street, Providence, RI 02903 USA

September 15, 2016

As the Dean of the former Alan Shawn Feinstein College of Continuing Education and the current Dean of the Feinstein College of Education and Professional Studies, I support the proposal to transfer the Schmidt Labor Research Center to become organizationally responsible to the College of Business for administrative purposes.

Sincerely,

A handwritten signature in cursive script that reads "Lori E. Ciccomascolo".

Lori E. Ciccomascolo

Dean, Feinstein College of Education and Professional Studies