

Minor Program Adjustment

Faculty: Science	Date: September 15, 2017
Program: Applied Bioscience - Master and Doctoral programs	
Undergraduate: <input type="checkbox"/>	Graduate: <input checked="" type="checkbox"/>

Minor Program Adjustments include: New required courses, Deletion of required courses, Other changes to degree requirements or program learning outcomes, New academic requirements or changes to existing requirements.

Motion to CPRC or GSC:

Proposal Brief

Summary of the proposed change

Currently, the graduate seminar in APBS is split into four course codes representing different ‘fields’ within the Applied Bioscience program. These course codes are the same whether the student is enrolled in the MSc or PhD program. This causes confusion for students since the multiple course codes look like they are describing different courses when in fact they are not. Similarly, because the current course codes are the same for the MSc and PhD programs, this is causing problems when assessing whether degree requirements have been met when a student completes an MSc in the APBS program and then enrolls in the PhD program. Under these circumstances, it appears as though the student has not met degree requirements because the same course code is used for enrolment in the graduate seminar. Applied Bioscience students are expected to attend the APBS seminar series every semester that they are enrolled in the program however, as there is currently course registration associated with this requirement, students often aren’t aware of it and it is difficult to their track participation. Therefore, in order to clarify degree requirements at both the Masters and Doctoral level, we propose the following changes:

- The removal of the following APBS “Special Topics” courses from the Graduate Academic Calendar:
 - APBS 7100G - Special Topics in Biomolecular Science
 - APBS 7200G - Special Topics in Ecosystem Health
 - APBS 7300G – Special Topics in Forensic Bioscience
 - APBS 7400G – Special Topics in Human Health Biology
- The consolidation and replacement of the above ABPS “Special Topics” courses requirement with the following new courses at the MSc and PhD levels respectively:
 - APBS 6040G - MSc Graduate Seminar in Applied Bioscience
 - APBS 7080G – PhD Graduate Seminar in Applied Bioscience
- Change the course and title description for APBS 7050G – Research Seminar in Applied Bioscience, which is the exit seminar students give at the end of their program, to better reflect the purpose of the course and remove its current tie to the regular seminar series.

- The creation of non-credit Seminar Series continuance courses (Pass/Fail) at the MSc and PhD levels respectively:
 - APBS 6000G – MSc Applied Bioscience Seminar Series
 - APBS 7000G – PhD Applied Bioscience Seminar Series
- The inclusion of APBS 6600G - Design, Analysis and Interpretation of Quantitative Biological Research to the list of elective for the Doctoral program (it was omitted during the course creation process)

Description of the ways in which the proposed change will enhance the program and/or opportunities for students

Consolidating the four course codes into a single code for the MSc graduate seminar and offering a unique course code for the PhD graduate seminar will eliminate confusion for students with respect to degree expectations. The requirement for the MSc-level graduate seminar is that students present a research seminar in the second semester of their degree, while the PhD-level graduate seminar requires that students give a research seminar annually for as long as they are enrolled in the program. The proposed change will enhance the program by making these expectations clearer to students. The graduate seminar brings together all APBS faculty and students (MSc and PhD) on a weekly basis throughout the academic year. The proposed change will unify the multi-disciplinary APBS program, eliminating the need for a student to try to identify with a sub-field. Similarly, the creation of non-credit Seminar Series continuance courses at both the Masters and Doctoral level, will clarify the on-going requirement for students to attend and participate in the APBS graduate seminar. Grading these courses as Pass/Fail will also help clarify the connection between continued participation in the APBS Graduate Seminar Series and the students' final grade in the final Graduate Seminar course (APBS 6040G and APBS 7080G).

Process of consultation with other units if the change(s) involves students, staff, and/or faculty from other programs or courses

These changes have been discussed amongst the Applied Bioscience faculty members. The proposed change will not affect other programs and will simplify degree expectations for students enrolled in the APBS MSc and PhD programs.

Analysis of financial and enrolment implications

There will be no financial implications for this change as it is merely rebranding the 'Special Topics' courses within the APBS program to what the course really is, which is the graduate seminar. The enrolment implications of this change will be that MSc students will register for MSc graduate seminar while PhD students will register for PhD graduate seminar. Similarly, the creation and addition of the APBS seminar continuance course will ensure that students are registering and attending the seminar series through their degree program, and will assist in determining their final grade for the final seminar course (APBS 6040G and APBS 7080G)

Proposed Implementation Date (state term, e.g. Fall 2017)

Fall 2018

Transition Plan (include a plan for all current students in the program, by year level)

Students currently in both the Master and Doctoral programs will be able to register in the continuance seminar courses as of Fall 2017. Their final grade for the graduate seminar will be attached to either APBS 6040G – MSc Graduate Seminar or APBS 7080G – PhD Graduate Seminar, which students should register in their final semester of study.

Calendar Copy and/or Program Maps (highlight revisions to existing curriculum)**Applied Bioscience, MSc**

Degree requirements for the Master of Science (MSc) in Applied Bioscience are listed below. For general program information, admission requirements, graduate faculty lists and/or details on part-time options, see Applied Bioscience.

Degree requirements

Students must successfully complete three 3-credit courses, including:

- APBS 6010G - Research in Applied Bioscience,
- APBS 6040G - MSc Graduate Seminar
- one elective course ~~and one special topics course~~ related to their designated field.

Students are expected to attend and participate in the Applied Bioscience Seminar by registering in the APBS 6000G – MSc Applied Bioscience Seminar Series continuance course in each semester.

In addition, they must complete the required non-credit course APBS 6030G Seminar in Applied Bioscience and prepare and orally defend a thesis (APBS 6020G MSc Thesis in Applied Bioscience) and receive a pass.

Proposed progression through program**Year 1**

- APBS 6010G - Research in Applied Bioscience
- APBS 6000G – MSc Applied Science Seminar Series
- APBS 6040G – MSc Graduate Seminar
- One elective course ~~and one special topics course~~
- Initiation of research program

Year 2

- Master's thesis research
- APBS 6000G – MSc Applied Bioscience Seminar Series
- APBS 6020G - MSc Thesis in Applied Bioscience
- APBS 6030G - Seminar in Applied Bioscience

Course listing:**Core courses (required)**

- [APBS 6000G – MSc Applied Bioscience Seminar Series](#)
- APBS 6010G - Research in Applied Bioscience
- APBS 6020G - MSc Thesis in Applied Bioscience
- APBS 6030G - Seminar in Applied Bioscience
- [APBS 6040G – MSc Graduate Seminar](#)

Elective courses

- APBS 6100G - Advanced Cell and Molecular Biology
- APBS 6200G - Environmental Determinants of Health
- APBS 6300G - Advanced Topics in Biological Chemistry
- APBS 6400G - Advanced Topics in Forensic Bioscience
- APBS 6500G - Advanced Topics in Medicinal Chemistry
- APBS 6600G - Design, Analysis & Interpretation of Quantitative Biological Research
- APBS 6700G - Advances in Applied Bioscience

Special topics courses

- ~~APBS 7100G – Special Topics in Biomolecular Science~~
- ~~APBS 7200G – Special Topics in Ecosystem Health~~
- ~~APBS 7300G – Special Topics in Forensic Bioscience~~
- ~~APBS 7400G – Special Topics in Human Health Biology~~

Applied Bioscience, PhD

Degree requirements for the Doctor of Philosophy (PhD) in Applied Bioscience are listed below. For general program information, admission requirements, graduate faculty lists and/or details on part-time options, see Applied Bioscience.

Degree requirements

Students must complete APBS 6010G Research in Applied Bioscience, [APBS 7080G PhD Graduate Seminar](#), one elective course, ~~one special topics course~~ specific to their field and APBS 7070G PhD Dissertation. The research dissertation must constitute a new contribution to the field of study. In addition to the three courses and dissertation, students must successfully complete APBS 7050G Research Seminar in Applied Bioscience and APBS 7040G PhD Thesis Proposal and Candidacy Exam. The latter is to be completed within 18 months of entry into the PhD program and consists of a written research proposal and an oral exam. [Students are expected to attend and participate in the Applied Bioscience Seminar by registering in the APBS 7000G – PhD Applied Bioscience Seminar Series continuance course in each semester.](#) Finally, students must make satisfactory progress in their research (evaluated yearly) and enrol each year in APBS 7060G PhD Research.

Students who transfer directly from the MSc in Applied Bioscience into the PhD program must complete APBS 7050G Research Seminar in Applied Bioscience, APBS 7040G PhD Thesis Proposal and Candidacy Exam, APBS 7060G PhD Research and APBS 7070G PhD Dissertation.

Course listing

Core courses (required)

- [APBS 7000G – PhD Applied Bioscience Seminar Series](#)
- APBS 6010G - Research in Applied Bioscience
- [APBS 7080G – PhD Graduate Seminar](#)
- APBS 7040G - PhD Thesis Proposal and Candidacy Exam
- APBS 7050G - Research Seminar in Applied Bioscience
- APBS 7060G - PhD Research
- APBS 7070G - PhD Dissertation

Elective courses

- APBS 6100G - Advanced Cell and Molecular Biology
- APBS 6200G - Environmental Determinants of Health
- APBS 6300G - Advanced Topics in Biological Chemistry
- APBS 6400G - Advanced Topics in Forensic Bioscience
- APBS 6500G - Advanced Topics in Medicinal Chemistry
- [APBS 6600G – Design, Analysis and Interpretation of Quantitative Biological Research](#)
- APBS 7600G - Frontiers in Applied Bioscience

Special topics courses

- ~~APBS 7100G – Special Topics in Biomolecular Science~~
- ~~APBS 7200G – Special Topics in Ecosystem Health~~
- ~~APBS 7300G – Special Topics in Forensic Bioscience~~
- ~~APBS 7400G – Special Topics in Human Health Biology~~

Attachments

New Course Template – APBS 6000G – MSc Applied Bioscience Seminar Series

New Course Template – APBS 7000G – PhD Applied Bioscience Seminar Series

New Course Template – APBS 7080G PhD Graduate Seminar in Applied Bioscience

New Course Template – APBS 6040G MSc Graduate Seminar in Applied Bioscience

Course Change Template – APBS 7100G – Special Topics in Biomolecular Science

Course Change Template – APBS 7200G – Special Topics in Ecosystem Health

Course Change Template – APBS 7300G – Special Topics in Forensic Bioscience

Course Change Template – APBS 7400G – Special Topics in Human Health Biology

Course Change Template – APBS 7050G – Research Seminar in Applied Bioscience

APPROVAL DATES

Curriculum Committee approval	October 25 th , 2017
Faculty Council approval	November 1 st , 2017
GSC Approval	
Submission to Academic Council	

TEMPLATE 8-A

NEW COURSE TEMPLATE

For changes to existing courses see Course Change Template

Faculty: Science			
Full Course Title: MSc Applied Bioscience Seminar Series			
Short Form Course Title (max 30 characters): MSc Appl Biosci Seminar Series			
Subject Code and Course number: APBS 6000G	Cross-listings:	<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Credit weight: 0 cr. hrs
Contact hours (please indicate number of total hours for each component):			
<input checked="" type="checkbox"/> Lecture __1.5hrs__ <input type="checkbox"/> Lab _____ <input type="checkbox"/> Tutorial _____ <input type="checkbox"/> Other _____			

PROGRAM(S) IMPACTED [For a core course, please list all impacted programs including any applicable fields or specializations here and include this form with a program adjustment/proposal; for an elective course being inserted anywhere other than the Course Description section of the Academic Calendar, please list all impacted programs including any applicable fields or specializations and place the Calendar copy for each here (e.g. in a list of electives tied to a specific program).]

Applied Bioscience Master Graduate Program

CALENDAR DESCRIPTION

This is a required non-credit continuance course which is part of the regular seminar series in Applied Bioscience and associated with APBS 6040G – MSc Graduate Seminar. Students will be expected to give yearly seminars that will provide an update on the progress of their research, provide peer-reviewed feedback on seminars of fellow students and be present at all other seminars. Students should register in this course each semester of their program. The student will receive a grade of either pass or fail.

Prerequisites	Enrolment in the APBS MSc program
Co-requisites	
Credit restrictions	
Equivalency courses	
Grading scheme	<input type="checkbox"/> letter grade <input checked="" type="checkbox"/> pass/fail

LEARNING OUTCOMES (this section is required)

Students who complete this course will have demonstrated the ability to:

1. use advanced communication skills in the dissemination of scientific information
2. interpret and present research results
3. answer questions about research using advanced knowledge critically examine and discuss the implications of a given research project to society as a whole

COURSE INSTRUCTIONAL METHOD

(check all that <u>may</u> apply)	<input checked="" type="checkbox"/> CLS (in-class)	<input type="checkbox"/> HYB (in-class and online)
	<input type="checkbox"/> IND (individual studies)	<input type="checkbox"/> OFF (off-site)
	<input type="checkbox"/> WB1 (synchronous online delivery)	
	<input type="checkbox"/> WEB (asynchronous online delivery)	

TEACHING AND ASSESSMENT METHODS

Students will be evaluated based on the following:
<ol style="list-style-type: none"> 1. How well the student has presented the background information on their research topic and appropriateness of this information within the context of the entire presentation 2. The scientific merit of the results 3. The clarity and thoughtfulness of the interpretation of the results 4. The overall delivery of the seminar 5. Participation in the regular seminar series

CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

This is part of the rebranding of an existing course requirement, and there should be no financial implications

EFFECTIVE SEMESTER (Specify First Active Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Curriculum Committee approval	<i>October 25th, 2017</i>
Faculty Council approval	<i>November 1st, 2017</i>
Submission to CPRC/GSC	

TEMPLATE 8-A**NEW COURSE TEMPLATE**

For changes to existing courses see Course Change Template

Faculty: Science			
Full Course Title: MSc Graduate Seminar in Applied Bioscience			
Short Form Course Title (max 30 characters): MSc Graduate Seminar			
Subject Code and Course number: APBS 6040G	Cross-listings:	<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Credit weight: 3 cr
Contact hours (please indicate number of hours for each component):			
<input checked="" type="checkbox"/> Lecture 1.5hr <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Other			

PROGRAM(S) (if applicable, form should accompany a program adjustment/proposal)

Applied Bioscience Masters Graduate Program

CALENDAR DESCRIPTION

This course will require students to prepare a thorough survey of the literature and orally present an overview of the current state of knowledge and key knowledge gaps in their research topic area within Applied Bioscience. This seminar must address how advances in the related area of research will benefit society. The presentation will be expected to be appropriate for an interdisciplinary audience in Science. Attendance at the Graduate Seminar Series is mandatory for credit. 3 cr Prerequisite: Enrolment in the APBS MSc program.
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Prerequisites	Enrolment in the APBS MSc program
Co-requisites	
Credit restrictions	APBS 7100G, APBS 7200G, APBS 7300G, APBS 7400G
Equivalency courses	none
Grading scheme	<input checked="" type="checkbox"/> letter grade <input type="checkbox"/> pass/fail

LEARNING OUTCOMES (this section is required)

Students who complete this course will have demonstrated the ability to:
1. present the current state of knowledge on a particular topic into a clear and comprehensive seminar
2. identify the current gaps in knowledge
3. suggest further avenues for the advancement of knowledge
4. relate how scientific advances in this area will benefit society

COURSE INSTRUCTIONAL METHOD

(check all that <u>may</u> apply) <input checked="" type="checkbox"/> CLS (in-class) <input type="checkbox"/> HYB (in-class and online)
<input type="checkbox"/> IND (individual studies) <input type="checkbox"/> OFF (off-site)
<input type="checkbox"/> WB1 (synchronous online delivery)
<input type="checkbox"/> WEB (asynchronous online delivery)

TEACHING AND ASSESSMENT METHODS

Students will be evaluated based on the following:

1. How well the student organized the current state of knowledge into a single presentation
2. Discussion of current gaps in knowledge
3. Demonstrate a deep knowledge on the subject matter
4. Discuss how research in this area will impact society
5. Overall quality of the seminar presentation
6. Attendance and participation in seminar series

Feedback will be provided to the students by peers and faculty through a standardized evaluation form.

CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

As this is the rebranding of an existing course requirement, there should be no financial implications

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Curriculum Committee approval	<i>October 25th, 2017</i>
Faculty Council approval	<i>November 1st, 2017</i>
Submission to CPRC/GSC	

TEMPLATE 8-A

NEW COURSE TEMPLATE

For changes to existing courses see Course Change Template

Faculty: Science			
Full Course Title: PhD Applied Bioscience Seminar Series			
Short Form Course Title (max 30 characters): PhD Appl Biosci Seminar Series			
Subject Code and Course number: APBS 7000G	Cross-listings:	<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Credit weight: 0 cr. hrs
Contact hours (please indicate number of total hours for each component):			
<input checked="" type="checkbox"/> Lecture __1.5hrs__ <input type="checkbox"/> Lab _____ <input type="checkbox"/> Tutorial _____ <input type="checkbox"/> Other _____			

PROGRAM(S) IMPACTED [For a core course, please list all impacted programs including any applicable fields or specializations here and include this form with a program adjustment/proposal; for an elective course being inserted anywhere other than the Course Description section of the Academic Calendar, please list all impacted programs including any applicable fields or specializations and place the Calendar copy for each here (e.g. in a list of electives tied to a specific program).]

Applied Bioscience Doctoral Graduate Program

CALENDAR DESCRIPTION

This is a required non-credit continuance course which is part of the regular seminar series in Applied Bioscience and associated with APBS 7080G – PhD Graduate Seminar. Students will be expected to give yearly seminars that will provide an update on the progress of their research, provide peer-reviewed feedback on seminars of fellow students and be present at all other seminars. Students should register in this course each semester of their program. The student will receive a grade of either pass or fail.

Prerequisites	Enrolment in the APBS PhD program
Co-requisites	
Credit restrictions	
Equivalency courses	
Grading scheme	<input type="checkbox"/> letter grade <input checked="" type="checkbox"/> pass/fail

LEARNING OUTCOMES (this section is required)

Students who complete this course will have demonstrated the ability to:

1. use advanced communication skills in the dissemination of scientific information
2. interpret and present research results
3. answer questions about research using advanced knowledge critically examine and discuss the implications of a given research project to society as a whole

COURSE INSTRUCTIONAL METHOD

(check all that <u>may</u> apply)	<input checked="" type="checkbox"/> CLS (in-class)	<input type="checkbox"/> HYB (in-class and online)
	<input type="checkbox"/> IND (individual studies)	<input type="checkbox"/> OFF (off-site)
	<input type="checkbox"/> WB1 (synchronous online delivery)	
	<input type="checkbox"/> WEB (asynchronous online delivery)	

TEACHING AND ASSESSMENT METHODS

Students will be evaluated based on the following:
<ol style="list-style-type: none"> 1. How well the student has presented the background information on their research topic and appropriateness of this information within the context of the entire presentation 2. The scientific merit of the results 3. The clarity and thoughtfulness of the interpretation of the results 4. The overall delivery of the seminar 5. Participation in the regular seminar series

CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

This is part of the rebranding of an existing course requirement, and there should be no financial implications

EFFECTIVE SEMESTER (Specify First Active Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Curriculum Committee approval	<i>October 25th, 2017</i>
Faculty Council approval	<i>November 1st, 2017</i>
Submission to CPRC/GSC	

TEMPLATE 8-B**COURSE CHANGE TEMPLATE**

For new courses see New Course Template

Faculty: Science	
Program: Applied Bioscience	
Subject Code and Course Number: APBS 7050G	Current Full Course Title: Research Seminar in Applied Bioscience
<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Current Short-Form Course Title (max. 30 characters): Research Sem in Appl. Bioscie.

COURSE CHANGES (check all that apply)

<input checked="" type="checkbox"/>	Course title	<input checked="" type="checkbox"/>	Credit weighting
<input checked="" type="checkbox"/>	Course description	<input type="checkbox"/>	Contact hours
<input type="checkbox"/>	Course number	<input type="checkbox"/>	Prerequisites
<input type="checkbox"/>	Subject code	<input type="checkbox"/>	Co-requisites
<input checked="" type="checkbox"/>	Grade Mode (N – alpha grade, P – Pass/Fail)	<input type="checkbox"/>	Cross-listings
<input type="checkbox"/>	Learning outcomes	<input type="checkbox"/>	Credit restrictions
<input type="checkbox"/>	Course Instructional Method (CLS, HYB, WB1, WEB)	<input type="checkbox"/>	Equivalency Courses
<input type="checkbox"/>	Delete course from Academic Calendar	<input type="checkbox"/>	Delete course from Program only (attach this form to program modification)
<input type="checkbox"/>	Supplementary Fees	<input type="checkbox"/>	Teaching and assessment methods
<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>	Term Change

DESCRIPTION AND/OR REASON FOR CHANGE AND WAYS IN WHICH IT MAINTAINS/ENHANCES COURSE/PROGRAM OBJECTIVES

The APBS program is consolidating the “Special Topics” course codes for APBS 7100G, 7200G, 7300G and 7400G which are all the same course, graduate seminar. These course codes are used for both the MSc and PhD levels which is causing problems when students complete an MSc in the program and then stay for a PhD. To eliminate this problem in addition to consolidating the course codes for seminar, we are separating the graduate seminar course into an MSc and PhD level course code. The changes to the course description APBS 7050G (Research Seminar in Applied Bioscience), which is the exit seminar students give at the end of their program, reflects the new graduate seminar course. Previously, the grade for seminar (Special Topics) was withheld until the exit seminar was completed. With the new graduate seminar course, this is no longer required and APBS 7050G no longer needs to be tied to the regular seminar series. Students at the end of their program typically schedule their exit seminars separately from the regular seminar series. The change in wording below reflects current practice.

CHANGE TO CALENDAR DESCRIPTION (if required)

Current	Proposed
APBS 7050G – Research Seminar in Applied Bioscience This course will require students at the end of their program to present a thorough overview of their thesis research, including relevant background	APBS 7050G – Doctoral Exit Seminar This course will require students at the end of their program to present a thorough overview of their thesis research, including relevant background material, research results and their interpretation.

<p>material, research results and their interpretation. This seminar must address how the research will benefit society. The presentation will be expected to be appropriate for an interdisciplinary audience in Science. This course is a part of the regular seminar series in Applied Bioscience. Therefore, students are also expected to give yearly seminars that will provide an update on the progress of their research, provide peer-reviewed feedback on seminars of fellow students and be present at all other seminars. The final grade will be administered after their final seminar</p> <p>Credit hours: 3</p>	<p>This seminar must address how the research will benefit society. The presentation will be expected to be appropriate for an interdisciplinary audience in Science. This course is a part of the regular seminar series in Applied Bioscience. Therefore, students are also expected to give yearly seminars that will provide an update on the progress of their research, provide peer-reviewed feedback on seminars of fellow students and be present at all other seminars. The final grade will be administered after their final seminar This is a required, but non-credit course in the Applied Bioscience program. Student seminars will be scheduled as needed. The student will receive a grade of either pass or fail. 0 cr. Prerequisite: good standing in the APBS graduate program.</p>
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CHANGE TO CONTACT HOURS (if applicable):

Lecture	Lab
Tutorial	Other

OTHER CHANGES (if applicable)

Prerequisites	
Co-requisites	
Credit restrictions	
Credit exemptions	
Grading scheme	<input type="checkbox"/> letter grade <input checked="" type="checkbox"/> pass/fail

CHANGES TO LEARNING OUTCOMES (if applicable)

N/A

CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

There should be no financial implications

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Faculty Curriculum Committee approval	October 25th, 2017
Faculty Council approval	November 1st, 2017
Reported to CPRC	

TEMPLATE 8-A**NEW COURSE TEMPLATE**For changes to existing courses see *Course Change Template*

Faculty: Science			
Full Course Title: PhD Graduate Seminar in Applied Bioscience			
Short Form Course Title (max 30 characters): PhD Graduate Seminar			
Subject Code and Course number: APBS 7080G	Cross-listings:	<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Credit weight: 3 cr
Contact hours (please indicate number of hours for each component):			
<input checked="" type="checkbox"/> Lecture 1.5hrs <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Other			

PROGRAM(S) (if applicable, form should accompany a program adjustment/proposal)

Applied Bioscience Doctoral Graduate Program
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CALENDAR DESCRIPTION

This course will require students to prepare a thorough survey of the literature and orally present an overview of the current state of knowledge and key knowledge gaps in their research topic area within Applied Bioscience. This seminar must address how advances in the related area of research will benefit society. Students will be expected to give annual seminars that will provide an update on their research progress and provide peer review feedback on the seminars of fellow graduate students. The presentation will be expected to be appropriate for an interdisciplinary audience in Science. Attendance at the Graduate Seminar Series is mandatory for credit. 3 cr Prerequisite: Enrolment in the APBS PhD program.

Prerequisites	Enrolment in the APBS PhD program
Co-requisites	
Credit restrictions	APBS 7100G, APBS 7200G, APBS 7300G, APBS 7400G
Equivalency courses	none
Grading scheme	<input checked="" type="checkbox"/> letter grade <input type="checkbox"/> pass/fail

LEARNING OUTCOMES (this section is required)

Students who complete this course will have demonstrated the ability to:
1. use advanced communication skills in the dissemination of scientific information
2. interpret and present research results
3. answer questions about research using advanced knowledge critically examine and discuss the implications of a given research project to society as a whole

COURSE INSTRUCTIONAL METHOD

(check all that may apply) <input checked="" type="checkbox"/> CLS (in-class) <input type="checkbox"/> HYB (in-class and online)
<input type="checkbox"/> IND (individual studies) <input type="checkbox"/> OFF (off-site)
<input type="checkbox"/> WB1 (synchronous online delivery)

WEB (asynchronous online delivery)

TEACHING AND ASSESSMENT METHODS

Students will be evaluated based on the following:

1. How well the student has presented the background information on their research topic and appropriateness of this information within the context of the entire presentation
2. The scientific merit of the results
3. The clarity and thoughtfulness of the interpretation of the results
4. The overall delivery of the seminar
5. Participation in the regular seminar series

CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

As this is the rebranding of an existing course requirement, there should be no financial implications

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Curriculum Committee approval	<i>October 25th, 2017</i>
Faculty Council approval	<i>November 1st, 2017</i>
Submission to CPRC/GSC	

TEMPLATE 8-B

COURSE CHANGE TEMPLATE

For new courses see New Course Template

Faculty: Science	
Program: Applied Bioscience (APBS)	
Subject Code and Course Number: APBS 7100G	Current Full Course Title: Special Topics in Biomolecular Science
<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Current Short-Form Course Title (max. 30 characters):

COURSE CHANGES (check all that apply)

<input type="checkbox"/>	Course title	<input type="checkbox"/>	Credit weighting
<input type="checkbox"/>	Course description	<input type="checkbox"/>	Contact hours
<input type="checkbox"/>	Course number	<input type="checkbox"/>	Prerequisites
<input type="checkbox"/>	Subject code	<input type="checkbox"/>	Co-requisites
<input type="checkbox"/>	Grade Mode (N – alpha grade, P – Pass/Fail)	<input type="checkbox"/>	Cross-listings
<input type="checkbox"/>	Learning outcomes	<input type="checkbox"/>	Credit restrictions
<input type="checkbox"/>	Course Instructional Method (CLS, HYB, WB1, WEB)	<input type="checkbox"/>	Equivalency Courses
<input checked="" type="checkbox"/>	Delete course from Academic Calendar	<input type="checkbox"/>	Delete course from Program only (attach this form to program modification)
<input type="checkbox"/>	Supplementary Fees	<input type="checkbox"/>	Teaching and assessment methods
<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>	Term Change

DESCRIPTION AND/OR REASON FOR CHANGE AND WAYS IN WHICH IT MAINTAINS/ENHANCES COURSE/PROGRAM OBJECTIVES

This is one of four course codes for the APBS graduate seminar series. We are consolidating the course codes into a single course code to reflect this. This change will enhance the APBS program by unifying the students in the multidisciplinary Applied Bioscience program, rather than having students identify with a narrow field topic.

CHANGE TO CALENDAR DESCRIPTION (if required)

Current	Proposed

CHANGE TO CONTACT HOURS (if applicable):

Lecture	Lab
Tutorial	Other

OTHER CHANGES (if applicable)

Prerequisites	
Co-requisites	
Credit restrictions	
Credit exemptions	
Grading scheme	<input type="checkbox"/> letter grade <input type="checkbox"/> pass/fail

CHANGES TO LEARNING OUTCOMES (if applicable)

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CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

No financial implications.

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Faculty Curriculum Committee approval	October 25th, 2017
Faculty Council approval	November 1st, 2017
Reported to CPRC	

TEMPLATE 8-B

COURSE CHANGE TEMPLATE

For new courses see New Course Template

Faculty: Science	
Program: Applied Bioscience (APBS)	
Subject Code and Course Number: APBS 7200G	Current Full Course Title: Special Topics in Ecosystem Health
<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Current Short-Form Course Title (max. 30 characters):

COURSE CHANGES (check all that apply)

<input type="checkbox"/>	Course title	<input type="checkbox"/>	Credit weighting
<input type="checkbox"/>	Course description	<input type="checkbox"/>	Contact hours
<input type="checkbox"/>	Course number	<input type="checkbox"/>	Prerequisites
<input type="checkbox"/>	Subject code	<input type="checkbox"/>	Co-requisites
<input type="checkbox"/>	Grade Mode (N – alpha grade, P – Pass/Fail)	<input type="checkbox"/>	Cross-listings
<input type="checkbox"/>	Learning outcomes	<input type="checkbox"/>	Credit restrictions
<input type="checkbox"/>	Course Instructional Method (CLS, HYB, WB1, WEB)	<input type="checkbox"/>	Equivalency Courses
<input checked="" type="checkbox"/>	Delete course from Academic Calendar	<input type="checkbox"/>	Delete course from Program only (attach this form to program modification)
<input type="checkbox"/>	Supplementary Fees	<input type="checkbox"/>	Teaching and assessment methods
<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>	Term Change

DESCRIPTION AND/OR REASON FOR CHANGE AND WAYS IN WHICH IT MAINTAINS/ENHANCES COURSE/PROGRAM OBJECTIVES

This is one of four course codes for the APBS graduate seminar series. We are consolidating the course codes into a single course code to reflect this. This change will enhance the APBS program by unifying the students in the multidisciplinary Applied Bioscience program, rather than having students identify with a narrow field topic.

CHANGE TO CALENDAR DESCRIPTION (if required)

Current	Proposed

CHANGE TO CONTACT HOURS (if applicable):

Lecture	Lab
Tutorial	Other

OTHER CHANGES (if applicable)

Prerequisites	
Co-requisites	
Credit restrictions	
Credit exemptions	
Grading scheme	<input type="checkbox"/> letter grade <input type="checkbox"/> pass/fail

CHANGES TO LEARNING OUTCOMES (if applicable)

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CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

No financial implications

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Faculty Curriculum Committee approval	October 25th, 2017
Faculty Council approval	November 1st, 2017
Reported to CPRC	

TEMPLATE 8-B

COURSE CHANGE TEMPLATE

For new courses see New Course Template

Faculty: Science	
Program: Applied Bioscience (APBS)	
Subject Code and Course Number: APBS 7300G	Current Full Course Title: Special Topics in Forensic Bioscience
<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Current Short-Form Course Title (max. 30 characters):

COURSE CHANGES (check all that apply)

<input type="checkbox"/>	Course title	<input type="checkbox"/>	Credit weighting
<input type="checkbox"/>	Course description	<input type="checkbox"/>	Contact hours
<input type="checkbox"/>	Course number	<input type="checkbox"/>	Prerequisites
<input type="checkbox"/>	Subject code	<input type="checkbox"/>	Co-requisites
<input type="checkbox"/>	Grade Mode (N – alpha grade, P – Pass/Fail)	<input type="checkbox"/>	Cross-listings
<input type="checkbox"/>	Learning outcomes	<input type="checkbox"/>	Credit restrictions
<input type="checkbox"/>	Course Instructional Method (CLS, HYB, WB1, WEB)	<input type="checkbox"/>	Equivalency Courses
<input checked="" type="checkbox"/>	Delete course from Academic Calendar	<input type="checkbox"/>	Delete course from Program only (attach this form to program modification)
<input type="checkbox"/>	Supplementary Fees	<input type="checkbox"/>	Teaching and assessment methods
<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>	Term Change

DESCRIPTION AND/OR REASON FOR CHANGE AND WAYS IN WHICH IT MAINTAINS/ENHANCES COURSE/PROGRAM OBJECTIVES

This is one of four course codes for the APBS graduate seminar series. We are consolidating the course codes into a single course code to reflect this. This change will enhance the APBS program by unifying the students in the multidisciplinary Applied Bioscience program, rather than having students identify with a narrow field topic.

CHANGE TO CALENDAR DESCRIPTION (if required)

Current	Proposed

CHANGE TO CONTACT HOURS (if applicable):

Lecture	Lab
Tutorial	Other

OTHER CHANGES (if applicable)

Prerequisites	
Co-requisites	
Credit restrictions	
Credit exemptions	
Grading scheme	<input type="checkbox"/> letter grade <input type="checkbox"/> pass/fail

CHANGES TO LEARNING OUTCOMES (if applicable)

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CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

No financial implications

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Faculty Curriculum Committee approval	October 25th, 2017
Faculty Council approval	November 1st, 2017
Reported to CPRC	

TEMPLATE 8-B

COURSE CHANGE TEMPLATE

For new courses see New Course Template

Faculty: Science	
Program: Applied Bioscience (APBS)	
Subject Code and Course Number: APBS 7400G	Current Full Course Title: Special Topics in Human Health Biology
<input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective	Current Short-Form Course Title (max. 30 characters):

COURSE CHANGES (check all that apply)

<input type="checkbox"/>	Course title	<input type="checkbox"/>	Credit weighting
<input type="checkbox"/>	Course description	<input type="checkbox"/>	Contact hours
<input type="checkbox"/>	Course number	<input type="checkbox"/>	Prerequisites
<input type="checkbox"/>	Subject code	<input type="checkbox"/>	Co-requisites
<input type="checkbox"/>	Grade Mode (N – alpha grade, P – Pass/Fail)	<input type="checkbox"/>	Cross-listings
<input type="checkbox"/>	Learning outcomes	<input type="checkbox"/>	Credit restrictions
<input type="checkbox"/>	Course Instructional Method (CLS, HYB, WB1, WEB)	<input type="checkbox"/>	Equivalency Courses
<input checked="" type="checkbox"/>	Delete course from Academic Calendar	<input type="checkbox"/>	Delete course from Program only (attach this form to program modification)
<input type="checkbox"/>	Supplementary Fees	<input type="checkbox"/>	Teaching and assessment methods
<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>	Term Change

DESCRIPTION AND/OR REASON FOR CHANGE AND WAYS IN WHICH IT MAINTAINS/ENHANCES COURSE/PROGRAM OBJECTIVES

This is one of four course codes for the APBS graduate seminar series. We are consolidating the course codes into a single course code to reflect this. This change will enhance the APBS program by unifying the students in the multidisciplinary Applied Bioscience program, rather than having students identify with a narrow field topic.

CHANGE TO CALENDAR DESCRIPTION (if required)

Current	Proposed

CHANGE TO CONTACT HOURS (if applicable):

Lecture	Lab
Tutorial	Other

OTHER CHANGES (if applicable)

Prerequisites	
Co-requisites	
Credit restrictions	
Credit exemptions	
Grading scheme	<input type="checkbox"/> letter grade <input type="checkbox"/> pass/fail

CHANGES TO LEARNING OUTCOMES (if applicable)

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CONSULTATION AND FINANCIAL IMPLICATIONS, WHERE APPROPRIATE

No financial implications.

EFFECTIVE SEMESTER (Specify Term e.g. Fall 2017)

Fall 2018

APPROVAL DATES

Faculty Curriculum Committee approval	October 25th, 2017
Faculty Council approval	November 1st, 2017
Reported to CPRC	