

**From:** [Smith, Randy](#)  
**To:** [Kaizar, Elly](#)  
**Cc:** [Leite, Fabio](#); [Miriti, Maria](#); [Reed, Katie](#); [Smith, Randy](#); [Duffy, Lisa](#); [Hunt, Ryan](#); [Vankeerbergen, Bernadette](#); [Martin, Andrew W.](#); [Olesik, Susan](#)  
**Subject:** Proposal to revise the PhD in Biostatistics  
**Date:** Friday, April 5, 2024 9:21:40 AM  
**Attachments:** [image001.png](#)

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Elly:

The proposal from the Department of Statistics to revise the PhD in Biostatistics was approved by the Council on Academic Affairs at its meeting on April 3, 2024. Thank you for attending the meeting to respond to questions/comments.

No additional level of internal review/approval is necessary. This action will be included in the Council's next Annual Activities Report to the University Senate (July 2024).

The Office of the University Registrar will work you with any implementation issues.

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact the Chair of the Council, Professor Fábio Leite (.110, or me.

Randy



**W. Randy Smith, Ph.D.**

Vice Provost for Academic Programs

**Office of Academic Affairs**

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TO: Randy Smith, Vice Provost for Academic Programs

FROM: Graduate School Curriculum Services

DATE: **3/01/2024**

RE: Proposal to **Revise the PhD in Biostatistics** in **College of Arts and Sciences**

The **Department of Statistics** in the **College of Arts and Sciences** is proposing a **Revision to the PhD in Biostatistics**

The proposal was received by the Graduate School on **1/29/2024**. The combined GS/CAA subcommittee first reviewed the proposal on **2/28/2024**. The proposal is supported for elevation to CAA for review.

## Kowalsky, Lisa

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**From:** Vankeerbergen, Bernadette  
**Sent:** Monday, January 29, 2024 4:18 PM  
**To:** Miriti, Maria; Kowalsky, Lisa  
**Cc:** Martin, Andrew; Ottesen, Jennifer  
**Subject:** Revision Statistics MS, Statistics PhD, and Biostatistics PhD  
**Attachments:** Revision to the Statistics PhD - Revised 12-22-23.pdf; Revision to the Statistics MS - Revised 11-29-23.pdf; Revision to the Biostatistics PhD - Revised 12-22-23.pdf; Statistics PhD, Statistics MS, Biostatistics PhD Letter of Motion.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Dear Maria and Lisa,

Please find attached proposals to revise the Statistics PhD, Statistics MS, and Biostatistics PhD. The proposals were approved on Friday, January 19, 2024 by the ASC Curriculum Committee (ASCC).

We are now advancing the proposals to be reviewed by the Graduate School. The attached documents are (1) the actual proposals submitted by the Dept of Statistics & (2) the Natural and Mathematical Sciences Subcommittee cover letter to ASCC.

The contact for these proposals is Professor Yoonkyung Lee.

Please use this email as a cover letter indicating that the proposals have been duly reviewed and approved by the appropriate ASC curricular bodies (including the full ASC Curriculum Committee).

Please let me know if you have any questions.

My best,  
Bernadette



**Bernadette Vankeerbergen, Ph.D.**  
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<http://asccas.osu.edu>



Chair, Arts and Sciences Curriculum Committee

January 16, 2024

Dear Chair and Members of the Arts and Sciences Curriculum Committee:

On October 26, 2023, the Natural and Mathematical Sciences Subcommittee reviewed three related requests from the Department of Statistics to revise 1) the Statistics PhD program, 2) the Biostatistics PhD program, and 3) the Statistics MS program. For the Statistics PhD program, proposed changes are 1) the introduction of new coursework, including a new mathematics foundations sequence, and revision of existing coursework for all three programs. 2) the introduction of standard and accelerated tracks, as well as personalized pathways, in the Statistics PhD program, with the accelerated track allowing students to immediately begin second-year coursework, 3) the introduction of a mandatory placement exam to identify students who would benefit from the new mathematical foundations sequence, and 4) providing the option of taking a Master's-level exam at the start of the Statistics PhD program, success at which allows entry to the accelerated track. The department's rationale for these changes reflects the diversity of student background and preparation upon entering the programs. Some students have taken Master's-level coursework and may find first-year coursework to be repetitive, while other students may lack some of the necessary mathematical background.

Proposed changes to the Biostatistics PhD are 1) the introduction of new coursework in the first year and 2) changes to course requirements so that there is a single set of curriculum requirements for this interdisciplinary program. These department's rationale for the proposed changes is to unify the curriculum for this interdisciplinary program and to allow additional flexibility. Proposed changes to the Statistics MS are the introduction of new coursework in the first year. Changes to coursework in all three programs reflect the intertwined nature of these programs, as coursework in the first two years largely overlaps among programs. Therefore, changes to the required coursework for the Statistics PhD necessitate changes to required coursework in the Statistics MS and Biostatistics PhD programs.

The NMS Subcommittee voted to approve the proposed changes to the Statistics PhD with two contingencies and three recommendations and voted to approve the proposed changes to the Biostatistics PhD with one contingency. Revised submissions addressing these contingencies and recommendation wer reviewed and approved by Ian Hamilton, Chair of the Natural and Mathematical Sciences Subcommittee, on January 11, 2024. These proposal are now advanced to the ASCC with a motion to approve.

The NMS Subcommittee requested additional information on the proposed Statistics MS, which was received on November 29, 2023. The NMS Subcommittee voted to approve the proposed changes to the Statistics MS on December 7, 2024. This proposal is likewise now advanced to the ASCC with a motion to approve.

Sincerely,

A handwritten signature in black ink, appearing to be 'I. Hamilton', written in a cursive style.

Ian Hamilton  
Professor  
Department of Evolution, Ecology, and Organismal Biology  
Department of Mathematics  
Chair, ASCC Natural and Mathematical Sciences Subcommittee



Re: Revision of the Statistics MS and PhD Programs

October 9, 2023

Dear Colleagues and Panel Members,

On behalf of the Department of Statistics, I am pleased to put forward our proposals to revise the Masters of Science (MS) in Statistics and Doctor of Philosophy (PhD) in Statistics degrees. As described in more detail in the proposals themselves, these revisions respond to changes in the field and feedback from a variety of sources. We believe that the changes will improve the experience and training for many of our students. The proposed revisions for the MS and PhD programs are closely intertwined, since under the current curriculum, the first year courses for these programs are nearly identical.

In addition, the department is a key partner in the Interdisciplinary PhD in Biostatistics. Again, the first year courses in the current curriculum for this program are nearly identical to the statistics MS and PhD programs. Our faculty have been communicating our proposed course changes with the faculty of the Interdisciplinary PhD in Biostatistics. This faculty has shared with us their proposed curriculum that responds to our course changes, and we include this document for context. We also include a letter of concurrence from the chair of the Division of Biostatistics, which is the other major partner in the program.

We hope that you agree that our revisions to the Statistics MS and PhD programs will better serve our students, the Department of Statistics, and the university.

Sincerely,



Eloise E. Kaizar  
Professor and Chair  
Department of Statistics

## Response to ASCC Natural and Mathematical Sciences Subcommittee Feedback for Proposals

### 1. Statistics MS

- a. The Subcommittee asks the department to verify the wording in the proposal regarding the MS non-thesis as a steppingstone to the PhD program. The current wording gives the impression that the department is excluding MS thesis students from the PhD. If the department does not mean to imply this, the Subcommittee advises them to open the statement up by saying that the MS program can be a steppingstone to the PhD or to include the means by which MS thesis students can qualify for the program (if the requirements for them are meant to be different from the non-thesis students). [Proposal pg. 6]

Following the suggestion, we changed the sentence from “The Non-thesis route may serve as a steppingstone to the Ph.D. degree if later admitted to the Ph.D. program.” to “The Non-thesis route may better serve as a steppingstone to the Ph.D. degree if later admitted to the Ph.D. program.” The non-thesis route (passing the MS exam) is clearly better than the thesis route for those MS students who may continue to the PhD program, and that is consistent with how we advise MS students. It is because PhD students in our program are required to pass the MS exam at a high level as their first qualifying exam, and the second qualifying exam can be attempted only after the first qualifying exam has been passed. For this reason, while we do not exclude MS thesis students from the PhD, the thesis route will take much longer for students to fulfill the requirements for the PhD program. As an additional piece of information, most of our MS students take the non-thesis option, and with proper advising, to this date, there hasn’t been a single MS thesis student who went on to the PhD program.

- b. The Subcommittee would like the department to describe how, if at all, they are working with the Graduate School to address the conflict of the timing of the MS exam and student enrollment requirements given that Spring semester ends in April and the exam is in May.
- c. The Subcommittee is concerned that the exam is not in concurrence with the Graduate School’s definition of a master’s exam and asks if the Graduate School has approved the details of the MS exam for the department. See section 6.2 of the Graduate School handbook <https://gradsch.osu.edu/all/graduate-school-handbook-gsh#section6.2>.

Comments b and c are about the timing of the MS exam in our department. As stated in the proposal p.2, the MS program in statistics is designed to serve students who obtain an MS degree en route to a PhD in statistics or biostatistics as well as those who complete their education at the master's level. Because of this dual purpose, the coursework for the first year of the MS program and PhD program are identical, and the MS exam is designed to assess students' mastery of the core courses in the first year. The exam is scheduled for May following their first year, with a second chance in August if needed. This timing is *critical* for guiding both MS and PhD students in selecting their second-year courses based on their MS exam results. This MS exam arrangement was formally approved by the Graduate School during the semester conversion. With the Subcommittee's request, we sought confirmation from the Graduate School that the Graduate School supports the current exam arrangement for the MS program, which has proven to be successful for many years since semester conversion. The Associate Dean Maria Miriti immediately responded to our request positively as in the attached letter.



## 2. Statistics PhD

- a. **Contingency:** The Subcommittee asks that the department retitle the MS exam, perhaps describing it as an exam similar in nature to an MS exam without using that title, so that the Graduate School's master's examination rules do not prevent the department from enacting the exam as spelled out in the proposal. See section 6.2 of the Graduate School handbook <https://gradsch.osu.edu/all/graduate-school-handbook-gsh#section6.2>.

The Subcommittee's initial concern was from the timing of our current MS exam being in the summer term after the first-year coursework rather than in the final term when the student plans to graduate according to the Graduate School Handbook. As in our response to the Subcommittee's feedback on Statistics MS program revision proposal, the specific timing of the exam was proposed to guide both PhD and MS students more effectively during the semester conversion. This exam arrangement was formally approved by the Graduate School at the time and reconfirmed recently. Given the Graduate School's reapproval and the Subcommittee's recent approval of our MS program revision proposal, we trust that retitling of the MS exam is no longer a contingency.

- b. **Contingency:** The Subcommittee asks that the department submit a request in [curriculum.osu.edu](http://curriculum.osu.edu) to withdraw the course STAT 7303, as this course is no longer offered per the new requirements for the program and currently there are two courses on the books (STAT 7303 and 7302) with the same title. [Proposal pg. 4]

We have submitted a request to withdraw STAT 7303 (effective from Autumn 2025).

- c. **Recommendation:** The Subcommittee recommends referring to freshman and sophomore status as 1<sup>st</sup> and 2<sup>nd</sup> year. [Proposal pgs. 5-6]

We have made the recommended change in the revised proposal.

- d. **Recommendation:** The Subcommittee recommends that the department reach out to the Graduate School concerning the policies surrounding the scheduling of placement exams prior to the start of the semester/student arrival and how this might impact students (e.g., finances, living arrangements, visa status). In the scenario that the exam cannot be scheduled prior to the start of the semester, the Subcommittee notes that the exam can likely be done in the first two days of the semester without impeding students' course enrollment. [Proposal pgs. 5-6]

Over the past three years, our MS/Q1 exams have been scheduled for August 16-17, 17-18, and 18-19, respectively, while the GTA appointments have always started on August 16. Consequently, the MS/Q1 exam has consistently occurred

after the GTA appointment date, imposing no additional travel date constraints on our students. Most of our incoming PhD students come to our program with either GTA appointment or fellowship. Furthermore, international students are mandated to attend one of the OIA's in-person orientation sessions before the Autumn semester begins. For example, this year the two sessions were held on August 7-11 and August 14-18. As a result, many international students typically arrive at least one week before the semester begins, regardless of whether they are taking the MS/Q1 exam or not.

- e. *Recommendation:* The Subcommittee recommends that the department include the timing of the exams (e.g., 2<sup>nd</sup> year spring semester or following year 2) on the sample tracks in the proposal. [Proposal pgs. 8-9]

We have added the timing of the exams on sample programs in the proposal (see Proposal pgs. 8-9) as recommended.

### 3. Biostatistics PhD

- a. **Contingency:** The Subcommittee asks that the department include courses PUBHEPI 6410 and 6010 in the sample program since they are required courses for the program. The Subcommittee notes that this was likely a simple oversight, but it makes the sample program look incomplete.

We have added the two courses in the sample program (see Proposal pg. 11).

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# Biostatistics PhD Program Revision

## Background

The Interdisciplinary PhD program in Biostatistics is a collaboration between the Department of Statistics and the Division of Biostatistics in the College of Public Health.

The program was originally started with two tracks offering different emphasis within areas of biostatistics at that time (2008). Since that time, revisions to the program have reduced the differences between the tracks (now called specializations). These revisions included eliminating separate qualifying exams for each specialization (students now take the same two qualifying exams, regardless of specialization) and the creation of a common core of courses. The last major changes to the Interdisciplinary PhD program in biostatistics were reviewed and approved by CAA in November 2015. A few minor changes have been made to the program since then as summarized in the Appendix.

## Rationale

As noted above, the program has been moving toward a more unified curriculum as the field of biostatistics has evolved since 2008. Faculty meetings throughout 2022-2023 reflected a desire to unify the curriculum, allow students additional flexibility when selecting statistics/biostatistics electives not required by the common core courses (shared between the two specializations), and ensure that program learning objectives are met. As such, this proposal presents a single set of curriculum requirements for students in the Interdisciplinary PhD program.

A second rationale for many changes is that many of the courses in the first two years of the Biostatistics PhD program are shared with the Statistics PhD program. Therefore, the proposed changes to the Statistics PhD courses will also apply to the Biostatistics PhD program. Detailed information on the revised Statistics PhD program and the rationale for these revisions can be found in the “Statistics PhD Program Revision” document that accompanies this proposal.

## Outline of the Proposed Changes

### Unifying under one curriculum

This revision eliminates the two specializations within the Biostatistics PhD program. Students will follow the single curriculum proposed herein. As a single curriculum, we have also renamed sections of the curriculum for clarity.

#### Course changes (changes to Statistics PhD program coursework)

Revisions to the Statistics PhD curriculum include changes to the following 5 courses that directly affect the Biostatistics PhD program.

- 6111 (3 credits) & 6112 (3 credits): a new sequence for reviewing and introducing mathematical foundations necessary for the coursework in PhD and MS programs. This sequence with 6 credits total will replace MATH 4545 (4 credits) and STAT 6860 (2 credits).
- 6910 (4 credits) & 6950 (4 credits): resequencing of 6910 and 6950 changing their order.
- 7301 (3 credits): reduce redundancy with 6802 (first-year theory course) and introduce topics in high dimensional estimation which are relevant to contemporary applications.
- 7410 (3 credits): refocus course content to cover more applied statistical modeling techniques.

#### Course changes (required public health-related courses)

Under a single curriculum, the Biostatistics PhD program also added the following courses as required for all students to reflect program learning goals and student professional development:

- Require PUBHEPI 6410 (was previously required only for public health specialization students and as a “pick two [of three]” elective for methodology students)
- Require PUBHLTH 6010 (was previously required only for public health students)
- Require PUBHBIO 6260 (students have been previously encouraged but not required to take this course)
- Require PUBHBIO 8899 (students have been previously strongly encouraged but not required to take this course as preparation for statistical research)

#### Course changes (adding elective flexibility)

This revision also eliminates several explicitly required courses and increases the number of biostatistics electives. This change allows more flexibility for students pursuing different areas of interest within the field of biostatistics, while ensuring that the program learning goals are being met.

## Current vs. Proposed Curriculum

The tables below compare the proposed and current curricula. The current program guide for Biostatistics PhD program is available [here](#).

### Proposed: Foundational Math (currently “Core Math”)

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
MATH 4545	4	Analysis Overview				Removed
			6111	3	Foundations of Statistical Theory I	New course*
			6112	3	Foundations of Statistical Theory II	New course*

\*6111-6112 replace MATH 4545 and STAT 6860.

### Proposed: Biostatistics Core (currently “Core Statistics”)

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
STAT 6570	2	Applied Bayesian Analysis	STAT 6570	2		
STAT 6801	4	Statistical Theory I	STAT 6801	4		
STAT 6802	4	Statistical Theory II	STAT 6802	4		
STAT 6860	2	Foundations of the Linear Model	STAT 6860			Removed*
STAT 6910	4	Applied Statistics I	STAT 6910	4	Applied Statistics II	Resequenced and revised
STAT 6950	4	Applied Statistics II	STAT 6950	4	Applied Statistics I	Resequenced and revised
STAT 7301	3	Advanced Statistical Theory I	STAT 7301	3	Advanced Statistical Theory	Revised
STAT 7410	3	Theory of the Linear Model	STAT 7410	3	Linear Models	Revised
STAT 7430	3	Generalized Linear Models	STAT 7430	3		
STAT 7730	3	Advanced Computational Statistics	STAT 7730	3		

PUBHBIO 7245	2	Biostatistical Collaboration	PUBHBIO 7245	2		
PUBHBIO 8235	3	Advanced Regression Modeling for Time-to-Event Data	PUBHBIO 8235	3		

Proposed: Public Health Courses (consolidating into one curriculum)

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
			PUBHEPI 6410	3	Principles of Epidemiology	
			PUBHLTH 6010	3	Essentials of Public Health	
			PUBHBIO 6260	1	Ethics in Biostatistics	
			PUBHBIO 8899	1	Doctoral Seminar in Biostatistics	

Current: Methodology Specialization Required Courses

Required Advanced Statistics courses:

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
STAT 7201	3	Theory of Probability				Changed to elective
STAT 7540	3	Theory of Stochastic Processes				Changed to elective

“Pick two” Biostatistics courses:

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
PUBHEPI 6410	3	Principles of Epidemiology				Required for all students
PUBHBIO 7215 / STAT 6615	2	Design and Analysis of Clinical Trials				Changed to elective

STAT 8625/6625	3	Stat Methods for Genetic Data				Changed to elective
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#### Current: Public Health Specialization Required Courses

#### Required Biostatistics courses:

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
PUBHBIO 7215 / STAT 6615	2	Design and Analysis of Clinical Trials				Changed to elective
STAT 6540 / 7540	3	Applied Stochastic Processes / Theory of Stochastic Processes				Changed to electives

#### Public Health-related courses:

Current			Proposed			
Code	Credits	Title	Code	Credits	Title	Notes
PUBHEPI 6410	3	Principles of Epidemiology				Required for all students
PUBHLTH 6010	3	Essentials of Public Health				Required for all students
Public Health Elective	3	n/a				Removed

#### ***The percent change of the revision:***

The proposed program revision adds STAT 6111 (3 cr) and STAT 6112 (3 cr) as new courses although they can be viewed as replacements of the existing courses covering similar course content. The rest of the revised statistics courses (STAT 6910, 6950, 7301, and 7410) have about 15% of change on average in the course content (5-25% change depending on the course). This revision also requires specific public health courses for all students: PUBHEPI 6410 (3 cr), PUBHLTH 6010 (3 cr), PUBHBIO 6260 (1 cr), PUBHBIO 8899 (1 cr), although some of these courses were previously required or frequently taken as electives. Thus, at a maximum, this change represents 16.1 credits out 80 credits; representing a change of 20% to the program.



## Transition Plan

We will enact this program change for students entering the program in the academic year 2024-2025. Students who matriculated prior to Autumn 2024 will continue with the current program and will not be impacted by this redesign either in terms of progress towards their degree or their expected date of graduation. We do not anticipate any students will have taken only part of the applied statistics sequence (STAT 6910/6950) and thus be 'out of sequence' due to the course sequence change starting in Autumn 2024. In the unlikely event that this would occur, the Graduate Studies Chair will work individually with the student and appropriate instructors.

## Appendix

### A. Changes in the current Biostatistics PhD curriculum since last major changes (2015)

This section briefly describes changes in [the current Biostatistics PhD curriculum](#) from the curriculum in 2015 when major changes were made to the program. See [the Biostatistics PhD curriculum](#) approved by CAA in November 2015.

The core math and core statistics courses have not changed since 2015.

The additional courses required by the methodology specialization have not changed since 2015.

There was one change to the additional courses required by the public health specialization.

Specifically, the “Epidemiology” and “Cognate” required sections were merged into a single “Public health-related courses” section. The newly developed public health overview course PUBHLTH 6010 was added, and the number of public health electives was reduced. These changes are summarized in the table below:

Public Health Specialization: Public Health-Related Courses (Formerly “Epidemiology” and “Cognate”)

2015			Current			
Code	Credits	Title	Code	Credits	Title	Notes
PUBHEPI 6410	3	Principles of Epidemiology	PUBHEPI 6410	3	Principles of Epidemiology	
	6	[elective courses in a field outside of statistics or biostatistics]	PUBHLTH 6010	3	Essentials of Public Health	Added in 2018
				3	[elective course in a field outside of statistics or biostatistics]	

This change was made to ensure public health specialization graduates had an introduction to other areas of public health (beyond epidemiology).

In 2019, the number of elective credits was reduced by 1 in each specialization (to 7 for methodology) and 5 (for public health) to allow for more flexibility around 2 and 3 credit

courses as faculty had noted that students were choosing electives based on credit hours rather than content area.

Some minor language changes have also been added for clarity following faculty discussion.

## B. Revised Program Guide

## CURRICULUM OVERVIEW

The Interdisciplinary Biostatistics PhD require at least 60 credit hours of coursework. The program is a mix of core statistics courses, public health related coursework, and electives in biostatistics and statistics. The remainder of the minimum of 80 credits required for the PhD comprise individual reading and research related to developing the dissertation or other courses.

### REQUIRED COURSEWORK

Area/Course	Title	Credits
<b>Foundational Math</b>		<b>6 total</b>
*STAT 6111	Foundations of Statistical Theory I	3
*STAT 6112	Foundations of Statistical Theory II	3
<b>Biostatistics Core</b>		<b>35 total</b>
STAT 6570	Applied Bayesian Analysis	2
*STAT 6801	Statistical Theory I	4
*STAT 6802	Statistical Theory II	4
*STAT 6910	Applied Statistics II	4
*STAT 6950	Applied Statistics I	4
*STAT 7301	Advanced Statistical Theory	3
*STAT 7410	Linear Models	3
*STAT 7430	Generalized Linear Models	3
STAT 7730	Advanced Computational Statistics	3
*PUBHBIO 7245	Biostatistical Collaboration	2
*PUBHBIO 8235/STAT 7605 or STAT 8605	Advanced Regression Modeling for Time-to-Event Data or Advanced Survival Analysis	3
<b>Public Health Courses</b>		<b>8 total</b>
PUBHEPI 6410	Principles of Epidemiology	3
PUBHLTH 6010	Essentials of Public Health	3
PUBHBIO 6260	Ethics in Biostatistics	1
PUBHBIO 8899	Doctoral Seminar in Biostatistics	1
<b>Biostatistics Electives</b>		<b>11 total</b>
Elective credits can be from any 6000-level or higher STAT or 7000-level or higher PUBHBIO didactic course or other related courses as approved by the student's Candidacy Exam Committee and the Graduate Studies Chair.		
<b>Total Credit Hours</b>		<b>60 total</b>

\*Starred courses are pre-requisites for the Biostatistics PhD QII Exam.

## SAMPLE PROGRAM

	<b>Autumn Semester</b>	<b>Spring Semester</b>
<b>First Year</b>	STAT 6111 (Foundations I) STAT 6801 (Stat Theory I) STAT 6950 (Appl Stat I)	STAT 6112 (Foundations II) STAT 6802 (Stat Theory II) STAT 6910 (Appl Stat II)
<b>Second Year</b>	STAT 7301 (Adv Stat Theory) STAT 7410 (Lin Mod) PUBHBIO 8899 (Doctoral Seminar) PUBHBIO 6260 (Ethics in Biostat)	STAT 7430 (GLM) PUBHBIO 8235/STAT 7605/STAT 8605 (Adv Survival) PUBHBIO 7245/STAT 7755 (Biostat Collab)
<b>Third Year</b>	PUBHEPI 6410 (Principles of Epidemiology) Public Health or Elective Courses	STAT 7730 (Stat Computing) STAT 6570 (Applied Bayes)^ PUBHLTH 6010 (Essentials of Public Health)
<b>Fourth Year and Beyond</b>	Public Health or Elective Courses	Public Health or Elective Courses

^Students are encouraged to consider taking STAT 6570 in the spring of their first year

## TOTAL COURSE HOUR REQUIREMENTS

The doctoral program requires a minimum of 80 credits, including the 60 credits of required courses listed above. Note that the required curriculum leaves a maximum of 20 of the required 80 hours available for individual reading and research related to developing the dissertation. However, students may exceed the 80 required hours. A maximum of 30 credits of master's degree work may be applied to PhD requirements if approved by the Graduate Studies Committee. (See the Policies, Rules and Procedures for information about transferring credit from other universities.) A grade of B- or better is required in all courses in the PhD program. Students should be familiar with and follow any additional Graduate School enrollment rules and procedures.



**THE OHIO STATE  
UNIVERSITY**

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# Curriculum Proposal Checklist

**Title of Program:**

**Effective term:**

**College:**

**New/Establish:**

**Secondary Major Eligible:**

**Academic Unit:**

**Revise:**

**50% Revision:**

**Mark Up:**

**Program Contact:**

**Terminate:**

**Suspend:**

**Certificate Category\*:**

**Degree/Credential:**

**Program of Study :**

**Title:**

**Code:**

**Program Focus\*:**

**Credit hours to degree/credential:**

**Is this a change to the current total?**

**Yes**

**No**

**Program offered only online?**

**Yes**

**No**

**If yes, is there a signed MOU with ODEE?**

**Yes**

**No**

**Campus(es) where offered:**

**Columbus**

**ATI**

**Lima**

**Mansfield**

**Marion**

**Newark**

**Rationale:**

**Student Curriculum Sheet Required:**

**Four Year (or appropriate) Plan:**

**Academic Unit Curriculum Committee approval date:**

**College Curriculum Committee approval date:**

**Graduate School Council approval date\*:**

**Regional Campus approval date\*:**

**Council on Academic Affairs approval date:**

**University Senate approval date\*:**

**Board of Trustees approval date\*:**

**ODHE approval date\*:**

**\* If applicable**



February 28, 2024

Maria Miriti, PhD  
Associate Dean of Academic Affairs  
Graduate School - The Ohio State University  
[miriti.1@osu.edu](mailto:miriti.1@osu.edu)

Dear Dean Miriti,

The College of Public Health supports the Biostatistics PhD program revision submitted to the Graduate School for review for their meeting today, February 28<sup>th</sup>, 2024. The Academic Studies Governance Committee, which serves as the Graduate Studies Committee, reviewed and approved the proposal in November 2023.

Sincerely,

Aram Dobalian, JD, PhD, MPH  
Associate Dean of Graduate Studies  
Professor and Chair, Health Services Management and Policy  
College of Public Health

## Kowalsky, Lisa

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**From:** Droesch, Kynthia  
**Sent:** Wednesday, February 28, 2024 10:55 AM  
**To:** Shoben, Abigail; Kowalsky, Lisa; Bisesi, Michael  
**Cc:** Archer, Kellie; CPH ASGC  
**Subject:** RE: Regarding Biostatistics PhD Revision Proposal  
**Attachments:** Letter in support of revision to PhD in Biostatistics.pdf

Attached is a letter of support from the College of Public Health for this revision.

Thank you.



### Kynthia Droesch, MSED

Senior Director, Office of Academic Programs and Student Services (OAPSS)

College of Public Health

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[614-292-8350](tel:614-292-8350) Appointments/ [614-292-9767](tel:614-292-9767) Office

[droesch.4@osu.edu](mailto:droesch.4@osu.edu) [cph.osu.edu](http://cph.osu.edu)

Pronouns: she/her Pronunciation: Kin-thee-uh Dresh



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**From:** Shoben, Abigail <[shoben.1@osu.edu](mailto:shoben.1@osu.edu)>  
**Sent:** Wednesday, February 28, 2024 9:53 AM  
**To:** Kowalsky, Lisa <[kowalsky.10@osu.edu](mailto:kowalsky.10@osu.edu)>; Bisesi, Michael <[bisesi.12@osu.edu](mailto:bisesi.12@osu.edu)>  
**Cc:** Archer, Kellie <[archer.43@osu.edu](mailto:archer.43@osu.edu)>; Droesch, Kynthia <[droesch.4@osu.edu](mailto:droesch.4@osu.edu)>; CPH ASGC <[CPH-ASGC@osu.edu](mailto:CPH-ASGC@osu.edu)>  
**Subject:** RE: Regarding Biostatistics PhD Revision Proposal

Hi Lisa,

The revisions to the Interdisciplinary PhD program in biostatistics (a joint program between the department of statistics in arts and sciences and the division of biostatistics in the college of public health) were made and voted on by the program faculty and have been through the curricular approval process in both arts & sciences and the college of public health.

The revisions were uploaded by the department of statistics so that they would be reviewed at the same time as their program changes, given the level of overlap between the two.



If you need more information or further concurrence, please let us know.

Thank you,  
Abby Shoben

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Abigail B. Shoben, Ph.D.  
Graduate Program Chair, Interdisciplinary Program in Biostatistics  
Associate Professor, Division of Biostatistics  
College of Public Health  
The Ohio State University

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**From:** Kowalsky, Lisa <[kowalsky.10@osu.edu](mailto:kowalsky.10@osu.edu)>  
**Sent:** Tuesday, February 27, 2024 3:32 PM  
**To:** Bisesi, Michael <[bisesi.12@osu.edu](mailto:bisesi.12@osu.edu)>  
**Cc:** Archer, Kellie <[archer.43@osu.edu](mailto:archer.43@osu.edu)>; Shoben, Abigail <[shoben.1@osu.edu](mailto:shoben.1@osu.edu)>; Droesch, Kynthia <[droesch.4@osu.edu](mailto:droesch.4@osu.edu)>  
**Subject:** RE: Regarding Biostatistics PhD Revision Proposal

Thank you, Michael, much appreciated!

Best,  
Lisa



**Lisa Clouser (Kowalsky)**

**The Ohio State University**  
Graduate School  
247E University Hall  
230 N. Oval Mall, Columbus, OH 43210  
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Pronouns: she/her/hers

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**From:** Bisesi, Michael <[bisesi.12@osu.edu](mailto:bisesi.12@osu.edu)>  
**Sent:** Tuesday, February 27, 2024 3:30 PM  
**To:** Kowalsky, Lisa <[kowalsky.10@osu.edu](mailto:kowalsky.10@osu.edu)>  
**Cc:** Archer, Kellie <[archer.43@osu.edu](mailto:archer.43@osu.edu)>; Shoben, Abigail <[shoben.1@osu.edu](mailto:shoben.1@osu.edu)>; Droesch, Kynthia <[droesch.4@osu.edu](mailto:droesch.4@osu.edu)>  
**Subject:** Re: Regarding Biostatistics PhD Revision Proposal

Lisa,

I have copied the BIO Division Chair Dr. Kellie Archer and PhD Coordinator Dr. Abie Shoben to respond to your question.



Michael S. Bisesi, PhD

Vice Dean

Professor & Chair, Environmental Health Sciences

College of Public Health

Senior Strategic Advisor, OSU Global One Health initiative (GOHi)

Administrative Chair, Sustainability Education and Learning Committee

Fellow AIHA

Phone: (614) 247-8290 Email: [bisesi.12@osu.edu](mailto:bisesi.12@osu.edu)

(Administrative Assistants Samantha Hicks (614) 688-3822 [hicks.598@osu.edu](mailto:hicks.598@osu.edu) or

Mindy Freed [freed.28@osu.edu](mailto:freed.28@osu.edu))

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**From:** Kowalsky, Lisa <[kowalsky.10@osu.edu](mailto:kowalsky.10@osu.edu)>

**Sent:** Tuesday, February 27, 2024 12:17 PM

**To:** Bisesi, Michael <[bisesi.12@osu.edu](mailto:bisesi.12@osu.edu)>; Droesch, Kynthia <[droesch.4@osu.edu](mailto:droesch.4@osu.edu)>

**Subject:** Regarding Biostatistics PhD Revision Proposal

Dear Michael, and Kynthia,

Good afternoon, I hope you are both doing well!

I am reaching out regarding a proposal we have received for review at the Graduate School from the Department of Statistics within the College of Arts and Sciences, revising the PhD in Biostatistics program. The proposal, which is slated for review at GS/CAA tomorrow (2/28), does not include concurrence or parallel revisions planned from the College of Public Health. We want to ensure you are in agreement with these revisions and to check the status of revisions to this degree from College of Public Health.

Best,  
Lisa



THE OHIO STATE UNIVERSITY  
GRADUATE SCHOOL

**Dr. Maria N. Miriti**

**Professor, Dept. of Evolution, Ecology, and Organismal Biology**

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Pronouns: she/her/hers