



INDIANA UNIVERSITY

DEPARTMENT OF ANATOMY AND CELL BIOLOGY
School of Medicine

November 1, 2016

Randy R. Brutkiewicz, PhD
Associate Dean for Graduate Studies

Janice Blum, PhD
Associate Vice Chancellor for Graduate Education at IUPUI
Associate Dean of the University Graduate School, Indiana University

Dear Drs. Brutkiewicz and Blum,

I am writing to formally request a minor modification to the Education Track PhD Program in Anatomy and Cell Biology (see attached). Specifically, we wish to reduce the number of times that a student is required to repeat D878 Anatomy Teaching Practicum (2).

Currently, we require students to repeat this practicum 3 separate times for a total of 6 hours credit. Going forward, we will require the students to repeat the practicum only **2 times for a total of 4 hours credit**.

This change is in response to the new medical curriculum, which combines anatomy topics previously taught in 3 separate courses (gross anatomy, histology, and neuroanatomy). Thus, it is no longer necessary to assess student teaching in 3 separate courses. This curricular modification has been unanimously approved by the department's Graduate Studies Committee.

Thank you for your consideration. Please let me know if you require further information.

Sincerely,

James J. Brokaw, PhD, MPH
Vice Chair for Education
Director, Education Track PhD Program

CC:
K. Jones
J. Bidwell



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Office of the Vice President for
University Development
1000 University Blvd
Bldg 2000

**Degree Plan for Education Track PhD
in Anatomy and Cell Biology—Indianapolis
Revised 11-1-16**

Biomedical Courses (35-37 hours)

- MED X620 Human Structure (8)

 - MED X630 Molecules to Cells and Tissues (8)

 - MED X660 Neuroscience and Behavior (6)
OR
 - ANAT D701 Translational Neuroscience (5)

 - MED X640 Fundamentals of Health and Disease (6)
OR
 - PHSL F503 Human Physiology (5)

 - ANAT D861 Anatomy Education Seminar (1); required yearly, which would sum to 5 credit hours assuming a 5-year degree completion time; this seminar series will focus on educational topics rather than bench research.
- ANAT D878 Anatomy Teaching Practicum (2); supervised teaching in Gross Anatomy, Histology, and Neuroscience (**repeated for ~~6 hours~~ 4 hours total**); this teaching will entail lecturing as well as assisting in laboratory instruction.

Education Courses—Doctoral Minor (18 hours)

- MSCI M620 Pedagogical Methods in the Health Sciences (3)
OR
- SHRS W672 College Teaching Methodologies (3)

- EDUC J500 Instruction in the Context of Curriculum (3)
OR
- EDUC C750 Curriculum in Higher Education (3)

- EDUC P540 Learning and Cognition in Education (3)

- EDUC Y611 Qualitative Inquiry in Education (3)

- EDUC Y521 Methodological Approaches to Educational Inquiry (3) (PREFERRED)
OR
- EDUC Y520 Strategies for Educational Inquiry (3)
In special circumstances, either of the courses below may substitute for Y521 or Y520 with permission of the student's advisory committee:
 - EDUC Y510 Action Research (3)
 - EDUC C750 Scholarship of Teaching and Learning (3)

- And select **ONE** of these:
 - EDUC Y525 Survey Research (3)
OR
 - EDUC Y603 Statistical Design of Educational Research (3)
OR
 - EDUC C750 Topical Seminar (3)
OR
 - Another education course if approved by the student's advisory committee

Statistics Courses (6-7 hours)

- EDUC Y502 Intermediate Statistics Applied to Education (3); requires concurrent registration with EDUC Y500 Computer Lab for Educational Statistics (1) (prerequisite: EDUC Y520 Strategies for Educational Inquiry or a course in basic statistics)
OR
- PBHL B551 Biostatistics for Public Health I (3)
- EDUC Y604 Multivariate Analysis in Educational Research (3)
OR
- PBHL B652 Biostatistics for Public Health II (3)

Electives and Research Credits (28-31 hours)

- Electives to be selected in consultation with advisor. Students are encouraged to take at least 9 hours of advanced coursework in the biomedical sciences, education, or statistics. Examples of suitable electives include but are not limited to:
 - ANAT D864 Advanced Gross Anatomy (2)
 - ANAT D856 Advanced Histology (2)
 - ANAT D875 Advanced Neuroanatomy (2)
 - ANAT D700 Educational Research Practicum (2)
 - ANAT D878 Anatomy Teaching Practicum (2)
 - ANAT D853 Human Developmental Anatomy (3)
 - GRAD G655 Research Communications Seminar (1)
 - STAT 53300 Nonparametric Statistics (3)
 - PSY 60800 Measurement Theory and Interpretation of Data (3)
 - TECH 58100 Mixed Methods Research (4)
 - EDUC Y612 Critical Qualitative Inquiry (3)
 - EDUC C795 Dissertation Proposal Preparation (3)
- ANAT D860 Dissertation Research (cr. arr.)—sufficient to complete the 90 credit hour degree requirement

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 IN SCHOOL OF MEDICINE
 GREAT BAY DIVISION

**Degree Plan for Education Track PhD
in Anatomy and Cell Biology—Bloomington
Revised 11-1-16**

Biomedical Courses (37 hours)

- ANAT A620 Human Structure (8)
 - MSCI M630 Molecules to Cells and Tissues (8)
 - MSCI M660 Neuroscience and Behavior (6)
 - PHSL P640 Fundamentals of Health and Disease (6)
 - ANAT A850 Seminar (1); required yearly, which would sum to 5 credit hours assuming a 5-year degree completion time; this seminar series focuses on educational topics rather than bench research.
- ANAT A878 Anatomy Teaching Practicum (2); supervised teaching in Gross Anatomy, Histology, and Neuroscience (**repeated for 6 hours 4 hours total**); this teaching entails lecturing as well as assisting in laboratory instruction.

Education Courses—Doctoral Minor (18 hours)

- MSCI M620 Pedagogical Methods in the Health Sciences (3)
OR
- SHRS W672 College Teaching Methodologies (3)
- EDUC J500 Instruction in the Context of Curriculum (3)
OR
- EDUC C750 Curriculum in Higher Education (3)
- EDUC P540 Learning and Cognition in Education (3)
- EDUC Y611 Qualitative Inquiry in Education (3)
- EDUC Y521 Methodological Approaches to Educational Inquiry (3) (PREFERRED)
OR
- EDUC Y520 Strategies for Educational Inquiry (3)
In special circumstances, either of the courses below may substitute for Y521 or Y520 with permission of the student's advisory committee:
 - EDUC Y510 Action Research (3)
 - EDUC C750 Scholarship of Teaching and Learning (3)
- And select **ONE** of these:
 - EDUC Y525 Survey Research (3)
OR
 - EDUC Y603 Statistical Design of Educational Research (3)

OR

- EDUC C750 Topical Seminar (3)

OR

- Another education course if approved by the student's advisory committee

Statistics Courses (8 hours)

- EDUC Y502 Intermediate Statistics Applied to Education (3); requires concurrent registration with EDUC Y500 Computer Lab for Educational Statistics (1) (prerequisite: EDUC Y520 Strategies for Educational Inquiry or a course in basic statistics)
- EDUC Y604 Multivariate Analysis in Educational Research (3); requires concurrent registration with EDUC Y500 Computer Lab for Educational Statistics (1)

Electives and Research Credits (27 hours)

- Electives to be selected in consultation with advisor. Students are encouraged to take one or more advanced courses in the biomedical sciences, education, or statistics.
- ANAT A530 Special Topics (cr. arr.) – a supervised readings course with a faculty mentor (may be repeated for credit)
- ANAT A800 Dissertation Research (cr. arr.) – sufficient to complete the 90 credit hour degree requirement

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10 School of Medicine
Graduate Division

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11/1/16