INDIANA UNIVERSITY
SCHOOL OF MEDICINE
Graduate Division

Friday, April 12, 2013

To: Sherry Queener, Ph.D.
Associate Dean
Indiana University Graduate School

From: Patricia J Gallagher, PhD.
Associate Dean for Graduate Studies
Indiana University School of Medicine

Re: **Request for Curriculum Change:**

Anatomy Education Track Doctoral Program

This memorandum is to request approval for a change in curriculum for the Anatomy Education Track Doctoral program. The Anatomy Education Track degree has two "core" areas: Biomedical Core (35 credits) and an Education Core (18 credits). In addition, there are statistics courses (6-7 credits), and free electives (9 credits) as well as research credits (up to 21 credits) that complete the 90 credit curriculum.

The proposed curriculum change is requesting addition of F613 Medical Physiology (5 credits) and Y611 Qualitative Inquiry in Education (3 credits) as required courses for the curriculum and in addition requests some optional courses (see attached) that are meant to allow students some flexibility in their curriculums.

After reading the attached documents, I strongly support this change in curriculum as it incorporates important course requirements as well as provides additional options for students. If approved by you (Dr. Queener), please ensure these changes are made in the graduate catalog.

635 N Barnhill Drive, MS 207 Indianapolis, Indiana 46202 (317) 274-3441 *fax* (317) 278-5211

Proposed Changes to Anatomy Education Track Curriculum

Biomedical Courses (35 hours)

- D850 Gross Anatomy (7)
- D851 Histology (4)
- D852 Neuroscience and Clinical Neurology (5)
- X/G804 Cellular and Molecular Biology (3)

ADD REQUIRED COURSE

- F613 Medical Physiology (5)

- D861 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.
- D878 Anatomy Teaching Practicum (2); supervised teaching in Gross Anatomy, Histology, and Neuroscience (repeated for 6 hours total); this teaching will entail lecturing as well as assisting in laboratory instruction.

Education Courses—Doctoral Minor (18 hours)

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

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

- P540 Learning and Cognition in Education (3)

ADD REQUIRED COURSE

- Y611 Qualitative Inquiry in Education (3)

ADDITIONAL OPTIONS TO SATISFY REQUIRED COURSE

- Y521 Methodological Approaches to Educational Inquiry (3) (PREFERED)
  OR
- 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:

- Y510 Action Research (3)
- C750 Scholarship of Teaching and Learning (3)

- And select **ONE** of these:
  - Y525 Survey Research (3)
    OR

- Y603 Statistical Design of Educational Research (3)
  OR
- C750 Topical Seminar (3)
- **OR**
- Another education course if approved by student's advisory committee

Statistics Courses (6-7 hours)

- Y502 Intermediate Statistics Applied to Education (3); requires concurrent registration with Y500 Computer Lab for Educational Statistics (1) (prerequisite: Y520 Strategies for Educational Inquiry or a course in basic statistics)
- **OR**
  P551 Biostatistics for Public Health I (3)

- Y604 Multivariate Analysis in Educational Research (3)
- **OR**
  P652 Biostatistics for Public Health II (3)

Free Electives (9 hours)

- To be selected in consultation with the advisory committee. Examples of suitable electives include:
  - G655 Research Communications Seminar (1)
  - STAT 53300 Nonparametric Statistics (3)
  - Simulation Science in Medical Education (3)—in development
  - Clinical Embryology (2)—in development
  - Other courses in biomedical sciences, education, or statistics

Research (~21 hours)

- D700 Educational Research Practicum (2); a structured and supervised experience with faculty research mentors (may be repeated for up to 6 hours total)
- D860 Dissertation Research (cr. arr.)—sufficient to complete the 90 credit hour degree requirement

Suggested Course Sequence for the Education Track at Indianapolis

	Fall	Spring	Summer
Year 1	Gross Anatomy (7) Cellular & Molecular Biology (3) Methodological Approaches to Educational Inquiry (3)	Histology (4) Pedagogical Methods in the Health Sciences (3) Free Elective (3) Seminar (1)	Instruction in Context of Curriculum (3)
Year 2	Neuroscience and Clinical Neurology (5) Qualitative Inquiry in Education (3) Intermediate Statistics Applied to Education w/lab (4) Anatomy Teaching Practicum (2)	Medical Physiology (5) Education Selective (3) Free Elective (3) Anatomy Teaching Practicum (2) Seminar (1)	Learning and Cognition in Education (3) Research
Year 3	Multivariate Analysis in Educational Research (3) Free Elective (3) Anatomy Teaching Practicum (2) Research	Seminar (1) Research	Qualifying Exam Research
Year 4	Research	Seminar (1) Research	Research
Year 5	Research/Dissertation	Seminar (1) Research/Dissertation	Oral Defense