



## INDIANA UNIVERSITY

SCHOOL OF MEDICINE

### Memorandum

To: Nasser Paydar, PhD  
Executive Vice Chancellor, Chief Academic Officer  
Indiana University-Purdue University Indianapolis

Janice Blum, PhD  
Associate Vice Chancellor, IUPUI Graduate Education  
Associate Dean, Indiana University Graduate School

Randy Brutkiewicz, PhD  
Associate Dean, IU School of Medicine Graduate Studies

From: Kurt Kroenke, MD  
Director, Indiana University's Clinical Research Master of Science & Certificate Programs

Date: October 9, 2014

Subject: Minor in Clinical Research Proposal

In recent years, several of the MS/Certificate in Clinical Research core courses have become attractive to individuals completing a Ph.D. program, so it became apparent that creating a minor in Clinical Research would be useful and relevant to students, who plan to include clinical research as a component of their future career goals.

The 12 credit Minor in Clinical Research is designed to be of service to a diverse clientele, including individuals, who as of yet have little knowledge of clinical research to individuals, who are already deeply vested in a particular issue in this arena, but who seek to broaden their knowledge of clinical research more generally. Completion of the Minor would give students a greater awareness of clinical research methodologies, and how to apply them to basic/translational research issues and problems. It would also enhance ongoing partnerships and collaborations between biomedical scientists, engineers and translational scientists by providing opportunities for greater integration of basic, translational and clinical research. Students, who complete the minor, are expected to be valuable sources of information regarding clinical research.

This program has been designed to enhance the basic science training of doctoral students with the addition of clinical research approaches that focus on the application of these approaches in the area of human disease. A long term goal is to establish a training program that addresses the critical need for generating talented research scientists, who can pursue a career that lies at the interface between basic and clinical investigative medicine.

Thank you for your consideration.

RRB  
10/22/14

## IUPUI Graduate Office Form for Creation of A Graduate Minor

Date

10/09/2014

Institution

Indiana University

School

IU School of Medicine

Department

Clinical Research

Location

On campus

Is 50% or more online?

☐ Yes☒ No

Official Name of Minor (required)

Minor in Clinical Research

Projected semester and  
year of implementation\*:

Spring 2015

\*This does not guarantee the minor will be approved by the semester requested. It must still go through the appropriate approval process.

Academic Career (required)

GRAD (open to all programs)

If minor is not open to all programs, please explain the  
limitation:

N/A

Brief description:

The Minor in Clinical Research includes a minimum of 12 credit hours: 9 credit hours of core coursework, and 3 credit hours of elective coursework. Students must complete three of the following core courses: Clinical Research Methods (G660); Clinical Trials (G661); Introduction to Research Ethics (G504) or Ethical and Policy Issues in International Research (P555); Biostatistics I (B651) or alternate biostatistics course for a total of 9 credit hours, and one elective course (3 credit hours). If a student has completed any of the core courses as a part of their PhD program, an approved elective course may be substituted for the core course. The purpose of this minor is to offer clinical research training to basic/translational research scientists.

Rationale for new minor:

In recent years, several of the MS in Clinical Research core courses have become attractive to individuals completing a PhD program. It soon became apparent that creating a Minor in Clinical Research would be useful and relevant to students, who plan to incorporate a component of clinical/translational research into their future career goals. The 12 credit hour Minor is designed to provide students with the opportunity to develop clinical research skills that are applicable to their PhD studies. Introducing basic scientists to the areas of human disease, and clinical research will help facilitate much needed translational research in all areas of medicine and science. We believe that this kind of innovative education is critically important at a time when advances in basic science can rapidly impact the diagnosis, and treatment of human disease.

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10/22/14

List of required courses:

List of elective or substitute courses:

Clinical Research Methods (G660) Clinical Trials (G661) Intro to Research Ethics (G504) <b>or</b> Ethical & Policy Issues in International Ethics (P555) Intro to Biostatistics I (B651) or alternate Biostatistics course	Fundamentals of Epidemiology (E517) Advanced Epidemiology (P601) Critical Inquiry - Health Sciences (W520) Foundations of Qualitative Research (R610) Biostatistics - Public Health II (P652) Patient Reported Outcomes & Econ Evaluation (W540) Quantitative Methods in Sociology (S659) Techniques of Effective Grant Writing (N802) Tools & Techniques in Translational Research (G667) Other Graduate Level Courses (approved by Program Director)
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### Contact Information

Contact person for this minor: (required)

Suzanne R. Galbraith

Contact person's e-mail: (required)

sgalbrai@regenstrief.org

Contact person's phone number (optional):

(317) 274-9089

Student advisor (if different than above):

Kurt Kroenke, MD

Student advisor's e-mail:

kkroenke@regenstrief.org

Student Advisor's phone number (optional):

(317) 274-9046

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Comments:

The Clinical Research Minor will help facilitate the interaction of scientists and engineers interested in common problems and increase the cross-pollination of ideas between scientists and engineers in basic and clinical departments. Locally and nationally, there is a high demand for translational researchers, and employers in research and development fields require that new doctoral employees participate in extensive post-doctoral fellowships in order to develop the skills needed to design and conduct independent research. This program would provide Indiana University graduates with an employment edge by giving them some of that needed knowledge and experience. With the completion of this minor, PhD graduates should experience increased opportunities for employment and advancement in university, industry, or government research settings.

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