APPLICATION TO THE MEDICAL SCIENCES INTERDEPARTMENTAL AREA (MSIA) GRADUATE PROGRAM FROM THE CENTER FOR CLINICAL AND TRANSLATIONAL RESEARCH (CCTR) TO OFFER GRADUATE DEGREES WITH A CLINICAL AND TRANSLATIONAL RESEARCH CONCENTRATION

I DESCRIPTIVE INFORMATION
A. Brief Description/Purpose of the Program

The University of Nebraska Medical Center’s (UNMC) Center for Clinical and Translational Research (CCTR) with its interdepartmental Graduate Faculty seeks affiliation with the Medical Sciences Interdepartmental Area (MSIA) Graduate Program for the purpose of directing graduate study at the masters and doctoral level in the area of multidisciplinary clinical and translational research. The new Clinical and Translational Research Track will be administered by the multi-college CCTR at UNMC through the MSIA Graduate Program. This new area of specialization is intended to train health professionals with advanced degrees in medicine, dentistry, nursing, pharmacy or allied health to be competent investigators in the design, execution, analysis and dissemination of clinical and translational research. Students will be able to complete graduate degrees (MS and PhD) within the MSIA with an emphasis in Clinical and Translational Research. The degrees are designed to optimize knowledge and execution of multidisciplinary ethically and methodologically sound patient-oriented research, epidemiologic and behavioral research, outcomes research and health services research.

B. Abstract of the Proposal

The National Institutes of Health’s (NIH) definition of Clinical Research is research dealing in: (a) Patient-oriented research. Research conducted with human subjects (or on material of human origin such as tissues, specimens and cognitive phenomena) for which an investigator (or colleague) directly interacts with human subjects. This area of research includes: mechanisms of human disease, therapeutic interventions, clinical trials or development of new technologies; (b) Epidemiologic and behavioral studies; and (c) Outcomes research and health services research.

To address the lack of sustained formal didactic and hypothesis-based research training focused in clinical and translational research for health professionals, the multi-college CCTR has identified a core group of Graduate Faculty at the University of Nebraska and UNMC who will administer and act as instructors and mentors in the proposed program for Clinical and Translational Research track through the MSIA. The CCTR at UNMC is establishing this new graduate area of specialization in Clinical and Translational Research aimed at producing competent clinical investigators who in turn are expected to sustain the growth of clinical and translational research at UNMC. The proposed Clinical and Translational Research track is consistent with the educational and research mission of the newly established CCTR at UNMC, the MSIA and the UNMC Graduate Studies Program.

The Clinical and Translational Research Track provides both introductory and advanced instructions in research methods using the principles of epidemiology and biostatistics that include scientific writing with the design and analysis of quantitative clinical and translational data. It will also familiarize students with how qualitative analysis can be used in clinical and translational research whose focus are more psychosocial in nature. The Clinical and Translational Research track will provide
health professionals and scientists with different interests and backgrounds a much needed environment to learn and harness multidisciplinary approaches to graduate education and research questions. A long term goal is to provide sustained interactions between graduate students and mentors to translate research ideas into nationally fundable proposals and to answer important clinical and translational research questions.

The new Clinical and Translational Research track utilizes many of the currently existing graduate courses offered by Graduate Studies at UNMC, UNL and UNO. However, the Clinical and Translational Research track is unique in that it will provide a more tailored approach in the specific clinical and translational research training needed to be a successful independent investigator in the health sciences. Typical applicants for the Clinical and Translational Research track will include physicians, nurses, and other health professionals with a history of other specialty training interested in an academic medicine position that includes clinical and translational research. The pursuit of graduate studies with a specialization in Clinical and Translational Research would allow such candidates to acquire tools and competencies that would facilitate the translation of a research question into a fundable research proposal and completed work under the supervision of a multidisciplinary graduate faculty.

II PROGRAM FORMULATION AND SELF-STUDY REPORT

A. Centrality to Role and Mission

Graduate Studies at UNMC provide for graduate education at both the masters and doctoral level through the University of Nebraska Graduate College. The MSIA is an approved graduate program with a multidisciplinary approach to graduate education through UNMC Graduate Studies. The soon to be established Center for Clinical and Translational Research (CCTR) is a multi-college center that includes the departments and colleges that participate in MSIA. The CCTR is intended to transform and energize clinical research at UNMC by bringing together basic and clinical faculty, consolidating core facilities and other resources, and developing new clinical training programs. Currently, clinical research training varies between departments and colleges and does not encourage interdisciplinary interaction. This new defined graduate program will focus on the training of health professions in clinical and translational research. The Clinical and Translational Research track under the MSIA graduate program is intended to train health professionals with diverse research interests in the nuances of clinical and translational research conducted in a multi-disciplinary environment. It is hoped this graduate training will serve as a catalyst for future innovative research.

B. Consistency with the Comprehensive Statewide Plan for Postsecondary Education

The proposed Clinical and Translational Research track within the MSIA is consistent with the Comprehensive Statewide Plan for Postsecondary Education (CCPE).

C. Proposed Program of Study for Clinical and Translational Research Track through MSIA.

C.1 Program Objectives
The proposed Clinical and Translational Research track under the MSIA Graduate Program has the following general objectives: A) to train future clinical investigators in the conduct of methodologically and ethically sound clinical and translational research as applied to the individual’s area of interest and expertise while maximizing collaboration across scientific disciplines, and B) to serve as a conduit for training clinical investigators to effectively design and conduct studies that optimize the translation of laboratory findings into clinically useful interventions that have the potential to enhance the health and well-being of individuals and communities.

The specific objectives of the Clinical and Translational Research track are:

1. To communicate and be able to implement basic principles in the art and science of multidisciplinary clinical and translational research as applied in one’s area of interest. This entails the following:
   a. Describe and understand the implementation of theories and principles of designing and executing different types of study designs to include: observational, experimental, or interventional (both behavioral and clinical trials) studies
   b. Be able to implement biostatistical and epidemiological concepts including the use of univariate and multivariate analysis as applied to different types of study designs and data
   c. Describe and adhere to the principles of conducting ethical scientific studies using animals and human subjects
   d. Identify the structure, processes and regulations involved in the execution and submission of research grants including its research plan, budget plan, and other federal requirements

2. To gain specific competencies in the following areas:
   a. Formulation of sound, hypothesis-driven, and testable conceptual study frameworks
   b. Designing methodologically rigorous observational, experimental, or interventional (both behavioral and clinical trials) studies, including aspects of data warehousing and safety monitoring
   c. Write and execute research plans utilizing observational, experimental and interventional studies including aspects of organizing collaborators, research staff and other research needs
   d. Presentation and dissemination of research findings locally and/or nationally including publishing research articles

3. To complete a research plan utilizing multi-disciplinary approaches as applied in a trainee’s area of research interest that utilizes an observational, experimental or interventional study design.

4. To train competent scientists who can achieve external funding with preliminary data, grant writing and other knowledge and skills acquired from the program.

C.2 Admissions to the CTR Track and Role of Graduate Advisory Committee

The Center for Clinical Translational Research (CCTR) will supervise the Clinical and Translational Research track through MSIA. Members of the CCTR’s Advisory Committee (Appendix 1) will serve as the Clinical and Translational Research track Graduate Advisory Committee and will review applications and recommend admission
to this graduate specialization track. All applicants must meet the admissions requirements of the UNMC Graduate Studies Program and the MSIA Graduate Program. A member of the CCTR Graduate Advisory Committee will serve as the Clinical and Translational Research track representative on the MSIA Graduate Committee.

The narrative required in the Graduate Studies admission application should include a description of the applicant’s clinical or translational research interest. At admission, the applicant may identify a primary research mentor. As faculty members may apply to this Clinical and Translational Research track, the guidelines of the UN Graduate College will be followed in that the primary research mentor cannot belong to the same department as the applicant.

**Admission and Progress toward a Master’s degree in Clinical Translational Research**

For applicants admitted to a master’s Clinical and Translational Research track program, the CCTR’s Graduate Advisory Committee will assign a supervisory committee of Graduate Faculty including, but not limited to, the clinical research mentor (primary mentor) and a second mentor with expertise to evaluate competencies in research methods. The Advisory Committee will meet with the student on a regular basis and will be responsible for supervising all required graduate exams (comprehensive and final thesis defense). Additional responsibilities of the Advisory committee will be to approve the program of study, and research area as well as an annual portfolio. Minutes of all meetings and decisions will be forwarded to the CCTR Graduate Advisory Committee for approval as well as to the MSIA Graduate Program and the Graduate Studies Office. The course of study will include a description of how both didactic and actual research work as well as a comprehensive exam will be accomplished within the time frame of the graduate study period. Integral to the program of study is performing, writing and defending thesis research as a requirement for graduation.

**Admission and Progress toward a Doctoral degree in Clinical and Translational Research**

While the admission and progress for the master’s and doctoral programs are similar, doctoral students must also meet all additional requirements outlined in the procedures document for MSIA students and from the Office for Graduate Studies at UNMC. Appointment of the doctoral supervisory committee and other requirements such as the approval of a final course of study must be approved by the supervisory committee and the CCTR Committee before forwarding to the MSIA and Graduate Studies for final approval.

**C.3 Program of Study**

The CCTR Graduate Advisory Committee at UNMC will oversee the admission of students, appointment of master’s and doctoral graduate committees, and review and approval of each program of study submitted by a supervisory committee. Graduate students in the Clinical and Translational Research track must satisfy the requirements of the UNMC Graduate Studies Program and the Clinical and Translational Research track Program under the MSIA. These are not limited to but include:
Didactic course work (described in subsequent section)
Participation in Seminars designed by the CCTR
NIH Required Seminar in Responsible Conduct in Research
Completion of an appropriate comprehensive exam
Completion and successful defense of a thesis (master’s level) or dissertation (doctoral level)

Students accepted to the Clinical and Translational Research track will meet with the Graduate Advisory or Supervisory Committee and submit a Program Course of Study during the first semester. Such program of study will be submitted to the CCTR, the Graduate Studies Office and the Chair of the MSIA Graduate Committee.

C.4 Comprehensive Evaluation
All master’s and doctoral students in the Clinical and Translational Research track will be required to complete written and/or oral comprehensive examinations as described in the MSIA Procedures document and the Graduate Studies Bulletin. It is the expectation that graduates who completed the training in Clinical and Translational Research Track would be competent investigators who are ready to write and submit a mentored K award or independent investigator-initiated proposal to a national extramural funding source.

C.5 Course Offering
C.5.a Program Admission Requirements
Graduate students in the Clinical and Translational Research track will usually hold a doctoral degree in medicine, dentistry, pharmacy, veterinary medicine, law or other fields of allied health or a master’s degree in nursing or another public health-related field. Applicants with clinical training and/or experience and/or with significant academic appointments in any advanced degree giving institution would be given preference. Applicants with significant leadership roles in any health-related agency including pharmaceutical companies or patient advocacy groups will also be considered for admission to the program. Other applicants will be considered on an individual basis. Applicants from foreign countries must fulfill requirements set by the Graduate School including acceptable GRE scores and ability to communicate in written and verbal English (acceptable TOEFL scores).

C.5.b Core Courses
The didactic program of study for both the master’s and doctoral degree in the Clinical and Translational Research track must comply with the MSIA guidelines (see MSIA Procedures document on Graduate Studies website) and the requirements of the UNMC Graduate Studies Bulletin. Core courses that are recommended for completion of a Master’s or Doctoral Degree Program include: (15 credits hours)
PSM 806 Biostatistics I (3 credit hours)
PSM 808 Biostatistics II (3 credit hours)
PSM 820 Epidemiology Theory and Methods (3 credit hours)
PSM 821 Epidemiology, Advanced Methods and Designs (3 credit hours)
PSM 835 Design of Medical Studies (3 credit hours)
C.5.c Elective Courses

Students are required to successfully complete 2 elective courses as recommended by the individual's Advisory or Supervisory Committee in the program of study. Students aiming for doctoral degree would submit a proposal for additional elective courses as appropriate to their area of study and as required by the MSIA Graduate Program and UNMC Graduate Studies. Each candidate's program of study will need to be approved by their respective Graduate Advisory or Supervisory Committee as well as the MSIA and UNMC Graduate Studies. It is the understanding that students applying for either a masters or a doctoral program will have to satisfy existing rules from the Graduate School including, but not limited to, the required minimum number of credit hours and variation in courses (enough 900 numbered courses) devoted to didactic courses. Potential elective courses that students in both the Master’s and Doctoral program may take include, but are not limited to those listed below:

- PSM 825 Health Care Ethics
- PSM 892 Public Health, Environment and Society
- PSM 860 Health Economics
- PSM 998 Chronic Disease Epidemiology
- FMED 807 Qualitative Research in Primary Care
- FMED 808 Quantitative Research in Primary Care
- IMED 810 Developing Clinical Research
- IMED 840 Clinical systems architecture and function
- PEDS 832 Fundamentals of Cell tissue and culture
- PEDS 911 Human genetics and cytogenetics principle
- PEDS 912 Human cytogenetics laboratory
- SURG 850 Readings in Clinical Informatics

C.5.d CTR Seminars and Required NIH Seminar on Responsible Conduct of Research

To fully implement this Clinical and Translational Research track, students will be required to participate in four seminar courses to be implemented by the CCTR.

- CTR 900 Seminar in Clinical and Translational Research Granstmanship I
- CTR 901 Seminar in Clinical and Translational Research Granstmanship II
- CTR 998 Special Topics: Seminar in Multidisciplinary Study Concepts
- CTR 902 Special Topics: Seminar in Multidisciplinary Research Team Approach to Designing Studies

These seminar courses will feature invited speakers to discuss different aspects in conducting multidisciplinary research and will be facilitated by the CCTR Director and Clinical Research Training Program Director. These courses are designed to contain relevant topics that deal with all aspects of conducting multidisciplinary clinical research. Examples of topics to be discussed will include the following: leadership in developing and directing a multidisciplinary team and/or multi-center studies, addressing conflicts within a research team in collaborative studies, ethical issues in conducting multi-center/multi-disciplinary studies, ethics concerning clinical investigation and research integrity, identifying funding sources, developing a budget, impediments and approaches to recruiting minority subjects, other common problems and solutions to
problems in conducting multidisciplinary clinical and translational studies. New courses being developed and made available through the newly formed College of Public Health may also be pertinent to Clinical and Translational Research track students. Students are also required to complete the NIH Seminar on Responsible Conduct of Research Annually given by the Graduate Studies.

C.5.e Research Component and Mentored Independent Studies

Master's level Clinical and Translational Research track students are required to coordinate a research program of study of at least 8 credit hours with their respective Graduate Advisory Committee as a requirement for graduation. Such research program shall be evaluated with a written thesis and oral defense. Individual Advisory Committees will approve the extent of the research proposal that will satisfy existing rules and regulations set by the Graduate School to fulfill requirements for granting graduate degree.

Doctoral level CTR students will perform dissertation quality research approved by their Supervisory Committee as outlined in the MSIA Procedures document and Graduate Studies Bulletin.

C.6 Program Success and Its Evaluation

The Clinical and Translational Research track will undergo the standard evaluation process for all graduate programs of the University of Nebraska Graduate College in conjunction with participation in the MSIA graduate program. The on-going success of the CTR track will be evaluated by the ability to recruit students into the track, the graduation rate, and the number of publications and grants submitted and funded by graduates.

The CCTR Graduate Advisory Committee will also conduct systematic surveys from mentors and students participating in the Clinical and Translational Research track to continuously enhance, modify, or develop courses that are relevant to the needs of the candidates towards becoming independent clinical researchers.

C.7 Accreditation

There is currently no accreditation process for an advanced degree is clinical research. However, all graduate programs including the MSIA graduate program are reviewed during the North Central Accreditation process.

C.8 Needs of Diverse Student Groups

UNMC Graduate Studies of the UN Graduate College is part of a public university committed to providing a quality education to a diverse student body. Discrimination based upon race, color, gender, national origin, age, disability, religious or political beliefs or sexual orientation is not allowed. The Center for Clinical and Translational Research as a part of UNMC fully supports and adheres to this policy. Like UNMC, the center will seek out opportunities to recruit and retain minority applicants.

III EVIDENCE OF NEED
A. Constituency and Community Resources
The Chancellor and administration of UNMC, as well as The Nebraska Medical Center, its primary affiliated hospital, have established a strong commitment in their Strategic Planning cycles over the last 10 years to “become a major research health science center” by improving infrastructure for research, recruiting and retaining highly qualified faculty, and increasing the level of externally funded research. To support this goal, the Chancellor and other senior leaders initiated an ambitious fund-raising campaign. Monies were first raised to build the Lied Transplant Center, which opened in 1998, and provided new research space for oncology and transplantation faculty. With individual, community and state investments, UNMC leadership raised $77 million for a new Research Center of Excellence, the Durham Research Center, which opened in Jan 2004. A second Research Center of Excellence building has broken ground. A new four-story, hospital connector building was just completed in 2005, and construction has begun on a new education building. These buildings support faculty recruitment and expansion of existing research programs. Nebraska’s Tobacco Settlement dollars are distributed to Nebraska universities proportional to their extramural funding, and at UNMC, support strategic recruitment. As a result of this investment, UNMC is growing as a leader in biomedical research, with total annual extramural research funding of $72.5 million. UNMC is the State of Nebraska’s premier medical center, with 3,550 employees involved in research and patient care. The Chancellor’s Leadership Council establishes UNMC’s research focus areas, which include cancer, cardiovascular disease, genetics, innovative biomedical technologies, neurosciences, stem cells and transplantation programs, and bioterrorism preparedness.

A natural extension for sustaining research within UNMC is to provide a training ground for researchers who can identify the most clinically relevant research questions. This includes the ability to understand that disease causation and the maintenance of health are multi-factorial in nature and are best approached with multidisciplinary research competencies. The implementation of a specialization track in Clinical and Translational Research provides an optimal environment for future clinical investigators to flourish. An increase in clinical researchers should benefit the medical community in general.

B. Impact on Existing Academic Community

By definition, as NIH has suggested, such a degree program in clinical research is a requirement for consideration for a Clinical and Translational Research award. There is a shared belief that clinical research training is essential for developing successful clinical and translational research faculty. The implementation of a specialization area in clinical research at UNMC would increase the number of health professionals who consider academic medicine as a viable career. Increased interest in the conduct of clinical research among faculty allows for needed expertise to develop at UNMC. Such expertise increases visibility and desirability by students, patients, and other experts in the medical field.

IV EVIDENCE OF DEMAND

In a recent article by NIH Director Dr. Elias Zerhouni, “as a result of the NIH’s investment in biomedical research, over the past 30 years, we have seen many great advances impacting the health of our nation which have been fostered by the effective translation of scientific advances. However, rising costs for both research and health care mean the NIH must make strategic decisions that maximize the return on its
investment. Because treating end-stage disease is so costly, both personally and financially, learning how to pre-empt illness through molecular knowledge and behavioral interventions is the only viable strategy for maintaining the nation’s health in the coming years”.

In order to speed the scientific discovery and its efficient translation to patient care, the NIH developed the Roadmap for Biomedical Research. An important feature of the Roadmap is the Clinical and Translational Science Awards (CTSA). The program’s goals are to eliminate growing barriers between clinical and basic research, to address the increasing complexities involved in conducting clinical research, and to help institutions nationwide create an academic home for clinical and translational science.

Integral to acquiring a CTSA, is the strong presence of research education, training and career development programs that allow a sustained multidisciplinary forum for clinical researchers to grow and prosper including mentored clinical research through graduate degrees. Although Graduate Studies at UNMC awards graduate degree’s in Public Health, and has awarded both master and doctoral degrees through the Medical Sciences Interdepartmental Area (MSIA) for over 25 years, there is still a gap in clinical and translational research training. The proposed Clinical and Translational Research track will improve on current available education and training in clinical research and will foster multidisciplinary interaction.

Recruits for the Clinical and Translational Research track have been identified and plan to enroll as soon as this track is established. Many have gone to outside institutions in the past or considering graduate degrees in Public Administration as an alternative to obtain clinical and translational research education which was not available until recently.

This application seeks affiliation with the MSIA Graduate Program at UNMC by the Center for Clinical and Translation Research being established to offer a specialized graduate education track in Clinical and Translational Research. This educational goal is directly linked to the overall mission of pursuing CTSA in the coming years and is vital to enhancing and expanding clinical and translational research at UNMC.

V ADEQUACY OF RESOURCES
A. Faculty / Staff

There is a broad cadre of UNMC, UNO, and UNL faculty associated with the CCTR. (Appendix 1) Members of CCTR without graduate faculty appointments but have a strong track record in conducting research and may serve as mentors to future Clinical and Translational Research track students had been asked to apply for graduate faculty appointments. The Graduate Studies website lists all current UNMC Graduate Faculty. The CCTR Advisory Committee will oversee involvement of UNMC graduate faculty in the Clinical and Translational Research track program.

The CCTR has a program coordinator / administrator who will be responsible for the administrative needs of CCTR and the Clinical and Translational Research track involvement with MSIA. Other staff members who are part of the Clinical Research Center and who are now transitioning to the CCTR are in place to provide clinical and administrative help in the conduct of students’ clinical research projects.

The graduate coursework outlined in this application can be covered with current faculty. However, the implementation of the Clinical and Translational Research track will also entail the addition of two seminar courses. There is also interest in developing additional courses in the future. The two seminar courses will be facilitated
by faculty from CCTR and would utilize different invited speakers to discuss topics pertinent to the conduct of clinical research. The creation of newer courses will be accomplished within the first year of program implementation.

C. Physical Facilities
    Poynter Hall will be renovated to provide new space for graduate students in the Clinical and Translational Research track. Including plans for a computer lab with access to statistical and database software, access to research mentors, a clinical research laboratory, and space to learn and practice skills essential to clinical research including informed consent, medical interviewing and other skills. The research space will also include a conference room for seminars including state of the art audiovisual facilities, clinic facility, Dental operatory, research pharmacy, food preparation area, supply storage, lab area, and consultation rooms. Until the renovation is completed, existing computer labs, conference rooms and current CRC space will be used for education.

D. Instructional Equipment
    All classrooms have access to UNMC intranet and internet computer projection by utilizing equipment from Information Technology Services (ITS) AV Services at the UNMC campus. ITS AV Services also provides equipment for distance learning, conference calls and video conferencing when needed.

E. Budget Projections
    The projected cost for implementing the CTR track within MSIA will be covered with existing resources. It is assumed that fellows in training who are admitted will receive a stipend for the year that they complete didactic training, but additional years for research only would be funded through their respective fellowship program. Funding is currently allocated for 3 fellows-in-training level applicants for this purpose. It is also anticipated that the salary of faculty applicants that are accepted to the Clinical and Translational research track will need to demonstrate that they are being released from duties to pursue this training and that their salary would be covered through their department. Funding for graduate student research is likely to come from a variety of sources. Fellow candidates would most likely be funded through existing sources of their research mentor. Faculty candidates may have additional sources of financial support from their respective departments for their research projects. Additionally, applicants may need to submit applications from other funding sources such as NRSAs, or fellow level grants from professional societies. There are also Research Support Funds available from the Clinical Research Center available with an approved application for hospital based costs in support of mentored research. No additional expenditures are needed beyond the renovation already budgeted for Poynter Hall to establish a home for this track as well as other clinical and translational research activities and administration.

    Resources are available to implement the CTR track now in advance of, and independent of, a CTSA grant. Minimal revenue is expected to be generated from the implementation of such an educational program, but productivity from graduates in the form of research grants and publications are expected.
VI SUMMARY OF RESPONSE TO THE MAJOR CRITERIA AND IMPLEMENTATION
TIME LINE FOR THE FIRST FIVE YEARS

The establishment of the Clinical and Translational Research Track within the MSIA graduate program is consistent with UNMC’s strategic goals. The Clinical and Translational Research track will prepare strong, well educated health professionals and scientists who can become UNMC’s primary armamentarium to sustain clinical and translational research in the coming years. The NIH has made it clear that support for such a program is foremost in their plan for maintaining a healthy population. The need and demand for the Clinical and Translational Research track is imperative to UNMC’s continued growth in clinical and translational research. UNMC has adequate faculty and staff resources to implement such a graduate track and continually support its modification over the next few years.

The goal is to implement the Clinical and Translational Research track fall semester of 2007. At least three potential applicants have been identified before any application has been available. Within the first year, the seminar courses will be approved and speakers invited. A core set of CCTR graduate faculty will design the new course that addresses behavioral and intervention study designs. The Clinical and Translational Research track within MSIA will provide an important avenue for essential and overdue clinical research education at UNMC for health professionals interested in academic careers in clinical and translational research.
Appendix 1:
GRADUATE FACULTY MEMBERS OF THE CENTER FOR CLINICAL TRANSLATIONAL RESEARCH

Clinical and Translational Research Graduate Advisory Committee:
Chair: Fausto Loberiza Jr. MD, MS - Associate Professor, COM, Internal Medicine
Careen Barnes MS – Professor, COD
Jennifer Larsen MD – Professor, COM, Internal Medicine
Helen McIlvain PhD – Professor COM, Family Medicine
Ted Mikuls MD, MPH – Associate Professor, COM, Internal Medicine
Lani Zimmerman RN, PhD – Professor, CON

Partial List of Graduate Faculty / Clinical Research Mentors:
Barnes, Caren, COD
Beatty, Mark, COD
Bilek, Laura, COM
Covey, David, COD
Davis, John, COM
Fox, Ira, COM
Gendelman, Howard, COM
Hamel, Frederick, COM
Hinrichs, Steven, COM
Johnson, William, COD
Klassen, Lynell, COM
Klepser, Don, COP
Lane, Pascale, COM
Larsen, Jennifer, COM
LeVan, Trisha, COM
Leuschen, M. Patricia, COM
Loberiza, Fausto, COM
McIlvain, Helen, COM
Mikuls, Ted, COM
Mueller, Keith, COPH
O'Dell, James, COM
Payne, Jeffrey, COD
Reinhardt, Richard, COD
Rennard, Steven, COD
Romberger, Debra, COM
Romero, Jose, COM
Shull, James, COM
Sisson, Joseph, COM
Smith, Shelly, COM
Thiele, Goeffrey, COM
Wyatt, Todd, COM
Yee, Gary, COP
Zimmerman, Lani, CON
Quantitative mentors:
Anderson, James, COPH
Lynch, Jim, COPH
Meza, Jane, COPH
Stoner, Julie, COPH
Sun, Jeff, COPH