February 8, 2019

Sarah C. Mangelsdorf, Ph.D.  
Provost and Vice Chancellor for Academic Affairs  

William Karpus, Ph.D.  
Dean of the Graduate School

Sent electronically

Re: Notice of Intent to Plan for MS in Clinical and Health Informatics

Dear Provost Mangelsdorf and Dean Karpus:

On behalf of the School of Medicine and Public Health, I endorse the notice of intent to plan for a new MS degree in Clinical and Health Informatics. After discussion at the February 6, 2019 meeting of the SMPH Academic Planning Council, APC members unanimously approved the request. The request is attached. Thank you for your consideration. If you require additional information, please do not hesitate to contact my office.

Sincerely,

Robert N. Golden, M.D.
Robert Turell Professor in Medical Leadership
Dean, School of Medicine and Public Health
Vice Chancellor for Medical Affairs, University of Wisconsin-Madison

Copies to:
Beth Burnside, ICTR
Laura Ladick, ICTR
Rob Lemanske, ICTR
Beth Meyerand, ICTR
James Keck, School of Medicine and Public Health
Andrea Poehling, School of Medicine and Public Health
Parmesh Ramanathan, Graduate School
Josh Morrill, Graduate School
Emily Reynolds, Graduate School
Jocelyn Milner, Academic Planning and Institutional Research
Nicole Wiessinger, Academic Planning and Institutional Research
Jeff Russell, Division of Continuing Studies
Marty Gustafson, Division of Continuing Studies
Mary Thompson, Division of Continuing Studies

Attachment: Notice of Intent and letters of support – MS in Clinical and Health Informatics
Notice of Intent
Master of Science in Clinical and Health Informatics

New Major Program
Degree/Plan: Master of Science in Clinical and Health Informatics
Primary Contact: Elizabeth Burnside, Deputy Executive Director of the Institute for Clinical and Translational Research (ICTR) and Associate Dean in the School of Medicine and Public Health
Academic Home: ICTR—UW Institute for Clinical and Translational Research, School of Medicine and Public Health
Delivery: Online Program

Executive Summary
The UW-Madison School of Medicine and Public Health is submitting a Notice of Intent (NOI) to create a new online graduate major entitled Clinical and Health Informatics (C&HI). The major will be housed in the University of Wisconsin Institute for Clinical and Translational Research (ICTR). The program will serve working professionals in the healthcare industry through a fully online curriculum, and seek to become Wisconsin’s first Master’s program accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM). The program collaborators include the School of Medicine and Public Health, College of Engineering, School of Nursing, School of Pharmacy and School of Business. This interdisciplinary approach is essential to providing the expertise from population health, biomedical informatics, industrial systems engineering, nursing, pharmacy, and healthcare operations management needed to provide clinicians, nurses, pharmacists, researchers, administrators and health information technologists the tools and methods to assess the effect of health innovations on policy, clinical practice, security, and biomedical and health information systems.

Importance of Offering
The 2017 Leadership and Workforce study conducted by the research arm of the Healthcare Information and Management Systems Society (HIMSS) found that 61% of healthcare organizations and vendors are expecting to increase hiring in the upcoming few years. Epic, a Wisconsin-based company, now works with over 50 IT vendors seeking healthcare informatics specialists in over 20 states. Additionally, informational technology and healthcare clinical informatics is a growing field with more than 900 job postings in Wisconsin alone looking for a person with 3 to 5 years of clinical experience and a masters in data analytics. Local employers include Deloitte, General Electric, Vital Tech solutions, UW Health and Epic. According to the Department of Labor and Bureau of Labor Statistics, healthcare will produce more new IT jobs through 2020 than any other industry, with a projected increase of 21%

2www.onetonline.org/link/summary/11-3021.00#WagesEmployment
3https://laborinsight.burning-glass.com/jobs/us/#/snapshots/display2018
Because of these growing trends and opportunities in healthcare and informatics, many major universities are creating program offerings and certificates. The University of Illinois at Chicago has recently created a Master of Science in Health Informatics (MSHI) and a Post-Master’s Certificate in Health Informatics (PMC-HI). Other institutions with health informatics programming include University of Cincinnati, Northwestern University-Feinberg School of Medicine, John Hopkins, University of Texas, and the University of Washington School of Nursing and School of Medicine.

Given the growing demand for master’s level training in clinical and health informatics, the University of Wisconsin-Madison will leverage our institution’s cutting-edge work in the School of Medicine and Public health where medical and population health research already have a strong record to inform best practices in the clinical setting. Moreover, ICTR, where this program will be housed, is interdisciplinary (and interdepartmental) by design. ICTR is housed within the School of Medicine and Public Health and partners closely with the Schools of Nursing, Veterinary Medicine, Pharmacy and the College of Engineering. The overarching mission of the clinical health informatics masters is to offer ICTR members and partners throughout the entire institution, as well as external professionals in the region, to translate best practices in applied clinical informatics to improve clinical care. This program is poised to be a leader in clinical and health informatics with a proven record of accelerating research into applied outcomes to improve health in the United States. This program will leverage the expertise of faculty across the university to build upon a growing need to leverage informatics expertise in the healthcare space where evidence-based decision making and data-informed care are essential. Students will leave this program with skills to enhance their professional practices in the clinical healthcare setting and as business and informatics leaders drawing from operational and healthcare management, health informatics, and information technology skills to solve complex problems of the social-behavioral aspects of health. They will contribute to the health of the individual and populations.

The program expects to enroll 100 students (clinicians and healthcare information technology professionals) per year by the fourth year after implementation. Scale is possible with cohorts starting in multiple terms. Students will be able to complete the program in 2-3 years depending upon if they attend full time (2 years) or part time (3 years).

Targeted career paths for graduates include:

- **Chief Medical Information Officer**: Focuses on developing and implementing IT strategies and educating users of clinical information systems. This C-suite administrator executes implementation of a data management and works with evolving array of administrative, financial and management professionals.
- **Chief Nursing Information Officer**: Focuses on the healthcare delivery and outcomes. This role combines clinical nursing skills with technical knowledge to create systems to improve the quality of patient care.
- **Director of Informatics**: Develops financing, implementation and life cycle strategies for integrating information systems while leveraging innovative IT and business models. This role also ensures that information systems protect the security, confidentiality, and integrity of medical records in compliance with regulatory requirements.
- **Director of Clinical Operations**: Focused on the implementation and optimization of information systems, to create needed infrastructure that connects and enables the flow of critical information to and from each of the stakeholders in a patients care planning team it also creates opportunities with hospitals, public health organizations, research laboratories, medical software firms, insurance agencies, pharmaceutical companies and education institutions to use data to inform systems-based solutions.
• Clinical Data Analyst: Use clinical informatics strategies to capture and disseminate patient data to other members of the multidisciplinary healthcare team. This use of informatics has created significant efficiencies in documenting clinical data and outcomes to improve patient care strategies.

• Pharmacy Informatics Specialists: Through optimized healthcare training in clinical informatics Pharmacy Informatics Specialists provides a unique set of skills to communicate, interpret and ensure safe implementation of medical prescriptions across setting and populations.

Recent job titles for careers in clinical healthcare informatics include:

• Medical Informatics Project Director
• Medical Informatics Researcher
• Medical Informatics Systems Analyst
• Director of Clinical Informatics
• Clinical Informatics Specialist
• Clinical Informatics Analyst
• Clinical Informatics Coordinator

Expertise in clinical and health informatics is required in the top tier of job openings that involve electronic health record analysis, database design and clinical operational management, health modeling and health care data security. The market demand according to the Educational Advisory Board Report on Health Professions saw a national demand of over 35,000 job posting in 2016 asking for the informatics skills listed. Moreover, healthcare has even greater data integration, system interoperability, and reporting needs than ever before and healthcare clinical informatics skills are required to demonstrate outcomes for Medicare reimbursement and reform. The need for these skills is driving new online programming across the country. UW-Madison is poised to become a leader in this space for the following reasons. Within the integrated School of Medicine and Public Health, ICTR is the home to the Clinical Health Informatics Institute (CHI²), which is designed to foster applied clinical health informatics activities. ICTR provides links to the Schools of Nursing, Veterinary Medicine, and Pharmacy and the College of Engineering. Within SMPH, there is a strong biostatistics and medical informatics department. The timing is right as health care employers are actively seeking analytics in informaticists with a 37% increase in informatics jobs stipulating data analytics skills from 2013-2016. The overall projected growth in the healthcare analytics market from 2015-2020 is over 11 billion with 4 out 5 hospital systems citing value-base care as a key analytical driver. The need for data skills are increasingly becoming a necessity in the healthcare industry.⁶

**Unique Place within the UW System Graduate Portfolio**

**UW System Programs**

Currently there is just one graduate-level health science related degree and two certificates within the UW System in this domain. These UW System programs serve students interested in learning skills related to IT management within a healthcare setting. UW-Milwaukee offers a Masters in Health Care Informatics and a Certificate in Health Care Informatics. This UW-Milwaukee master’s degree focuses on


the automation of medical data and information and closely aligns with IT network design than clinical healthcare decision-making. Courses are face-to-face and online for working IT professionals. The Certificate in Health Care Informatics is offered as a cooperative program among the College of Health Sciences, the Department of Health informatics Administration, and the School of Information Studies. The certificate allows students to explore the three disciples to build foundational knowledge across fields. According to the program website neither the degree nor the certificate is accredited. Additionally, the University of Wisconsin-Oshkosh offers a Healthcare Informatics Certificate. The program serves healthcare nurses interested in integrating computer science and information science to improve patient outcomes. The program is online with a required clinical practicum. Because the program serves nurses, this certificate allows students to be eligible to take the ANCC Informatics nursing certification exam.

The proposed UW-Madison program will serve a different audience including healthcare professionals with clinical experience interested in managing large healthcare enterprise solutions and implementing system-based solutions to improve patient outcomes. Students will be required to have work experience in clinical healthcare or a degree in a clinical discipline (M.D., R.N., PharmD, etc.) and proficiency with basic statistics. Within the University of Wisconsin-Madison, the School of Medicine and Public Health offers an on-campus full-time M.S. Degree in Biomedical Data Science. The program is research and thesis-based. MS students study methodologies from computer sciences and statistics to contribute to the solutions central to computational problems in biomedicine through building algorithms and coding simulations for population health research, statistical genetics and biomedical informatics.

**UW-Madison Programs**

Within the University of Wisconsin-Madison, the School of Medicine and Public Health offers an on-campus full-time M.S. Degree in Biomedical Data Science. The program prepares graduates to understand key concepts and methodologies from computer sciences and statistics to contribute to the solutions central to computational problems in biomedicine. The program is research and thesis based and is designed for students interested in building algorithms and coding simulations for population health research, statistical genetics and biomedical informatics. Additionally, the on-campus full-time MS in Statistics named option in biostatics at UW-Madison serves students who work in the theory, methodology, and application of statistics. The program focuses primarily on the statistics of biomedical sciences and differs from informatics in that is focused on the computation and mathematical application of how to design experiments and survey samples in the biomedical field. Informatics in contrast is focused on the interaction between humans and information.

The proposed C&HI degree also differs in that will be accredited and all courses will offered online for working healthcare professionals and will be focused primarily on the application and applied tools used in a clinical or healthcare setting. C&HI will not offer a thesis option. The C&HI degree will teach the applied skills needed to translate data science into workable processes at the healthcare system level for leaders and managers to use informatics to solve complex healthcare problems.

The Clinical Health Informatics Institute (CHI²), embedded in the Institute of Clinical Translational Research (ICTR) is working to create new online courses focused more on data-driven medicine and system-based decision making with an informatics focus to serve a new audience. This is part of the School of Medicine and Public Health’s [strategic vision and planning mission](#) to create vital connections between basic discovery and clinical/translational research, and provide programs that support the health and wellness of individuals and populations. The overarching goal for the C&HI masters is to
create strategic programing and research partnerships that improve public health by translating basic research discoveries into direct, practical improvements in clinical care and healthcare delivery systems. This program also supports the UW-Madison campus strategic framework goal to improve access (through online delivery) and “build innovative professional master’s-level degrees and other lifeline learning experiences.”

Curriculum and Learning Outcomes

The program learning outcomes are based on AMIA Health Informatics Core Competencies for CAHIIM Accreditation. This program will seek accreditation to support the mission and vision of next generation of informatics professionals. Accreditation is key differentiator for our program and leverages key expertise across disciplines and expertise across faculty departments to leverage all 10 competencies in one degree program that spans expertise in data management, interprofessional practice, and data design, systems and operational management across healthcare fields.

The program learning outcomes/competencies are:

1. **Health**: The background knowledge of the history, goals, methods and challenges of the major health sciences, including human biology, genomics, clinical and translational science, healthcare delivery, personal health and population health.

2. **Information Science and Technology**: The background knowledge of concepts, terminology, methods and tools of information science and technology for managing and analyzing data, information and knowledge.

3. **Social and Behavioral Science**: The background knowledge of the effects of social, behavioral, legal, psychological, management, cognitive, and economic theories, methods, and models applicable to health informatics from multiple levels including individual, social group, and society.

4. **Health Information Science and Technology**: The knowledge, skills, and attitudes to use concepts and tools for managing and analyzing biomedical and health data, information, and knowledge. Key foci include systems design and development, standards, integration, interoperability, and protection of biomedical and health information.

5. **Human Factors and Socio-technical Systems**: The knowledge, skills and attitudes to apply social behavioral theories and human factors engineering to better understand the interaction between users and information technologies within the organizational, social, and physical contexts of their lives, and apply this understanding in information system design.

6. **Social and Behavioral Aspects of Health**: The knowledge, skills, and attitudes to use social determinants of health and patient-generated data to analyze problems arising from health or disease, to recognize the implications of these problems on daily activities, and to recognize and/or develop practical solutions to managing these problems.

7. **Social, Behavioral, and Information Science and Technology Applied to Health**: The knowledge, skills and attitudes to apply the diverse foundation concepts and facets in order to develop
integrative approaches to the design, implementation, and evaluation of health informatics solutions.

8. **Professionalism:** The conduct that reflects the aims or qualities that characterize a professional person encompassing especially a defined body of knowledge and skills and their lifelong maintenance as well as adherence to an ethical code.

9. **Interprofessional Collaborative Practice:** Behavior that reflects the foundations of values/ethics, roles/responsibilities, interprofessional communication practices, and interprofessional teamwork for team-based practice.

10. **Leadership:** Behavior that demonstrates the following characteristics: credibility, honest, competence, ability to inspire, and ability to formulate and communicate a vision.

This 30-credit master’s degree is designed as a 2 year full-time or 3 year part-time online program for adults working in either clinical healthcare or who have a strong analytical background in science and statistics related to healthcare. The average student will complete the program in 18 months but may take up to three years to complete the program once started. The majority of the courses are currently available and will need to be converted to an online platform to serve this new body of students. There are also several new courses in development.

Core and Elective Courses:

- Health Informatics Systems: Knowledge of Healthcare
- Data Driven Medicine
- Health Communication in the Information Age
- Healthcare Quality Improvements
- Human Factors Engineering Design and Evaluation
- Core Principles of Population Health Sciences
- Healthcare Operations Management
- Organizational Communication for Healthcare Professionals
- Regulatory Practice and Compliance
- Translational and Outcomes Research in Health and Health Care
- Clinical and Health Informatics Capstone

The MS in Clinical and Health Informatics will leverage expertise across several schools and departments across the University of Wisconsin-Madison. The expertise and variety of interdisciplinary coursework will make our program competitive to solve challenging problems in the healthcare arena. The curriculum will center on real world challenges and team-based problem-solving skills to inform evidence-based decision making in a complex electronic health care environment.

**Faculty and Staff**

The core faculty and staff supporting development of this program include:

- Elizabeth Meyerand, Professor School of Medicine and Public Health and Professor of Medical Physics and Co-Director of the Women in Science and Engineering Leadership Institute
- Elizabeth Burnside, Deputy Executive Director of the Institute for Clinical and Translational Research (ICTR) and Associate Dean in the School of Medicine and Public Health
• Enno Seimsen, Associate Dean of the MBA and Master’s Programs, Executive Director of the Erdman Center for Operations and Technology Management
• Jack Temple, Clinical Associate Professor, School of Pharmacy
  Manager, Information Technology and Medication Use Systems, UW Health
• Richard Bruce, Assistant Professor of Neuroradiology, School of Medicine and Public Health
• Maureen Smith, Professor in the Departments of Population Health Sciences, and Family Medicine and Community Health, School of Medicine and Public Health
• Barbara Pinekenstein, Clinical Professor, School of Nursing

The master’s program will be housed within the UW Institute for Clinical and Translational Research (ICTR), administered by the School of Medicine and Public Health (SMPH), and supported by a Board of Governors that includes four additional academic units:

• School of Nursing
• School of Pharmacy
• School of Veterinary Medicine
• College of Engineering

ICTR is designated an administrative body for educational programs under the academic authority of the School of Medicine and Public Health. Program governance includes a faculty executive committee and a curriculum subcommittee. The executive committee, which is led by a faculty chair and includes the ICTR Training Director as a non-voting member, has oversight over the program. The curriculum subcommittee votes on recommendations, which are presented to the executive committee for approval.

A Faculty Director will be hired. Laura Ladick is the Assistant Program Director for Biomedical Informatics and will serve as the Administrative Lead for Student Services and support and coordinate student recruitment efforts. A program director will be hired to facilitate the incorporation and maintenance of existing curricular offerings across schools and colleges; work with Division of Continuing Studies to create a marketing, recruitment, and admission plan; grow academic and business relationships with corporate and government partners that can participate in curriculum design and delivery, participate in projects, and support career development for students; attend professional trade conferences and recruitment-related conferences; monitor program outcomes; and manage appropriate budgets.

Students will be academically advised by faculty and staff members from ICTR and its strong interdisciplinary team approach. Student services will be provided through ICTR. The SMPH is developing a plan so that students will have access to UW-Madison’s Handshake recruitment and career management tool, with additional career counseling services from the Division of Continuing Studies’ Adult Career and Special Student Services for revenue programs until the program revenue will support a focused career counselor.

Funding

This program is expected to be self-funded through tuition revenue within 3 years of implementation. Enrollment will begin with 25 students and increase with additional cohorts of 25 students per year until a goal of 100 students is reached in Year 4 after launch. The program will also request an online per credit tuition tier based on the competitive space for this discipline, which will be decided by the time of the development of the full proposal.
### Table 1: Enrollment and Direct Revenue Projections

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Funding for program development is supported by ICTR, the Division of Continuing Studies, and central campus. Memorandums of Agreement for participating schools and colleges to share tuition revenue with participating departments and instructors will be signed as departments commit. Funding from the Division of Continuing Studies also includes market research and analysis, including a market demand study, competitive survey and plans to build out marketing strategy and execution plans for program launch in fall of 2020. The DCS Recruitment Team will create and implement program-specific recruiting plans, and support development of websites and other communication materials.
Letters of Support
Notice of Intent for MS in Clinical and Health Informatics

Letters of support from the following academic units are attached:

- A request from ICTR to its governing schools/colleges to consider the Notice of Intent. This document indicates the approval dates of various ICTR governance bodies.
- College of Engineering
- College of Letters and Science
- Department of Biostatistics and Medical Informatics (SMPH)
- Department of Computer Sciences (College of Letters and Science)
- Department of Industrial and Systems Engineering (College of Engineering)
- Department of Population Health Sciences (SMPH)
- Department of Statistics (College of Letters and Science)
- MS in Biotechnology Program (SMPH)
- School of Nursing
- School of Pharmacy
- School of Veterinary Medicine
- Wisconsin School of Business
MEMORANDUM

Date: Dec. 18, 2018

To: Dean Scott, School of Nursing
    Dean Swanson, School of Pharmacy
    Dean Richardson, College of Engineering
    Dean Markel, School of Veterinary Medicine
    Dean Golden, School of Medicine and Public Health

From: Graduate Program in Clinical Investigation (GPCI)
      Karen Hansen, MD, MS
      Chair, Executive Committee
      David Rabago, MD
      Chair, Curriculum Subcommittee

Re: Request for approval to advance Notice of Intent for Professional online MS in Clinical and Health Informatics

The Executive Committee governing the Graduate Program in Clinical Investigation requests that the proposed program revisions outlined below, in accordance with the approved process for making changes to these programs; be taken up by each of the APCs of ICTR’s partners as follows: The APC Chair, with appropriate consultation with the full committee, provides written approval of the requested change within 2 weeks or notifies the Chair of the Executive Committee (formerly “Faculty Governance Committee”) that their respective School/College APC will need to vote on the change of their next closest meeting and provide their decision within a week of that meeting.

As a reminder, the Executive Committee governing the Graduate Program in Clinical Investigation is comprised of active and engaged faculty representatives from the five academic partners of ICTR and the Marshfield Clinic.

PROPOSED PROGRAM

A copy of the Notice of Intent to propose an online master’s degree in Clinical and Health Informatics (attached) was approved by the faculty GPCI Executive Committee Dec. 14, 2018, and its Curriculum Subcommittee Nov. 16, 2018. Minutes of those meetings are attached.

Please contact GPCI Administrator Sally Wedde (sally.wedde@wisc.edu) or either of us (keh@medicine.wisc.edu or david.rabago@fammed.wisc.edu) if you have questions.

Thank you.
January 18, 2019

Allan Brasier, Executive Director  
UW Institute for Clinical and Translational Research  
School of Medicine and Public Health  
University of Wisconsin-Madison

Dear Dr. Brasier,

The College of Engineering supports the creation of a new online MS degree program in Clinical and Health Informatics. Our College offers educational and research opportunities for students with interests in health care and we feel that this program complements our offerings. We are pleased to be a part of this program and look forward to contributing to the curriculum.

Sincerely,

[Signature]

James P. Blanchard  
Executive Associate Dean  
blanchard@engr.wisc.edu
5 February 2019

TO: Andrea Poehling, Director, Academic Program Development and Evaluation, SMPH

FROM: John Karl Scholz, Dean

RE: Notice of Intent to Offer a New Program: MS-Clinical and Health Informatics

CC: Elaine Klein, Associate Dean for Academic Planning, L&S
Marty Gustafson, Assistant Dean for Academic Affairs, Continuing Studies
Jocelyn Milner, Vice Provost and Director, Academic Planning and Institutional Research
James Montgomery, Associate Dean for Fiscal Initiatives, L&S
Jennifer Noyes, Associate Dean for Operations and Staff
Parmesh Ramanathan, Associate Dean, Graduate School
Emily Reynolds, Academic Planning Specialist, Graduate School
Eric Wilcots, Deputy Dean, L&S

Thank you for affording the College of Letters & Science an opportunity to review the Notice of Intent to plan and to offer a new online academic program, the MS-Clinical and Health Informatics, at UW-Madison. The council unanimously recommended that L&S endorse this proposal, adding to the support already expressed by our colleagues in the departments of Computer Sciences and Statistics, who are very familiar with the demand for research, scholarship, and applied training in informatics. We agree with your evaluation that, as the program is designed, there should be little crossover with programs and courses offered in L&S. Though our colleagues noted that we are actively working to develop a new undergraduate major in Data Science, that program is envisioned to serve a traditional, residential undergraduate population, which will not compete with the program SMPH proposes to offer – though it might serve students who may someday seek it out.

We wish you all success in the work ahead.
January 18, 2019

Allan Brasier, MD
Executive Director
Institute for Clinical and Translational Research
School of Medicine and Public Health
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide support from the Department of Biostatistics and Medical Informatics (BMI) for this innovative program.

As you know, BMI has a strong and successful history of being a world-leader in applying statistical and informatics methods to solve difficult health-care problems. Our department looks forward to collaborating and contributing as needed for your program’s development. Specifically, we are interested in exploring course offerings to benefit the Clinical and Health Informatics degree program that draw upon the specific research and teaching expertise of BMI’s faculty. In fact, we already have classes that I believe could add significant value to your curriculum.

We understand that BMI faculty may receive funding and instructional design support through the Division of Continuing Studies to participate in this planning effort, and that BMI will receive compensation from program revenue for any teaching done by our faculty in support of the Clinical and Health Informatics degree program.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Michael A. Newton, PhD
Professor and Interim Chair
December 3, 2018

Allan Brasier, Executive Director
UW Institute for Clinical and Translational Research
School of Medicine and Public Health

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. As Chair of the Computer Sciences (CS) Department, I write to express enthusiastic support for the proposed degree. As Professor Tachinardi explained to me, the intention of this degree includes providing a range of different personnel in a health care environment with exposure to and training in basic technological skills. As even a novice can see, technology is becoming pervasive in a health care environment, and its use in transforming the health care environment is only going to increase. It is great to see UW-Madison work towards creating such a degree.

Since there are currently no CS courses involved, there is no additional demand placed on the CS department at this time. That said, the CS department is planning to develop courses, especially as part of a proposed data science major, that may be of relevance as core (technology-related) courses in the proposed degree.

While at this time the CS department does not have the staffing for more closer interactions with SPMH for this, or other curricula that require technological training, I expect that will change in the future. At that time, closer interactions may not only be warranted but also prudent, especially given the rapid change in technology and its impact on organizational structures and operations. I ask that SPMH periodically evaluate this degree and assess potential pedagogical interactions with the computing entities on campus.

Sincerely,

Gurindar S. Sohi
Department Chair
Vilas Research Professor
January 14, 2019

Allan Brasier, Executive Director
UW Institute for Clinical and Translational Research
School of Medicine and Public Health
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide support from the Department of Industrial and Systems Engineering (ISyE) for this innovative program.

As you know, ISyE has a strong and successful history of being a world-leader in applying engineering principles to solve difficult health-care problems. Our department looks forward to collaborating and contributing as needed for your program’s development. Specifically, we would be interested in exploring course offerings to benefit the Clinical and Health Informatics degree program that draw upon our department’s specific research and teaching expertise. In fact, we already have classes that I believe could add significant value to your curriculum.

We understand that our faculty would receive funding and instructional design support through the Division of Continuing Studies to participate in this planning effort, and that any instruction in the future would be compensated through program revenue and a signed Memorandum of Agreement between the School of Medicine and Public Health and the College of Engineering.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Jeff Linderoth
Harvey D. Spangler Professor and Department Chair
Department of Industrial and Systems Engineering
University of Wisconsin-Madison
Monday, December 10, 2018

Allan Brasier, Executive Director
UW Institute for Clinical and Translational Research
School of Medicine and Public Health
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide our support for this innovative program.

We look forward to contributing as needed to the program’s development over the next two years. With your support, we would be interested in exploring course offerings that would benefit the curriculum and call upon the expertise of the Department of Population Health Sciences. We understand that our faculty would receive funding and instructional design support through the Division of Continuing Studies to participate in this planning effort, and that any instruction in the future would be compensated through program revenue and a signed Memorandum of Agreement with the School of Medicine and Public Health.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Maureen Durkin, PhD, DrPH
Evan and Marion Helfaer Professor of Public Health
Chair, Department of Population Health Sciences
University of Wisconsin School of Medicine and Public Health
January 15, 2019

Allan Brasier, Executive Director
UW Institute for Clinical and Translational Research
School of Medicine and Public Health
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide our support for this innovative program.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Jun Zhu, Professor and Chair
Department of Statistics
University of Wisconsin-Madison
January 17, 2019

Allan Brasier, Executive Director
UW Institute for Clinical and Translational Research
School of Medicine and Public Health
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide our support for this innovative program.

The Master of Science in Biotechnology Program, also within the School of Medicine and Public Health, has been an extremely valuable resource for the biotechnology workforce of our state. It is evident that your proposed degree program in Clinical and Health Informatics would fill a similar role in the health care field.

We look forward to supporting your efforts in this exciting new program area, and would look forward to possible collaborations as they arise.

With best wishes for your success,

Kurt J. Zimmerman
Director
Master of Science in Biotechnology Program
School of Medicine and Public Health
University of Wisconsin-Madison
January 7, 2019

Allan Brasier, Executive Director
UW Institute for Clinical and Translational Research
School of Medicine and Public Health
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement. In principle and philosophy, we are pleased to provide our support for this innovative program.

We look forward to contributing as needed to the program’s development over the next two years. With your support, we would be interested in exploring course offerings that would benefit the curriculum and call upon our faculty expertise in health and health care systems leadership and organizational decision-making. We understand that our faculty would receive funding and instructional design support through the Division of Continuing Studies to participate in this planning effort, and that any instruction in the future would be compensated through program revenue and a signed Memorandum of Agreement with the School of Medicine and Public Health.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Linda D. Scott, PhD, RN, NEA-BC, FAAN
Dean and Professor
University of Wisconsin-Madison School of Nursing

Danny G. Willis, DNS, RN, PMHCNS-BC, FAAN
Associate Dean for Academic Affairs
University of Wisconsin-Madison School of Nursing
Allan Brasier, Executive Director  
UW Institute for Clinical and Translational Research  
School of Medicine and Public Health  
University of Wisconsin-Madison

Dear Dr. Brasier:

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide our support for this innovative program.

We look forward to contributing as needed to the program’s development over the next two years. With your support, we would be interested in exploring course offerings that would benefit the curriculum and call upon the expertise of our faculty in pharmacy’s expertise in health system pharmacy data analysis and informatics. We understand that our faculty would receive funding and instructional design support through the Division of Continuing Studies to participate in this planning effort, and that any instruction in the future would be compensated through program revenue and a signed Memorandum of Agreement with the School of Medicine and Public Health.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Steven M. Swanson, PhD  
Dean and Professor
January 10, 2019

Allan Brasier, Executive Director  
UW Institute for Clinical and Translational Research  
School of Medicine and Public Health  
University of Wisconsin-Madison

Dear Dr. Brasier,

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and the UW School of Veterinary Medicine is pleased to provide our support for this innovative program. We believe it would be of great value to some of our students.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Sincerely,

Mark D. Markel, DVM, PhD  
Dean  
Vilas Distinguished Achievement Professor
MEMORANDUM

Date: December 14, 2018

To: Allan Brasier, Executive Director, UW Institute for Clinical and Translational Research, School of Medicine and Public Health, UW-Madison

From: Barry Gerhart, Interim Albert O. Nicholas Dean, Wisconsin School of Business

Re: Support for intent to create online degree program in Clinical and Health Informatics

Thank you for sharing the Notice of Intent to develop a new online, interdisciplinary degree program in Clinical and Health Informatics. This growing field is critically important for health care improvement, and we are pleased to provide our support for this innovative program.

We look forward to discussing how we might contribute to the program’s development over the next two years. With your support, we would be interested in exploring course offerings that would benefit the curriculum and call upon our expertise in health informatics, health operations, and related areas. We understand that our faculty would receive funding and instructional design support through the Division of Continuing Studies to participate in this planning effort, and that any instruction in the future would be compensated through program revenue and a signed Memorandum of Agreement with the School of Medicine and Public Health.

We look forward to supporting your efforts in this exciting new program area with you in the future.

Copies:

Enno Siemsen, Associate Dean of Masters Programs, WSB
Ella Mae Matsumura, Senior Associate Dean of Academic Programs, WSB
Mary Thompson, Division of Continuing Studies