

Request for Graduate Addition, Deletion, or Change of a Certificate

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

NOTE: If proposing a new certificate, please read this first:

www.marshall.edu/graduate/graduatecouncil/certificatespolicy/certificatepolicy.pdf

College: COHP/LCOB

Dept/Division: NA

Contact Person: Nancy Lankton

Phone: 304-696-2656

Name of Certificate: Graduate Certificate in Online Data Analytics in Health Care

Check action requested: Addition Deletion Change

Effective Term/Year Fall 20 Spring 20 Summer 20

Information on the following pages must be completed before signatures are obtained.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head Nancy Lankton Date 12/3/19

College Curriculum Committee Chair [Signature] Date 9 DEC 19

College Dean Avinandan Mukherjee Date 12/9/2019

Graduate Council Chair _____ Date _____

Provost/VP Academic Affairs _____ Date _____

Presidential Approval _____ Date _____

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Please provide a rationale for addition, deletion, change:

See attached.

Please describe any changes in curriculum:

List course number, title, credit hours. Note whether each course is required or optional. Enter NONE if not change.

NONE

1. **ADDITIONAL RESOURCE REQUIREMENTS:** If your program requires additional faculty, equipment or specialized materials to ADD or CHANGE this certificate, attach and estimate of the time and money required to secure these items.
NOTE: Approval of this form does not imply approval for additional resources. Enter NONE if not applicable.

NONE

2. **NON-BUSPLICATION:** If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the request and any response received from them. Enter NONE if not applicable.

NONE

Form updated 10/2011

3. CURRENT CATALOG DESCRIPTION

Insert the Current Catalog Description and page number from the latest catalog for entries you would like to change. (May attach separate page if needed).

See attached.

4. Edits to the Current Description

Attach a PDF copy of the current catalog description prepared in MS WORD with strikethroughs to mark proposed deletions and use the highlight function to indicate proposed new text.

No changes - just move the description to the Lewis College of Business right after HEALTH INFORMATICS, M.S. section.

5. .New Catalog Description

Insert a “clean” copy of your proposed description, i.e., no strikethroughs or highlighting included. This should be what you are proposing for the new d3escription. (May attach a separate page if needed).

No changes - just move the description to the Lewis College of Business right after HEALTH INFORMATICS, M.S. section.

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Please insert in the text box below your change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings).

Department:

Change from College of Health Professions to Lewis College of Business (LCOB)

Name of Certificate:

Graduate Certificate in Online Data Analytics in Health Care

Credit hours:

15 Credit hours

Type of change request:

Change in College offering the certificate program.

Rationale:

The COHP and the LCOB are submitting this change to move the Graduate Certificate in Online Data Analytics in Health Care from the College of Health Professions (COHP) to the Lewis College of Business (LCOB). This change is necessary because Girmay Berhie, the Chairperson of the Health Informatics MS degree and the two graduate certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Murkherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole. The LCOB is teaching three of the five courses in the certificate program. It already has other health care-related programs and has numerous faculty with expertise in the area. The LCOB has helped facilitate a smooth transition of the health Informatics MS program during fall 2019.

Form updated 10/2011

Rationale for Request:

This certificate change form is to change the Graduate Certificate in Online Data Analytics in Health Care from the College of Health Profession (COHP) to the Lewis College of Business (LCOB).

This change is needed because Girmay Berhie, the Chairperson of the Health Informatics MS degree, including the two graduate certificate programs – the online data analytics in health care and the nursing informatics certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Avi Mukherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole, for the following reasons:

1. In Fall 2019, 69% (27 out of 39 total credit hours) of the courses in the Health Informatics MS degree programs are being taught by the LCOB.
2. The LCOB already has degree programs in fields related to Health Informatics. It has an undergraduate degree in Health Care Management, a MS degree in Health Care Administration, and a Doctor of Management Practice in Nurse Anesthesia (DMPNA). Its proposed DBA program will have a concentration in health care management. Additionally, the LCOB's MBA program has a concentration in health care administration.
3. The LCOB has numerous faculty with expertise in health informatics and related areas (see lists below). Dean Avi Mukherjee actively publishes in the health care area.

Faculty teaching health care courses:

- Dr. Alberto Coustasse, Full Professor
- Dr. Doohee Lee, Full Professor
- Dr. Dennis Emmett, Full Professor
- Dr. Kent Willis, Assistant Professor

Faculty teaching management information systems courses:

- Dr. Rick Weible, Full Professor
- Dr. Anil Gurung, Full Professor
- Dr. Dale Shao, Full Professor

Faculty teaching business analytics and legal environment courses:

- Dr. Lanham, Assistant Professor
- Dr. Subedi, Full Professor
- Dr. Zhang, Assistant Professor
- Dr. Fnu, Assistant Professor
- Casey Baker JD, Assistant Professor
- Olen York JD, Instructor

Faculty teaching health care related management and strategy courses in the DMPNA program:

- Dr. McInerney, Full Professor
 - Dr. Emmitt, Full Professor
 - Dr. Lee, Full professor
 - Dr. McClure, Associate Professor
 - Dr. Muslin, Associate Professor
 - Dr. Sollosy, Associate Professor
4. The LCOB was a critical partner in the design, development, and introduction of the MS in Health Informatics program. Faculty from the LCOB designed and taught courses that originally accounted for 31% (12 out of 39) of the degree program.
 5. In response to a request by Dean Michael Prewitt and Provost Jaime Taylor, the LCOB agreed to manage the MS in Health Informatics program starting in Fall 2019. This included recruiting individuals, providing advising support, collecting assessment documentation, and directing accreditation requirements for the program. The investment of LCOB in ensuring a smooth transition without additional resources will benefit the students, Colleges, and University over the long term. The LCOB has met with all students along with Dean Prewitt, and the students are excited about the transition.

6. CURRENT CATALOG DESCRIPTION

Graduate Certificate in Online Data Analytics in Health Care

Data analytics is the process of acquiring, extracting, integrating, transforming, and modeling data with the goal of deriving useful information. Its application is growing rapidly in health care organizations across the globe. Data Analytics in Health Care enables the systematic use of data to drive fact-based decision-making to assist in health care planning, management and measurement. However, many organizations lack the knowledge to effectively utilize data analytics. As a result, according to a survey published by Journal of AHIMA (2015), healthcare big data analytics and informatics skills will be among the most sought-after competencies for health information management (HIM) professionals in the next few years.

The Marshall University Online Data Analytics in Health Care certificate is designed to provide health care professionals with the skills required to compete for data analysis jobs amid rising demand in the health care industry. The certificate program will explore the intricacies of data analytics and expose students to various topics related to data processing, integration, analysis, and visualization. Individuals who complete this program will have a solid framework of data analytics methodologies accompanied by exposure to the tools used for knowledge discovery pertinent to health care.

The certificate is intended for students who are interested in transforming the massive data being produced in the health care industry into meaningful information. They are the individuals who want to determine what decisions or actions should be taken to generate value from the healthcare data produced every day.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for-admission. (Submit all materials to the Graduate Admissions Office.) Students must have an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate university work, and ORE scores from ORE test taken within the past five years.

Program Requirements

Students must take the following courses:

HP 605 EHR & PHR (3 Credit Hours)

HP 610 Health Care Statistics (3 Credit Hours)

HP 630 Research Methods and Data Analytics for Health Informatics (3 Credit Hours)

IS 535 Applied Health Care Databases (3 Credit Hours) OR IS 623 Database Management

IS 545 Health Care Data Analytics and Visualization (3 Credit Hours)

Courses in this certificate program can also be applied to a master's degree in health informatics.