USF
UNIVERSITY OF SOUTH FLORIDA

Graduate Curriculum Approval Form
Changes to Graduate Majors

Degree Program CIP Code   51.2706
Degree (i.e. M.A., Ph.D., etc.):   M.S.
Name of Major (e.g. Biology)   Health Informatics
Name of affected Concentration(s) (e.g. Botany)   Healthcare Analytics
Proposed Effective Term (e.g Fall 2017)   Summer 2018
Faculty Contact   Athanasios Tsalatsanis
Email   Atsalats@Health.Usf.Edu

APPROVALS	Name	Signature	Action	Date
Dept. Chair	Robert Deschenes, Ph.D.	*[signature]*	☒ Approve ☐ Not approved ☐ Comments attached	2/7/18
School Committee Chair (if applicable)	Karl Muffly, Ph.D.	*[signature]*	☒ Approve ☐ Not approved ☐ Comments attached	2/28/18
College Committee Chair	Karl Muffly, Ph.D.	*[signature]*	☒ Approve ☐ Not approved ☐ Comments attached	2/28/18
College Dean/ Associate Dean	Robert Deschenes, Ph.D.	*[signature]*	☒ Approve ☐ Not approved ☐ Comments attached	2/7/18
Concurrence ☒ N/A ☐ Needed	Dept: Chair:		☐ Concurs ☐ Doesn't concur ☐ Comments attached	
Grad Council	☐ Approve ☐ Not approved ☐ Tabled ☐ Comments	Graduate Studies	☐ Approve ☐ Disapprove	

Summary of Changes – Select all that apply:

Admissions Section:

☐ Change Priority Admission Deadlines
    ☐ Fall: _____
    ☐ Spring: _____
    ☐ Summer: _____
    ☐ To "fall admissions only"
☐ From Regular to Direct Receipt Admissions
☐ From Direct Receipt to Regular Admission
☐ Admission Requirements

Curriculum Requirements

☐ Current Curriculum Requirements
    ☐ Core
    ☐ Add New Concentration, Specialization, or Track*
    ☐ Delete Concentration, Specialization, or Track
    ☐ Thesis/Dissertation
    ☐ Comprehensive/Qualifying Exam
☒ Other: Add an elective course and update course numbers in the graduate catalogue

Requires submission to APAC for comment/clearance

Why are these changes necessary?
Add course
Students in the Healthcare Analytics concentration will obtain a general overview of the health informatics field as discussed in the "HIM 6118 Introduction to Health Informatics" core course in the Health Informatics Master's program. This knowledge is important to students as is will help them position analytics in the health informatics field.

Corrections/updates in the catalogue
Replace the following course numbers/titles with the respective state approved numbers:
- Replace HIM 6116 with HIM 6141
- Replace HIM 6200 with HIM 6628
- Replace HIM 6120 with HIM 6623

- Replace HIM 6665 with HIM 6655
- Replace HIM 6810 with HIM 6844
- Replace HIM 6668 with HIM 6686
- Replace HIM 6669 with HIM 6629
- Replace HIM 6670 with HIM 6671
- Replace "HIM 6930 Medical terminology in Health Informatics" with "HIM 6477 Medical Terminology for Health Informatics Professionals"

Attach the current Catalog Copy, with the requested revisions shown using Track Changes. Catalog copy is not required for changes to the Admission Deadline. All other changes require Catalog Copy. To obtain the most current catalog, email cdh@usf.edu.

Once College has approved, scan and email this Approval Form, and the revised Catalog Copy **in Word** to Graduate Studies by the deadline posted online http://www.grad.usf.edu/graduate-council.php . For questions, contact cdh@usf.edu

HEALTH INFORMATICS

Master of Science in Health Informatics (M.S.H.I.) Degree

DEGREE INFORMATION

Priority Admission Application Deadlines:
Fall: February 15
Spring: October 15
Summer: February 15

Minimum Total Hours: 32
Level: Masters
CIP Code: 51.2706
Dept Code: MED
Major/College Codes: HIF/MD
Approved: 2013

Concentrations:
Healthcare Analytics (BHAP)

CONTACT INFORMATION

College: Medicine

Contact Information: www.grad.usf.edu

MAJOR INFORMATION

The Master of Science in Health Informatics degree offers a curriculum that integrates the domains of information science, information resources management and health care organization and management.

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- $65 non-refundable application fee
  The breakdown of this fee is as follows:
    o $30.00 USF's Application Fee
    o $35.00 Transcript Procurement Fee

- A bachelor's degree from a regionally-accredited university in the biological, chemical, computer or management information sciences or other appropriate field, or the equivalent bachelors and/or graduate degrees from a foreign institution.
- Minimum overall grade-point average of 3.00 out of a possible 4.00 with a minimum grade point average of 3.00 in the sciences
- Transcripts from all colleges and universities attended
- Resume
- Two Letters of Recommendation
- While these are not required, GRE, MCAT or VAT standardized test scores or evidence of substantial health informatics experience can be submitted to enhance an application.
- An example is if a student has a GPA below 3.00 and wishes to prove he will be a positive addition to the school.

Note: F-1 student visa regulations allow students to enroll in only one 3-credit hour online/distance learning course per the official full-time equivalent for the degree level of study. Therefore, the F-1 visa is not appropriate for any major that is offered completing via distance learning or online courses. International students may pursue an online major from outside the US, in which case an I-20 is not required.

Healthcare Analytics Concentration (15 hours):

HIM 6116 6141	Introduction to Healthcare Analytics	3
HIM 6200 6628	Health Data Visualization	3
HIM 6120 6623	Statistics for Healthcare Analytics	3
HIM 6665 6655	Healthcare Data Mining and Predictive Analytics	3
HIM 6810 6844	Health Outcomes Research	3

Electives   **6 hours**

General Pathway Electives (6 hours)

Two or more required:

HIM 6137	Pharmacy Informatics	3
HIM 6943	Health Informatics Internship	3
HIM 6908	Health Informatics Independent Study	3
MHS 6645	Mental Health Informatics	3
PHC 6934	Selected Topics in Public Health: Medical Terminology	3
ISM 6930	Selected Topics in MIS: Health Systems Analysis & Design	3
ISM 6930	Selected Topics in MIS: Health Data Mining	3
PHC 6050	Biostatistics I	3
BCH 6888	Bioinformatics	3

Concentration Electives (6 hours)

Two or more required:

HIM 6668 6686	Healthcare Decision Support	3
HIM 6669 6629	Applied Healthcare Analytics	3
HIM 6908	Health Informatics Independent Study	3
HIM 6670 6671	Advanced Healthcare Analytics Applications	3
HIM 6943	Health Informatics Internship	3
HIM 6930	Medical Terminology in Health Informatics	3
HIM 6118	Introduction to Health Informatics	3
HIM 6477	Medical Terminology for Health Informatics Professionals	3

Comprehensive Exam

Internship Project
For students who select the Internship option, each student will be assigned a faculty director who will oversee the internship project. Students will formally present their projects which will be shared with all major participants. A minimum of thirty-two (32) semester hours are required and entail a minimum of 480 contact hours

COURSES
See http://ugs.usf.edu/course-inventory

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☐ From Direct Receipt to Regular Admission

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☒ Other: Add and delete electives in the Health Informatics Master's program, update and correct errors in the graduate catalogue

*Requires submission to APAC for comment/clearance

Why are these changes necessary?
Add electives
Students in Health Informatics will obtain a specialized overview of the healthcare analytics field and learn how Health Informatics can support Healthcare Decisions and drive Health Outcomes research as discussed in the "**HIM 6141 Introduction to Healthcare Analytics**", "**HIM 6686 Healthcare Decision Support**", and "**HIM 6810 Health Outcomes Research**" courses offered in the Healthcare Analytics concentration of the Health Informatics Master's program.

Delete electives
The following courses have been replaced by or combined with other courses in the program:
- MSH 6645 Mental Health Informatics

- PCH 6934 Selected Topics in Public Health: Medical Terminology
- ISM 6930 Selected Topics in MIS: Health Systems Analysis & Design
- ISM 6930 Selected Topics in MIS: Health Data Mining
- PCH 6050 Biostatistics I
- BCH 6888 Bioinformatics

Update and correct errors in the graduate catalogue

The following courses are offered as part of the Health Informatics Master's degree but they are not shown in the graduate catalogue:

- HIM 6664 Healthcare Project Management
- HIM 6477 Medical Terminology for Health Informatics Professionals
- HIM 6930 Selected Topics in Health Informatics

Other minor corrections include:

- Delete the heading "Comprehensive Exam"
- Replace ISM 6930 with HIM 6930

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~~PHC 6050~~	~~Biostatistics I~~	3
~~BCH 6888~~	~~Bioinformatics~~	3
HIM 6141	Introduction to Healthcare Analytics	3
HIM 6686	Healthcare Decision Support	3
HIM 6844	Health Outcomes Research	3
HIM 6664	Healthcare Project Management	3
HIM 6477	Medical Terminology for Health Informatics Professionals	3

Concentration Electives (6 hours)

Two or more required:

HIM 6668	Healthcare Decision Support	3
HIM 6669	Applied Healthcare Analytics	3
HIM 6908	Health Informatics Independent Study	3
HIM 6670	Advanced Healthcare Analytics Applications	3
HIM 6943	Health Informatics Internship	3
HIM 6930	Medical Terminology in Health Informatics	3

~~Comprehensive Exam~~

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