PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF HUMAN MEDICINE

1. Request to change the requirements for the Graduate Certificate in Leadership in Medicine for the Underserved in the College of Human Medicine. The University Committee on Graduate Studies (UCGS) will consider this request at its October 10, 2019 meeting.

The Graduate Certificate in Leadership in Medicine for the Underserved is a Type 2 graduate certificate and will appear on the transcript as “Graduate Certificate Program in Leadership in Medicine for the Underserved”.

a. Under the heading Requirements for the Graduate Certificate in Leadership in Medicine for the Underserved replace the entire entry with the following:

Students must successfully complete the following:

1. Participation in 100 hours of didactic/experiential learning in leadership in medicine for the underserved.
2. Participation in 100 self-directed volunteer or clinical service hours approved by the leadership in medicine for the underserved director.
3. Completion of the following courses (12 credits):
   - HM 629 Leadership in Medicine for the Underserved Community Elective 6
   - HM 631 Leadership in Medicine for Underserved Urban or Global Elective 6
4. Successful completion of assigned projects and presentations.

Effective Spring 2020.

2. Request to change the requirements for the Graduate Certificate in Medical Partners in Public Health in the College of Human Medicine. The University Committee on Graduate Studies (UCGS) will consider this request at its October 10, 2019 meeting.

The Graduate Certificate in Medical Partners in Public Health is a Type 2 graduate certificate and will appear on the transcript as “Graduate Certificate Program in Medical Partners in Public Health”.

a. Under the heading Requirements for the Graduate Certificate in Medical Partners in Public Health replace the entire entry with the following:

Students must successfully complete the following:

1. Participation in 100 hours of medical partners in public health didactic/experiential learning.
2. Participation in 100 self-directed volunteer or clinical service hours approved by the medical partners in public health director.
3. Completion of the following courses (12 credits):
   - HM 622 Medical Partners in Public Health Community Resources and Wellness Programs 6
   - HM 623 Medical Partners in Public Health Capstone Project Elective 6
4. Successful completion of assigned projects and presentations.

Effective Spring 2020.
3. Request to change the requirements for the **Graduate Certificate** in **Leadership in Rural Medicine** in the College of Human Medicine. The University Committee on Graduate Studies (UCGS) will consider this request at its October 10, 2019 meeting.

*The Graduate Certificate in Leadership in Rural Medicine is a Type 2 graduate certificate and will appear on the transcript as “Graduate Certificate Program in Leadership in Rural Medicine”.*

a. Under the heading **Requirements for the Graduate Certificate in Leadership in Rural Medicine** replace the entire entry with the following:

<table>
<thead>
<tr>
<th>CREDITS</th>
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<tbody>
<tr>
<td>Students must successfully complete the following:</td>
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<tr>
<td>1. Participation in 100 hours of leadership in rural medicine didactic/experiential learning.</td>
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<tr>
<td>2. Participation in 100 self-directed volunteer or clinical service hours in a rural community as approved by the leadership in rural medicine director.</td>
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<td>3. Completion of the two of the following courses (12 credits):</td>
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<tr>
<td>FM 616 Rural Family Practice Elective 6</td>
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<tr>
<td>HM 632 Rural Community Health 6</td>
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<tr>
<td>HM 633 Advanced Rural Community Health 6</td>
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<tr>
<td>4. Successful completion of the Rural Community Health Program Portfolio or the Rural Physician Community assignment and presentation.</td>
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</tbody>
</table>

Effective Spring 2020.
PART II - NEW COURSES AND CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

FW 446  Innovations for Conservation
Spring of every year. 4(4-0) P: WRA 101 R: Open to sophomores or juniors or seniors.
Effective Fall 2019

COLLEGE OF ENGINEERING

CE 485  Landfill Design
Spring of every year. 3(3-0) Interdepartmental with Environmental Engineering. P: ENE 280 and CE 312
REINSTATED  Geotechnical and environmental design of solid waste landfills.
Effective Spring 2020

COLLEGE OF HUMAN MEDICINE

EM 631  Clinical Experience in Emergency Medicine
Fall of every year. Spring of every year. Summer of every year. 3 credits to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. P: (HM 556) or (FM 608 and MED 608 and PHS 600 and PSC 608 and OGR 608 and SUR 608) R: Open to graduate-professional students in the College of Human Medicine.
Two-week elective in clinical diagnosis and treatment of the undifferentiated patient in the emergency department setting. Intended for students not planning to apply to an Emergency Medicine Residency. 2 or 4 week elective in clinical diagnosis of the undifferentiated patient in the emergency department setting. Students applying in EM and planning to request a Standardized Letter of Evaluation should take EM 632.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 2019 Effective Summer 2020

EM 633  Emergency Medicine Sub-Specialty Clinical Elective
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.
NEW  2 or 4 week elective in the care of patients with emergent conditions and focusing on one or more EM sub-specialty domains: toxicology, point-of-care ultrasound, pediatric medicine, wilderness medicine among others. Students will work directly with attending physicians and/or residents.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 2019

EPI 495  Epidemiology and Behavioral Health in Society
Summer of every year. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to juniors or seniors or graduate students.
Introduction to epidemiology as applied to behavioral health issues in contemporary society. Life-span developmental perspective from preterm births to late life Alzheimer’s disease and the dementias. Offered first half of semester.
Effective Summer 2014 Effective Summer 2019
HM 612  Pain Medicine
Fall of every year. Spring of every year. Summer of every year. 6(6-0) 3 to 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open to students in the College of Human Medicine.

Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

Effective Summer 2016 Effective Fall 2019

HM 622  Practical Application of Public Health Principles – Planning a Community Project
Medical Partners in Public Health Community Resources and Wellness Programs
Fall of every year. Spring of every year. Summer of every year. 6(6-0) 3 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: HM 823 P: HM 556 R: Approval of college.

Research and planning for a group community project. Practical application of public health principles including epidemiology, biostatistics, health and public policy, public health administration structure and function, health behavior, health education, environmental health and community assessment. Systematic exploration of community resources culminating in information for a group Community Health Assessment. Construction and implementation of evidence-based and feasible community programming.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

Effective Summer 2015 Effective Summer 2019

HM 623  Practical Application of Public Health Principles – Implementing a Community Project
Medical Partners in Public Health Capstone Project Elective
Fall of every year. Spring of every year. Summer of every year. 6(6-0) 3 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: HM 622 P: HM 556 RB: Completion of 6 credits of HM 622 Medical Partners in Public Health Community Resources and Wellness Programs. R: Approval of college.

Implementation, analysis, and documentation of group community project planned in HM 622 – Capstone project. Practical application of public health principles, epidemiology, biostatistics, health and public policy, public health administration, health behavior, health education, and environmental health.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

Effective Summer 2015 Effective Summer 2019
HM 629  Leadership in Medicine for Underserved or Vulnerable Communities
Leadership in Medicine for the Underserved Community Elective
Fall of every year. Spring of every year. Summer of every year. 6 credits. 3 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: PHD 600 and MED 608 and EM 608 and PSC 608 and OGR 608 and SUR 608 P: HM 556 R: Open to graduate-professional students in the College of Human Medicine. Approval of college. P: HM 556 R: Approval of college.
Issues involved in securing access to medical care and community resources for families in medically underserved communities. Culturally appropriate, patient centered, and community-based experience working with urban underserved populations.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
SA: MED 629
Effective Fall 2014 Effective Summer 2019

HM 631  Advanced Leadership in Medicine for Underserved or Vulnerable Communities
Leadership in Medicine for Underserved Urban or Global Elective
Fall of every year. Spring of every year. Summer of every year. 6 credits. 3 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: HM 629 P: HM 556 RB: Completion of at least 3 credits of HM 629 are recommended prior to HM 631, but this is not required. R: Open to graduate-professional students in the College of Human Medicine. Approval of college. R: Approval of college.
Continuation of HM 629. Medical care of an underserved or vulnerable population in a rural, urban, or international setting. Development of abilities to intervene in the public health issues of this population. Patient centered and community-based experience working with an urban underserved population and/or an international underserved population.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
SA: MED 631
Effective Summer 2011 Effective Summer 2019

HM 632  Rural Community Health
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. A student may earn a maximum of 12 credits in all enrollments for this course. P: HM 556 RB: Completion of preclinical requirements for the Leadership in Rural Medicine Certificate. R: Approval of college.
Patient centered and community based experience in rural medicine and rural medical health systems.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Summer 2018 Effective Summer 2019

HM 633  Advanced Rural Community Health
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. A student may earn a maximum of 12 credits in all enrollments for this course. P: HM 556 RB: Completion of preclinical requirements for the Leadership in Rural Medicine Certificate. RB: Completion of at least 3 credits of HM 632 or FM 616. R: Approval of college.
Advanced clinical skills, knowledge, and experience in rural patient medicine, rural community medicine, and rural medical health systems.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Summer 2018 Effective Summer 2019
HM 822  Introduction to Core Disciplines of Public Health for Medical Students  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) RB: Medical students with interest in public health R: Open to students in the Human Medicine Major or approval of college.  
Introduction to philosophy and concepts of discipline of public health and its relationship to clinical medicine. History and development of the profession; ethical, legal and political considerations.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.  
DELETE COURSE  
Effective Summer 2019

HM 823  Medical Partners in Public Health: Special Seminars  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 822 RB: Medical students with interest in public health R: Open to students in the Human Medicine Major or approval of college.  
Analysis, discussion, and application of key public health competencies in the community setting.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.  
DELETE COURSE  
Effective Summer 2019

HM 892  Public Health Applied Practice Experience  
Fall of every year. Spring of every year. Summer of every year. 1 to 8 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P: HM 801 and HM 891 RB: Academic or professional background in public health or public health-related discipline, undergraduate level math or statistics course work. R: Approval of college.  
Professional practicum.  
Request the use of the Pass-No Grade (P-N) system.  
Effective Summer 2019

MED 634  Advanced Internal Medicine: Intensive Care Medicine/Critical Care  
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. P: MED 608 or MED 641 RB: HM 556 or MED 608 R: Open to graduate-professional students in the College of Human Medicine.  
Experience in managing critically ill patients.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.  
Effective Fall 2018 Effective Summer 2019

ANTR 880  Advanced Human Gross Anatomy for Education or Research  
Fall of even years. 5(4-1) R: Approval of department.  
NEW  
Survey of human gross anatomy using prosections, medical imaging, and multimedia resources designed to prepare students for careers in human anatomy instruction or research.  
Effective Summer 2019
PART II - NEW COURSES AND CHANGES – continued - 7
October 10, 2019

COLLEGE OF NATURAL SCIENCE

GLG 435  Geomicrobiology
Fall of every year. Spring of every year. 4(3-2) Interdepartmental with Microbiology and Molecular Genetics. RB: GLG 201 or MMG 201 or BS 161 or LB 145 R: Open to juniors or seniors or graduate students in the College of Natural Science or in the Lyman Briggs College.
Geological and microbiological perspectives on microbial activities in diverse environmental settings, including geological change mediated by microorganisms, microbial evolution driven by geologically diverse habitats, including the evolution of life on Earth, the search for life on other planets, the study of life in extreme environments, and industrial applications of geomicrobiology.
Effective Fall 2017 Effective Fall 2019

IBIO 358  Streams to Gulf: Environmental change in America's Deep South
Summer of every year. 3(3-0) Interdepartmental with Fisheries and Wildlife and Plant Biology. P: IBIO 355 RB: IBIO 357 R: Approval of department; application required.
A study away course focusing on anthropogenic impacts, habitat alteration, and environmental policy in a global biodiversity hotspot. The course will focus on issues surrounding water, journeying from headwater stream sites through mainstem rivers, eventually reaching the Gulf of Mexico.
Effective Spring 2020

MTH 132  Calculus I
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: (MTH 103 and MTH 114) or (MTH 116 or designated score on Mathematics Placement test) P: (MTH 116) or (MTH 103 and MTH 114) or (MTH 103B and MTH 114) or LB 117 or Designated score on Mathematics Placement test
Limits, continuous functions, derivatives and their applications. Integrals and the fundamental theorem of calculus.
Effective Fall 2013 Effective Summer 2019

PHY 321  Classical Mechanics I
Fall of every year. Spring of every year. 3(3-0) P: (PHY 215 or concurrently) or (PHY 215B or concurrently) and (MTH 235 or concurrently) or (MTH 340 or concurrently) or (MTH 347H or concurrently) P: (PHY 215 or concurrently) or (PHY 215B or concurrently) or (MTH 235 or concurrently) or (MTH 340 or concurrently) or (MTH 347H or concurrently) and CMSE 201
Effective Spring 2017 Effective Spring 2020

PHY 862  Accelerator Systems
Fall of every year. 2(2-0) 3(3-0) RB: PHY 422 and PHY 482 R: Open to graduate students in the College of Engineering or in the College of Natural Science.
Introduction to large accelerator systems, including the physics and engineering of accelerators and key components of accelerators.
Effective Fall 2018 Effective Fall 2019

COLLEGE OF OSTEOPATHIC MEDICINE

OST 597  Biomedical Research Structure and Methods
Spring of every year. 2(2-0) P: OST 598
NEW  Intensive review of biomedical research methods and statistical analyses to prepare students for mentored clinical research projects.
Request the use of the Pass-No Grade (P-N) system.
Effective Spring 2020