PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF ENGINEERING

1. Request to change the requirements in the Bachelor of Science degree in Civil Engineering in the Department of Civil and Environmental Engineering.

a. Under the heading Requirements for the Bachelor of Science Degree in Civil Engineering make the following changes:

(1) In item 3. a. delete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 271</td>
<td>Introduction to Civil and Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CE 272</td>
<td>Civil and Environmental Engineering Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Add the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 273</td>
<td>Civil and Environmental Engineering Measurements</td>
<td>2</td>
</tr>
<tr>
<td>CE 274</td>
<td>Graphics for Civil and Environmental Engineers</td>
<td>1</td>
</tr>
<tr>
<td>CE 371</td>
<td>Sustainable Civil Environmental Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>CE 372</td>
<td>Risk Analysis in Civil and Environmental Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

(2) In item 3. a. change the total credits from ‘42’ to ‘43’.

(3) Replace item 3. d. with the following:

Technical electives. Complete 18 credits of electives from the list below. At least four courses, totaling a minimum of 12 credits, must be from at least four different areas (environmental, geotechnical, pavements, structures, transportation, and water resources). Additional credits to meet the 18 credit requirement may be taken from the list of courses below, which includes courses in construction management.

Environmental

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENE 481</td>
<td>Environmental Chemistry: Equilibrium Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ENE 483</td>
<td>Water and Wastewater Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENE 487</td>
<td>Microbiology for Environmental Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENE 489</td>
<td>Air Pollution: Science and Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Geotechnical

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 418</td>
<td>Geotechnical Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Pavements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 431</td>
<td>Pavement Design and Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 831</td>
<td>Advanced Concrete Pavement Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 832</td>
<td>Advanced Asphalt Pavement Analysis and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Structures

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 405</td>
<td>Design of Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>CE 406</td>
<td>Design of Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CE 805</td>
<td>Advanced Design of Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>CE 806</td>
<td>Advanced Structural Concrete Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Transportation

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 444</td>
<td>Principles of Traffic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 448</td>
<td>Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>CE 449</td>
<td>Highway Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Water Resources

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENE 421</td>
<td>Engineering Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>ENE 422</td>
<td>Applied Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>ENE 822</td>
<td>Groundwater Modeling</td>
<td>3</td>
</tr>
</tbody>
</table>

The additional six credits may include courses from the construction management program courses below or from the above list.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 471</td>
<td>Construction Engineering-Equipment, Methods and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>
2. Request to change the requirements in the Bachelor of Science degree in Environmental Engineering in the Department of Civil and Environmental Engineering.

   a. Under the heading Requirements for the Bachelor of Science Degree in Environmental Engineering make the following changes:

      (1) In item 3. a. delete the following courses:

              CE  271  Introduction to Civil and Environmental Engineering  4
              CE  272  Civil and Environmental Engineering Analysis  3

      Add the following courses:

              CE  273  Civil and Environmental Engineering Measurements  2
              CE  274  Graphics for Civil and Environmental Engineers  1
              CE  371  Sustainable Civil Environmental Engineering Systems  3
              CE  372  Risk Analysis in Civil and Environmental Engineering  2
              ENE 422  Applied Hydraulics  3

      (2) In item 3. a. change the total credits from ‘47’ to ‘51’.

      (3) Replace item 3. e. with the following:

          Technical electives. Complete at least three courses for a minimum of 9 credits of electives from the list below or by approval of the department. Students may substitute a 3-credit experiential education experience for one of the three courses. The experience is obtained in a minimum of three out-of-classroom experiences through engineering cooperative education. Students must contact the department for approval.

              ANS  427  Environmental Toxicology and Society  3
              BE  469  Sustainable Bioenergy Systems  3
              BE  482  Diffuse-Source Pollution Engineering  3
              CSS  455  Environmental Pollutants in Soil and Water  3
              CSUS  320  Environmental Planning and Management  3
              CSUS  425  Environmental Impact Assessment  3
              FW  414  Aquatic Ecosystem Management  3
              FW  417  Wetland Ecology and Management  3
              FW  420  Stream Ecology  3
              FW  443  Restoration Ecology  3
              FW  472  Limnology  3
              GLG  411  Hydrogeology  3
              GLG  412  Glacial Geology and the Record of Climate Change  3
              GLG  421  Environmental Geochemistry  4
              IBIO  303  Oceanography  4
              IBIO  353  Marine Biology (W)  4
              IBIO  355  Ecology  3
              IBIO  446  Environmental Issues and Public Policy  3
              ISS  310  People and Environment (I)  4

Effectively Fall 2016.
COLLEGE OF HUMAN MEDICINE

1. Request to change the requirements for the Graduate Certificate in Counterfeit Pharmaceuticals in the College of Human Medicine. The University Committee on Graduate Studies (UCGS) will consider this request at its October 5, 2015 meeting.

The Graduate Certificate in Counterfeit Pharmaceuticals is a Type 2 graduate certificate and will appear on the transcript as “Graduate Certificate Program in Counterfeit Pharmaceuticals”.

a. Under the heading Requirements for the Graduate Certificate in Counterfeit Pharmaceuticals make the following changes:

(1) Change the total credits from ‘15’ to ‘12’.

(2) Delete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM 875</td>
<td>Applications of Open Source Information in Public Health Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>VM 813</td>
<td>Special Studies in Food Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

Add the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM 840</td>
<td>Anti-Counterfeit Strategy and Product Protection</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Spring 2016.

2. Request to change the requirements for the Master of Science degree in Biostatistics in the Department of Epidemiology and Biostatistics. The University Committee on Graduate Studies (UCGS) will review this request at its October 5, 2015 meeting.

a. Under the heading Requirements for the Master of Science degree in Biostatistics make the following changes:

(1) In the entry paragraph, replace the first sentence with the following:

The program is available under either Plan A (with thesis) or Plan B (without thesis).

(2) Change item 5. read ‘Elective courses selected from the following (Plan A, 16 credits) or (Plan B, 20 credits):’

(3) Change item 5. a. to read ‘At least 13 credits (Plan A) or 17 credits (Plan B) from the following biostatistics, statistics, and econometrics courses’.

(4) Replace item 6. with the following:

Additional Requirements for Plan A
1. The following course (4 credits):
   EPI 899 Master’s Thesis Research

Additional Requirements for Plan B
1. Completion of a final oral examination or evaluation.

Effective Spring 2016.
3. Request to change the requirements for the Master of Science degree in Epidemiology in the Department of Epidemiology and Biostatistics. The University Committee on Graduate Studies (UCGS) will review this request at its October 5, 2015 meeting.

   a. Under the heading Requirements for the Master of Science degree in Epidemiology make the following changes:

   (1) In item 1. change delete the following course:
   
   EPI 813 Investigation of Disease Outbreaks 3

   Add the following course:
   
   EPI 836 Practicum in Epidemiological Methods 3

   Effective Spring 2016.

COLLEGE OF NATURAL SCIENCE

1. Request to change the requirements for the Bachelor of Science degree in Biomedical Laboratory Science in the Biomedical Laboratory Diagnostics Program.

   a. Under the heading Requirements for the Bachelor of Science Degree in Biomedical Laboratory Science make the following changes:

   (1) In item 3. a. change the total credits from '43 to 48' to '43 to 46'.

   (2) In item 3. a. (5) change the total credits from '4 or 6' to '4'.

   (3) In item 3. a. (5) (c) change the credits of PSL 431 and 432 from '3' to '4'.

   (4) In item 3. b. change the total credits from '31' to '30'. and delete the following course:

   BLD 435 Transfusion and Transplantation Medicine 3

   Add the following course:

   BLD 435 Transfusion Medicine 2

   Effective Fall 2016.
2. Request to change the requirements for the Bachelor of Science degree in Clinical Laboratory Science in the Biomedical Laboratory Diagnostics Program.

   a. Under the heading Requirements for the Bachelor of Science Degree in Clinical Laboratory Science make the following changes:

   (1) In item 4. a. change the total credits from ‘48 to 50’ to ‘48 to 51’.

   (2) In item 4. a. (5) change the total credits from ‘4 or 6’ to ‘4’.

   (3) In item 4. a. (5) (c) change the credits of PSL 431 and 432 from ‘3’ to ‘4’.

   (4) In item 4. b. change the total credits from ‘53’ to ‘52’. and delete the following course:

   BLD 435 Transfusion and Transplantation Medicine 3

   Add the following course:

   BLD 435 Transfusion Medicine 2

   Effective Fall 2016.

COLLEGE OF OSTEOPATHIC MEDICINE

1. Request to change the requirements for the Master of Science degree in Pharmacology and Toxicology in the Department of Pharmacology and Toxicology. The University Committee on Graduate Studies (UCGS) will consider this request at its October 5, 2015 meeting.

   a. Under the heading Requirements for the Master of Science Degree in Pharmacology and Toxicology make the following changes:

   (1) In the Pharmacology concentration move PHM 813 from item 2. to item 1.

   Effective Spring 2016.
PART II - NEW COURSES AND CHANGES

COLLEGE OF ENGINEERING

CE 271  Introduction to Civil and Environmental Engineering
Fall of every year. Spring of every year. 4(3-3) P: (MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)
   Measurement, analysis and design with applications in civil engineering. Surveying and error analysis.
DELETE COURSE
Effective Fall 2016

CE 272  Civil and Environmental Engineering Analysis
Fall of every year. Spring of every year. 3(3-0) Interdepartmental with Environmental Engineering.
P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (CE 271 or concurrently)
   Basic operations in AutoCAD. Selected applications of probability and statistics to topics in civil and environmental engineering. Applications of engineering economics including interest, net present worth, benefit-cost analysis, comparison of economic alternatives, and life-cycle costing.
DELETE COURSE
Effective Fall 2016

CE 273  Civil and Environmental Engineering (CEE) Measurements
Fall of every year. Spring of every year. 2(1-3) P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (EGR 102 or concurrently)
NEW
   Measurements, surveying and error analysis with applications to civil and environmental engineering problems
Effective Spring 2016

CE 274  Graphics for Civil and Environmental Engineers
Fall of every year. Spring of every year. 1(1-3) P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (EGR 100 or concurrently)
NEW
   Basic operations in CAD software with applications in civil and environmental engineering
Effective Spring 2016

CE 305  Introduction to Structural Analysis
Fall of every year. Spring of every year. 3(3-0) P: ME 222 and (CE 271 or concurrently) and (CE 272 or concurrently) P: ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently) R:
   Open to juniors or seniors in the Department of Civil and Environmental Engineering.
   Effective Fall 2013 Effective Fall 2016

CE 312  Soil Mechanics
Fall of every year. Spring of every year. 4(3-3) P: (ME 222 and (CE 271 or concurrently)) and (CE 272 or concurrently) P: ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently) R:
   Open to juniors or seniors in the Department of Civil and Environmental Engineering and open to juniors or seniors in the Biosystems Engineering major.
   Effective Fall 2013 Effective Spring 2016
CE 321  Introduction to Fluid Mechanics  
Fall of every year. Spring of every year. 4(3-2) P: (MTH 234 or MTH 254H or LB 220) and CE 221 and (((BE 230 or concurrently) or (CE 271 or concurrently) or (CE 272 or concurrently)) and completion of Tier I writing requirement) P: (MTH 234 or MTH 254H or LB 220) and CE 221 and (((BE 230 or concurrently) or (CE 273 or concurrently) or (CE 274 or concurrently)) and completion of Tier I writing requirement) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering or in the Biosystems Engineering Major. Not open to students with credit in ME 332.

Effective Fall 2013  Effective Fall 2016

CE 337  Civil Engineering Materials I  
Fall of every year. Spring of every year. 4(3-3) P: (ME 222 or concurrently) and (CE 271 or concurrently) and (CE 272 or concurrently) P: (ME 222 or concurrently) and (CE 273 or concurrently) and (CE 274 or concurrently) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering.

Common civil engineering construction and paving materials: aggregates, inorganic cements, asphalts, concretes, wood, and steel. Composition, structure, physical and mechanical properties, tests, and production mix design.  
Effective Fall 2013  Effective Fall 2016

CE 341  Transportation Engineering  
Fall of every year. Spring of every year. 3(3-0) P: ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently) and ((CE 271 or concurrently) and (CE 272 or concurrently)) and completion of Tier I writing requirement) P: ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently) and ((CE 273 or concurrently) and (CE 274 or concurrently)) and completion of Tier I writing requirement) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering or in the Urban and Regional Planning major.

Overview of transportation system issues and problems. Fundamentals of highway design and operations. Planning and evaluation of transportation system alternatives.  
SA: CE 346  
Effective Fall 2013  Effective Fall 2016

CE 371  Sustainable Civil and Environmental Engineering Systems  
Fall of every year. Spring of every year. 3(3-0) P: ((MTH 234 or concurrently) or (LB 220 or concurrently) or (MTH 254H or concurrently)) and (EGR 102 and ENE 280) R: Open to juniors or seniors in the Civil Engineering Major or in the Environmental Engineering Major.

NEW Principles and tools of sustainable design and engineering economics in Civil and Environmental Engineering  
Effective Spring 2016

CE 372  Risk Analysis in Civil and Environmental Engineering  
Fall of every year. Spring of every year. 2(2-0) P: ((MTH 234 or concurrently) or (LB 220 or concurrently) or (MTH 254H or concurrently)) and EGR 102 R: Open to juniors in the Civil Engineering Major or in the Environmental Engineering Major and open to seniors in the Civil Engineering Major or in the Environmental Engineering Major.

NEW Applications of probability, statistics, uncertainty and risk analysis to topics in civil and environmental engineering, characterization of system safety, and comparison tests for engineering quality control and environmental analyses  
Effective Fall 2016

CE 407  Materials Engineering: Properties, Selection and Processing  
Spring of every year. 3(3-0) P: CE 221 and ME 222 RB: MSE 250 R: Open to juniors or seniors in the Chemical Engineering Major or in the Mechanical Engineering Major or in the Civil Engineering Major.

NEW General families of materials, materials design process for civil and environmental engineering problems, structural materials properties, processing methods and environment, microstructure of materials, structural materials selection by utilizing bubble charts.  
Effective Fall 2016
CE 461  Computational Methods in Civil Engineering
Spring of every year. 3(3-2) P: (EGR 102 and CE 221) and (MTH 235 or MTH 255H or MTH 340 or MTH 347H) P: (EGR 102 and CE 221) and (MTH 235 or MTH 340 or MTH 347H) R: Open to juniors or seniors or graduate students in the Civil Engineering Major. Not open to students with credit in ME 361.
Theoretical, numerical, and computational methods for civil engineering problems. Physical modeling, numerical techniques, and programming methods. Focus on civil engineering dynamics, solving systems of differential equations, and visualizing the results.
SA: CE 390
Effective Spring 2014  Effective Fall 2016

CE 495  Senior Design in Civil and Environmental Engineering
Fall of every year. Spring of every year. 4(2-3) RB: CE 495 is to be taken in a student's last semester. Students are to have completed CE371 and CE372 and a minimum of two design-intensive courses in at least two different areas of Civil and/or Environmental Engineering with a grade of 2.0 or greater in each course. The courses that qualify this requirement are (CE 405 or CE 406) and (CE 418) and (CE 431) and (CE 422) and (CE 444 or CE 449) and (ENE 483 or ENE 489) R: Approval of department. R: Open to seniors in the Civil Engineering Major or in the Environmental Engineering Major.
Effective Fall 2013  Effective Spring 2016

ENE 483  Water and Wastewater Engineering
Fall of every year. 3(3-0) Interdepartmental with Civil Engineering. P: (ENE 280 or BE 230) and (CE 321 or CHE 311) R: Open to juniors or seniors or graduate students in the College of Engineering. Engineering and scientific basis and design of physical, chemical and biological methods for the treatment of drinking water and wastewater. Operation process selection and design.
Effective Fall 2013  Effective Fall 2016

EGR 100  Introduction to Engineering Design
Fall of every year. Spring of every year. 2(1-2) P: ((MTH 116 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (WRA 1004 or designated score on English Placement test ) R: Open to students in the College of Engineering and open to students in the Lyman Briggs College. R: Open to students in the College of Engineering or in the Entrepreneurship & Innovation Minor and open to students in the Lyman Briggs College.
Engineering design process as modeled by team-based, interdisciplinary design projects. Roles of engineers and the contributions of engineering in society. Project management, creativity and design of products and processes to specified outcomes under specified constraints. Introduction to computing tools and physical equipment in support of engineering design. Engineering ethics. Oral and written technical communications.
Effective Spring 2015  Effective Spring 2016

ME 361  Dynamics
Fall of every year. Spring of every year. 3(3-0) R: CE 221 and (MTH 235 or MTH 255H or MTH 340 or MTH 347H) P: (CE 221) and (MTH 235 or MTH 340 or MTH 347H) R: Open to students in the College of Engineering.
SA: MSM 306
Effective Fall 2014  Effective Fall 2016
COLLEGE OF NATURAL SCIENCE

BLD 435  Transfusion and Transplantation Medicine
Transfusion Medicine
Spring of every year. 3(3-0) 2(2-0) P: BLD 434 or MMG 451
Principles and practices of transfusion medicine including blood typing. Principles and practices of transplantation medicine. Transplantation immunology, organ procurement, and rejection detection. Principles and practice of transfusion medicine including blood typing. Offered first ten weeks of semester.
SA: MT 435, MT 432
Effective Fall 2014  Effective Spring 2017

BLD 439  Histocompatibility and Immunogenetics
NEW
Spring of every year. 1(1-0) P: BLD 434 or MMG 451
The theory and principles of histocompatibility and immunogenetics as applied to transplant medicine. This course will be offered online the last 5 weeks of the semester, following BLD 435 which is offered the first 10 weeks of the semester.
Effective Spring 2017

CEM 483  Quantum Chemistry
Fall of every year. 3(4-0) P: (MTH 235 or MTH 255H or MTH 347H or MTH 340) and (PHY 184 or PHY 294H or LB 274 or PHY 184B) and (CEM 142 or CEM 152 or CEM 181H or LB 172) P: (MTH 235 or MTH 347H or MTH 340) and (PHY 184 or PHY 294H or LB 274 or PHY 184B) and (CEM 142 or CEM 152 or CEM 181H or LB 172)
Postulates of quantum mechanics and the application to model systems, atoms and molecules. Introduction to molecular spectroscopy.
SA: CEM 362, CEM 461
Effective Spring 2013  Effective Fall 2015

MTH 452  Numerical Analysis II
Spring of every year. 3(3-0) P: MTH 451
REINSTATED
Effective Spring 2016

COLLEGE OF NURSING

NUR 806  Research for Advanced Practice Nurses
Fall of every year. Spring of every year. 3(3-0) R: Open to graduate students in the College of Nursing.
Prepares advanced practice nurses to be proficient in the ethical and clinical application of research including problem identification and critically evaluate the evidence to provide high quality care and improve practice.
Effective Summer 2014  Effective Fall 2015

NUR 836  Primary Care Management of the Adult and Aged I
Spring of every year. Summer of every year. 5(3-6) P: NUR 835 and NUR 807 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.
Principles and issues of health care management for adult and gerontological advanced practice nurses. Health promotion, risk identification, disease prevention, and acute problems for the adult and aged from culturally diverse backgrounds. The role of risk factors and normal aging changes on health. Analysis of adult and aging health topics using appropriate models, frameworks, and evidence-based research.
Effective Fall 2014  Effective Fall 2015
NUR 861  Curriculum Design in Nursing Education  
Fall of every year. 
Summer of every year.  3(3-0) 
P: NUR 802 
RB: Open only to master's students in 
Clinical Nurse Specialist-Nurse Education concentration. 
R: Open to graduate students in the 
Clinical Nurse Specialist Graduate Certificate or in the Master of Science in Nursing. 
R: Open to graduate students in the Master of Science in Nursing.  
Analysis and application of theories, principles, and concepts associated with curriculum 
development, design, and evaluation. 

Effective Fall 2012 Effective Spring 2016

NUR 989  DNP Synthesis Project  
Spring of every year. 
1 to 4 credits. 
A student may earn a maximum of 16 credits in all enrollments 
for this course. 
R: Open to doctoral students in the College of Nursing. 
Demonstrate synthesis of didactic coursework and application to practice by learning a 
practice change innovation to address a health care problem and improve health 
outcomes. 
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 Fall 2015

COLLEGE OF VETERINARY MEDICINE

VM 827  Food Safety Modernization Act and Hazard Analysis and Critical Control Point Systems  
Spring of every year.  3(3-0) 
RB: Professional or graduate status with knowledge of food safety. 
R: Open to graduate students in the Food Safety Major. 
Approval of college. 
R: Open to graduate students in the Food Safety Major or approval of college. 
Food safety requirements for food establishments subject to the Food Safety 
Modernization Act. 
Food safety management systems, with a focus on the Hazard 
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 Spring 2015 Effective Spring 2017