PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. Request to change the requirements for the Agricultural Technology Certificate in Agricultural Industries in the Institute of Agricultural Technology.

   a. Under the heading Requirements for Agricultural Industries make the following changes:

      (1) In item 1. change the credits from '30 to 34' to '31 to 34' and delete the following course:

         AT 291       Selected Topics in Agricultural Technology       2

         Add the following course:

         AT 214       Leadership Development in Agriculture and Natural Resources Industries       2

      (2) Replace item 3. with the following:

         One of the following courses (2 or 3 credits):

         CSS 143       Introduction to Soil Science       2
         CSS 210       Fundamentals of Soil Science       3

      (3) Add the following item 4.: Complete a minimum of 13 elective credit in the college as approved by the program coordinator in the Institute of Agricultural Technology.

      (4) Add the following notes:

         Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the program coordinator.

         Students who do not demonstrate math proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 071 Technical Mathematics (2 credits) as approved by the program coordinator.

   Effective Fall 2017.

2. Request to change the requirements for the Agricultural Technology Certificate in Agricultural Operations in the Institute of Agricultural Technology.

   a. Under the heading Requirements for Agricultural Operations make the following changes:

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

         CSS 135       Crop Scouting and Investigation       2
         CSS 210       Fundamentals of Soil Science       3
         PLP 200       Plant Diseases and Their Pathogens       3

         Add the following courses:

         CSS 135       Crop Scouting and Investigation       3
         CSS 143       Introduction to Soil Science       2
         PLP 105       Fundamentals of Applied Plant Pathology       2
3. Request to change the requirements for the Agricultural Technology Certificate in Applied Horse Science in the Institute of Agricultural Technology.
   a. Under the heading Requirements for Applied Horse Science replace the entire entry with the following:
   
   **1.** All of the following courses (27 credits):
   - ABM 130 Farm Management I 3
   - ANS 140 Fundamentals of Horsemanship 2
   - ANS 144 Introduction to Horse Breeding and Foal Management 1
   - ANS 147 Horse Management Placement Seminar 1
   - ANS 149 Horse Management Clerkship 2
   - ANS 200D Introductory Judging of Horses 2
   - ANS 203 Principle of Livestock Feeding 2
   - ANS 225 Horse Behavior and Welfare 2
   - ANS 242 Introductory Horse Management 3
   - ANS 243 Horse Nutrition and Feeding 2
   - ANS 244 Horse Facility Design and Management 2
   - ANS 247 Horse Health 2
   - AT 293 Professional Internship in Agricultural Technology 3

   **2.** Complete 21 credits of additional course work through a community college partner: Kellogg Community College, Monroe Community College, Montcalm Community College, Muskegon Community College, Northwestern Michigan College, Southwestern Michigan College, West Shore Community College, as approved by the program coordinator in the Institute of Agricultural Technology.

   Effective Fall 2017.

4. Request to change the requirements for the Agricultural Technology Certificate in Dairy Management in the Institute of Agricultural Technology.
   a. Under the heading Requirements for Dairy Management make the following changes:
   
   **(1)** In item 1. delete the following courses:
   - ANS 205 Reproduction in Livestock 2
   - AT 291 Selected Topics in Agricultural Technology 2

   Add the following courses:
   - ANS 295 Structure and Function of Livestock 2
AT 101 Spanish for the Agricultural Industry  2

(2) Add the following notes:

Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the program coordinator.

Students who do not demonstrate math proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 071 Technical Mathematics (2 credits) as approved by the program coordinator.

Effective Fall 2017.

5. Request to change the requirements for the Agricultural Technology Certificate in Fruit and Vegetable Crop Management in the Institute of Agricultural Technology.

a. Under the heading Requirements for Fruit and Vegetable Crop Management make the following changes:

(1) In item 1., change the total credits from ’20’ to ’18’ and delete the following courses:

- CSS 210 Fundamentals of Soil Science  3
- PLP 200 Plant Diseases and Their Pathogens  3

Add the following courses:

- CSS 143 Introduction to Soil Science  2
- PLP 105 Fundamentals of Applied Plant Pathology  2

(2) In item 2., change the credits from ’7’ to ’9’.

(3) Change item 3. to the following:

Completion of 21 credits of additional course work through Delta College, Kellogg Community College, Monroe Community College, Montcalm Community College, Muskegon Community College, Northwestern Michigan College, Southwestern Michigan College, Wayne County Community College, or West Shore Community College. All course work must be approved by the program coordinator in the Institute of Agricultural Technology.

Effective Fall 2017.

6. Request to change the requirements for the Agricultural Technology Certificate in Fruit, Vegetable, and Organic Horticulture Management in the Institute of Agricultural Technology.

a. Under the heading Requirements for Fruit, Vegetable, and Organic Horticulture Management make the following changes:

(1) In item 1., replace the note with the following:

Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the Program Coordinator.

Students who do not demonstrate math proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 071
Technical Mathematics (2 credits) or an equivalent course as approved by the Program Coordinator.

(2) In item 2., delete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 291</td>
<td>Selected Topics in Agricultural Technology</td>
<td>3</td>
</tr>
<tr>
<td>HRT 205</td>
<td>Plant Mineral Nutrition</td>
<td>1</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>AT 101</td>
<td>Spanish for the Agricultural Industry</td>
<td>2</td>
</tr>
<tr>
<td>HRT 203</td>
<td>Principles of Horticulture</td>
<td>3</td>
</tr>
</tbody>
</table>

(3) In item 2., delete the following note:

Students who choose AT 291 Selected Topics in Agricultural Technology must enroll in the section titled 'Spanish – Horticulture Industries'.

Effective Fall 2017.

7. Request to change the requirements for the Agricultural Technology Certificate in Landscape and Nursery Management in the Institute of Agricultural Technology.

a. Under the heading Requirements for Landscape and Nursery Management make the following changes:

(1) In item 1. delete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 291</td>
<td>Selected Topics in Agricultural Technology</td>
<td>2</td>
</tr>
</tbody>
</table>

Add the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 102</td>
<td>Turf and Landscape Analytical Practices</td>
<td>2</td>
</tr>
</tbody>
</table>

Delete the following note:

Students should enroll in the Turf and Landscape Calculations section of AT 291.

(2) In item 2. delete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 053</td>
<td>Engine and Equipment Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>AT 291</td>
<td>Selected Topics in Agricultural Technology</td>
<td>2</td>
</tr>
<tr>
<td>CSS 202L</td>
<td>World of Turf Lab</td>
<td>1</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>AE 153</td>
<td>Engine and Equipment Technology</td>
<td>2</td>
</tr>
<tr>
<td>AT 101</td>
<td>Spanish for the Agricultural Industry</td>
<td>2</td>
</tr>
</tbody>
</table>

Delete the following note:

Students should enroll in the Spanish Horticulture Industries section of AT 291.

(3) Change item 3. to the following:

Complete a minimum of 9 additional credits in the college chosen in consultation with and approved by the program coordinator in the Institute for Agricultural Technology.

(4) Add the following note to the catalog entry:
Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the program coordinator.

Effective Fall 2017.

8. Request to change the requirements for the Agricultural Technology Certificate in Landscape Management in the Institute of Agricultural Technology.

a. Under the heading Requirements for Landscape Management make the following changes:

1. In item 1., change the total credits from ‘27’ to ‘25’ and delete the following courses:
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSS 210</td>
<td>Fundamentals of Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>PLP 200</td>
<td>Plant Diseases and Their Pathogens</td>
<td>3</td>
</tr>
</tbody>
</table>

   Add the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSS 143</td>
<td>Introduction to Soil Science</td>
<td>2</td>
</tr>
<tr>
<td>PLP 105</td>
<td>Fundamentals of Applied Plant Pathology</td>
<td>2</td>
</tr>
</tbody>
</table>

2. Change item 3. to item 2. and replace with the following:

   Completion of 21 credits of additional course work through Kellogg Community College, Monroe Community College, Montcalm Community College, Muskegon Community College, Northwestern Michigan College, Southwestern Michigan College, Wayne Country Community College, or West Shore Community College. All course work must be approved by the program coordinator in the Institute of Agricultural Technology.

3. Add the following item 2.:

   Completion of 2 additional elective credits in the college as approved by the program coordinator in the Institute of Agricultural Technology.

Effective Fall 2017.

9. Request to change the requirements for the Agricultural Technology Certificate in Livestock Industries in the Institute of Agricultural Technology.

a. Under the heading Requirements for Livestock Industries make the following changes:

1. In item 1. change the total credits from ‘26’ to ‘27’ and add the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANS 111</td>
<td>Livestock Industries Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

2. Delete item 2. and replace with the following items 2. and 3.:

   2. One of the following Livestock Clerkships (2 or 3 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANS 115</td>
<td>Meat Technology Clerkship</td>
<td>3</td>
</tr>
<tr>
<td>ANS 122A</td>
<td>Feedlot Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>ANS 122B</td>
<td>Beef Cow Calf Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>ANS 151</td>
<td>Poultry Production Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>ANS 162</td>
<td>Sheep Production Clerkship</td>
<td>2</td>
</tr>
<tr>
<td>ANS 171</td>
<td>Swine Clerkship</td>
<td>2</td>
</tr>
</tbody>
</table>

3. Two of the following Livestock Management courses (6 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANS 222</td>
<td>Introductory Beef Cattle Management</td>
<td>3</td>
</tr>
</tbody>
</table>
### ANS 232 Introductory Dairy Cattle Management  
3

### ANS 252 Introduction to Management of Avian Species  
3

### ANS 262 Introductory Sheep Management  
3

### ANS 272 Introductory Swine Management  
3

(3) Replace former item 3. with the following item 4.:

Complete a minimum of 12 credits in the college as approved by the program coordinator in the Institute of Agricultural Technology.

(4) Add the following notes:

Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the program coordinator.

Students who do not demonstrate math proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 071 Technical Mathematics (2 credits) as approved by the program coordinator.

**Effective Fall 2017.**

10. Request to change the requirements for the *Agricultural Technology Certificate* in **Turfgrass Management-Sports and Commercial Turf Management Emphasis** in the Institute of Agricultural Technology.

a. Under the heading **Requirements for Turfgrass Management-Sports and Commercial Turf Management Emphasis** replace the entire entry with the following:

1. All of the following courses (52 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 153</td>
<td>Engine and Equipment Technology</td>
<td>2</td>
</tr>
<tr>
<td>AT 101</td>
<td>Spanish for the Agricultural Industry</td>
<td>2</td>
</tr>
<tr>
<td>AT 102</td>
<td>Turf and Landscape Analytical Practices</td>
<td>2</td>
</tr>
<tr>
<td>AT 293</td>
<td>Professional Internship in Agricultural Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSS 110</td>
<td>Computer Applications in Agronomy</td>
<td>2</td>
</tr>
<tr>
<td>CSS 171</td>
<td>Operations Budgeting for Golf Course Managers</td>
<td>2</td>
</tr>
<tr>
<td>CSS 178</td>
<td>Turfgrass Irrigation</td>
<td>3</td>
</tr>
<tr>
<td>CSS 181</td>
<td>Pesticide and Fertilizer Application Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSS 210</td>
<td>Fundamentals of Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>CSS 232</td>
<td>Turfgrass Management</td>
<td>4</td>
</tr>
<tr>
<td>CSS 262</td>
<td>Turfgrass Management Seminar</td>
<td>2</td>
</tr>
<tr>
<td>CSS 267</td>
<td>Performance Turf Design and Construction</td>
<td>2</td>
</tr>
<tr>
<td>CSS 269</td>
<td>Turfgrass Strategies: Integration and Synthesis</td>
<td>2</td>
</tr>
<tr>
<td>CSS 272</td>
<td>Turfgrass Soil Fertility</td>
<td>2</td>
</tr>
<tr>
<td>CSS 282</td>
<td>Turfgrass Physiology</td>
<td>2</td>
</tr>
<tr>
<td>CSS 288</td>
<td>Principles of Weed Management</td>
<td>3</td>
</tr>
<tr>
<td>ENT 364</td>
<td>Turfgrass Entomology</td>
<td>3</td>
</tr>
<tr>
<td>HRT 109</td>
<td>Introduction to Applied Plant Science</td>
<td>2</td>
</tr>
<tr>
<td>HRT 213</td>
<td>Landscape Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>HRT 213L</td>
<td>Landscape Maintenance Field Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>HRT 214</td>
<td>Landscape and Turfgrass Business Operations</td>
<td>2</td>
</tr>
<tr>
<td>PLP 266</td>
<td>Turf Pathology</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must enroll in two separate 1-credit sections of CSS 262.
2. Complete a minimum of 2 elective credits in the college as approved by the program coordinator in the Institute of Agricultural Technology.

Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the program coordinator.

Effective Fall 2017.

11. Request to change the requirements for the Agricultural Technology Certificate in Turfgrass Management-Golf Course Emphasis in the Institute of Agricultural Technology.

a. Under the heading Requirements for Turfgrass Management-Golf Course Emphasis replace the entire entry with the following:

1. All of the following courses (52 credits):

   AE 153 Engine and Equipment Technology 2
   AT 101 Spanish for the Agricultural Industry 2
   AT 102 Turf and Landscape Analytical Practices 2
   AT 293 Professional Internship in Agricultural Technology 3
   CSS 110 Computer Applications in Agronomy 2
   CSS 171 Operations Budgeting for Golf Course Managers 2
   CSS 178 Turfgrass Irrigation 3
   CSS 181 Pesticide and Fertilizer Application Technology 3
   CSS 210 Fundamentals of Soil Science 3
   CSS 232 Turfgrass Management 4
   CSS 262 Turfgrass Management Seminar 2
   CSS 264 Golf Course Design and Construction Techniques 2
   CSS 267 Performance Turf Design and Construction 2
   CSS 269 Turfgrass Strategies: Integration and Synthesis 2
   CSS 272 Turfgrass Soil Fertility 2
   CSS 282 Turfgrass Physiology 2
   CSS 288 Principles of Weed Management 3
   ENT 364 Turfgrass Entomology 3
   HRT 109 Introduction to Applied Plant Science 2
   HRT 213 Landscape Maintenance 2
   HRT 213L Landscape Maintenance Field Laboratory 1
   PLP 266 Turf Pathology 3

   Students must enroll in two separate 1-credit sections of CSS 262.

2. Complete a minimum of 2 elective credits in the college as approved by the program coordinator in the Institute of Agricultural Technology.

Students who do not demonstrate English proficiency through the IAT-administered Accuplacer placement test or college-level transfer credit must complete AT 045 Agricultural Communications (2 credits) or an equivalent course as approved by the program coordinator.

Effective Fall 2017.
12. Request to change the requirements for the Agricultural Technology Certificate in Viticulture in The Institute of Agricultural Technology.

   a. Under the heading Viticulture replace the entry with the following:

   **Requirements for Viticulture**

<table>
<thead>
<tr>
<th>CREDITS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>All of the following courses (21 credits):</td>
</tr>
<tr>
<td></td>
<td>AT 202 Agricultural Regulations, Compliance and Safety 3</td>
</tr>
<tr>
<td></td>
<td>AT 293 Professional Internship in Agricultural Technology 3</td>
</tr>
<tr>
<td></td>
<td>CSS 143 Introduction to Soil Science 2</td>
</tr>
<tr>
<td></td>
<td>ENT 110 Applied Entomology of Economic Plants 3</td>
</tr>
<tr>
<td></td>
<td>HRT 231 Clerkship in Grape Harvesting and Processing 1</td>
</tr>
<tr>
<td></td>
<td>HRT 232 Principles of Viticulture 3</td>
</tr>
<tr>
<td></td>
<td>HRT 233 Field Practices of Viticulture 3</td>
</tr>
<tr>
<td></td>
<td>HRT 234 Current Issues in Viticulture and Enology 1</td>
</tr>
<tr>
<td></td>
<td>PLP 105 Fundamentals of Applied Plant Pathology 2</td>
</tr>
<tr>
<td>2.</td>
<td>Complete 21 credits of additional course work through Monroe Community College, Northwestern Michigan College, or Southwestern Michigan College as well as 6 credits through the Viticulture and Enology Science and Technology Alliance. All course work must be approved by the student’s program coordinator.</td>
</tr>
</tbody>
</table>

   Effective Fall 2017.

**COLLEGE OF NATURAL SCIENCE**

1. Request to change the requirements for the Bachelor of Science degree in Physiology in the Department of Physiology.

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

   (1) In item 1., replace paragraph two with the following:
   
   The University’s Tier II writing requirement for the Physiology major is met by completing Physiology 460. That course is referenced in item 3. b. below.

   (2) Replace item 3. a. (1) with the following:

   (1) One course from each of the following groups of courses (6 to 8 credits):

   (a) MTH 124 Survey of Calculus I 3
       MTH 132 Calculus I 3
       MTH 152H Honors Calculus I 3
       LB 118 Calculus I 4

   (b) MTH 126 Survey of Calculus II 3
       MTH 133 Calculus II 4
       MTH 153H Honors Calculus II 4
       LB 119 Calculus II 4
       STT 200 Statistical Methods 3
       STT 201 Statistical Methods 4
       STT 231 Statistics for Scientists 3
       STT 421 Statistics I 3
       STT 464 Statistics for Biologists 3

   (3) In item 3. a. (6) (b), change ‘PHY 183 and 184’ from ‘3’ to ‘4’ credits.

   (4) Delete item 3. a. (7).

   (5) Renumber item 3. a. (8) to 3. a. (7) and update ‘ZOL 320 and 328’ to IBIO 320 and 328’.

   (6) Renumber item 3. a. (9) to 3. a. (8) and replace with the following:
One of the following courses or groups of courses (4 or 6 credits):
(a) BMB 401 Comprehensive Biochemistry 4
(b) BMB 461 Advanced Biochemistry I 3
    BMB 462 Advanced Biochemistry II 3

7) Add the following item 3. a. (9):
One of the following courses (3 credits):
CEM 383 Introductory Physical Chemistry I 3
PSL 425 Physiological Biophysics 3

3) Change item 3. b. to the following:
All of the following courses in the Department of Physiology (16 credits):
PSL 101 Frontiers in Physiology 1
PSL 431 Human Physiology I 4
PSL 432 Human Physiology II 4
PSL 450 Physiology in Health and Disease 3
PSL 460 Topics in Physiology (W) 2
PSL 475L Capstone Laboratory in Physiology 2
The completion of Physiology 450 and 475L satisfies the department’s capstone course requirement.

Effective Summer 2018.

COLLEGE OF NURSING

1. Request to change the requirements for the Doctor of Philosophy degree in Nursing. The University Committee on Graduate Studies (UCGS) will consider this request at its April 10, 2017 meeting.

   a. Under the heading Admission add the following:

5) Must possess a current, unrestricted professional nursing license in Michigan or home jurisdiction.

   b. Under the heading Requirements for the Doctor of Philosophy Degree in Nursing make the following changes:

1) Replace the introductory text with the following:

In addition to meeting the university requirements for the Doctor of Philosophy degree, students will complete required courses, which guide the student in the principles and methods of research for the evaluation and testing of current and developing theories relevant to nursing. Courses in the selected area of focus offer opportunity for students to build upon their educational and experiential backgrounds to develop greater depth of knowledge in their research area. Students will be required to participate in a research team to gain experience in the conduct of nursing research.

The program of study is planned by the student in consultation with the major professor and guidance committee. Components will include core nursing and selected courses relevant to the student’s chosen research concentration. Each student must:

1. complete a minimum of 66 credits of course work as defined below and approved by the guidance committee at time of admission.
2. earn a grade of 3.0 or higher in each NUR course and have an overall grade-point average of 3.0 at graduation.
3. satisfy Responsible Conduct of Research and Scholarship (RCR) requirements.
4. maintain University and College of Nursing compliance requirements.
5. submit one external grant.
6. submit a first-authored, peer-reviewed manuscript approved through the college process.
7. pass the written and oral defense of the comprehensive examination.
8. pass the written and oral defense of the dissertation.

(2) In item 1., make the following changes:

(a) Change the total credits from '48 to 50’ to '51 to 53’.
(b) Add the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 922</td>
<td>Wellness and Risk Reduction Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 923</td>
<td>Self and Symptom Management in Chronic Illness</td>
<td>3</td>
</tr>
</tbody>
</table>

(3) Delete 3. and replace with the following:

A qualitative research course as approved by committee 3

(4) Add the following item 4.:

At least two courses in area of focus, as approved by committee 6

Effective Fall 2017.

COLLEGE OF VETERINARY MEDICINE

1. Request to change the requirements for the Master of Science degree in Integrative Pharmacology in the Department of Pharmacology and Toxicology. The University Committee on Graduate Studies (UCGS) will consider this request at its April 10, 2017 meeting.

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

(1) Change item 1. to the following:

All of the following courses (11 to 15 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHM 819</td>
<td>Principles of Drug-Tissue Interactions</td>
<td>2</td>
</tr>
<tr>
<td>PHM 822</td>
<td>Academic and Research Integrity</td>
<td>1</td>
</tr>
<tr>
<td>PHM 830</td>
<td>Experimental Design and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHM 832</td>
<td>Applied Integrative Pharmacology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHM 895</td>
<td>Applied Project in Integrative Pharmacology</td>
<td>3 to 6</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHM 980</td>
<td>Problems</td>
<td>2</td>
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</tbody>
</table>

(2) In item 3., delete the following note:

Complete a significant, on-the-job project that addresses a research, theoretical or applied problem in whole animal or organ level pharmacology culminating in a written report, suitable for publication. Projects must be pre-approved by the student’s guidance committee. Students not currently employed in a biomedical research laboratory will be expected to participate in an internship in an academic, government or industrial laboratory to satisfy this requirement.

(3) Add the following item 4.:

Students must complete one of the following:

a. a significant, on-the-job project that addresses a research, theoretical or applied problem in whole animal or organ level pharmacology culminating in a written report, suitable for publication. Projects must be pre-approved by the student’s advisor.
b. a significant literature-based research project culminating in a written literature review, suitable for publication. Topics must be pre-approved by the student’s advisor.

Effective Summer 2018.
PART II - NEW COURSES AND CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

AT 101  Spanish for the Agricultural Industry
Spring of every year. 2(2-0) R: Open to agricultural technology students in the College of Agriculture and Natural Resources.
NEW  Practical Spanish related to the agricultural industry.
      Effective Fall 2017

AT 102  Turf and Landscape Analytical Practices
Fall of every year. 2(2-0) RB: Background in the landscape or turf industry. R: Open to agricultural technology students in the College of Agriculture and Natural Resources.
NEW  Analytical practices related to the turf and landscape industry.
      Effective Fall 2017

AT 193  Agricultural Technology Clerkship
Fall of every year. Spring of every year. 2(0-4) A student may earn a maximum of 4 credits in all enrollments for this course. RB: Students should have a background in the agricultural industry that the clerkship will be in. R: Open to agricultural technology students in the College of Agriculture and Natural Resources.
NEW  Hands-on experience in agricultural industry.
      Request the use of the Pass-No Grade (P-N) system.
      Effective Fall 2017

AT 214  Leadership Development in Agriculture and Natural Resources Industries
Fall of every year. 2(2-0) R: Open to agricultural technology students in the College of Agriculture and Natural Resources.
NEW  Leadership development, styles and evaluation in the agriculture and natural resources industries.
      SA: AEE 110, AEE 111
      Effective Fall 2017

COLLEGE OF HUMAN MEDICINE

PSC 609  Adult Psychiatry Clerkship
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 24 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Osteopathic Medicine or in the College of Human Medicine.
Experience in psychiatry in clinical settings with adults.
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 2013 Effective Fall 2017

PSC 610  Child Psychiatry Clerkship
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 24 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Osteopathic Medicine or in the College of Human Medicine.
Experience in psychiatry in clinical settings with child patients and their families.
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 2013 Effective Fall 2017
PART II - NEW COURSES AND CHANGES – continued - 13
April 18, 2017

LYMAN BRIGGS COLLEGE

**LB 117  Functions and Trigonometry**
Fall of every year. Spring of every year. 4(4-0) P: (MTH 103) or designated score on Mathematics Placement test
R: Open to undergraduate students in the Lyman Briggs College. Not open to students with credit in MTH 116 or MTH 114.

**NEW**
Rational and real numbers; functions and inverses. Equations and systems of equations. Inequalities; graphing; trigonometry; and coordinate geometry. Exponential and logarithmic functions.
SA: LBS 117
Effective Fall 2018

**LB 118  Calculus I**
Fall of every year. Spring of every year. 4(4-0) P: (MTH 114 or MTH 116) or designated score on Mathematics Placement test P: (LB 117 or MTH 114 or MTH 116) or designated score on Mathematics Placement test RB: College Algebra and Trigonometry R: Open to students in the Lyman Briggs College. Not open to students with credit in MTH 152H or MTH 132 or MTH 153H.

Limits, continuity, differentiation, integration, and elementary applications.
SA: LBS 118
Effective Spring 2014 Effective Fall 2018

COLLEGE OF NATURAL SCIENCE

**MMG 463  Medical Microbiology**
Fall of every year. 3(3-0) Interdepartmental with Biomedical Laboratory Diagnostics. P: MMG 301 or (MMG 201 and BS 161) or (MMG 201 and LB 145) or (MMG 201 and BS 181H) RB: MMG 451 or BLD 434 R: Open to juniors or seniors in the Biomedical Laboratory Diagnostics Program or in the Department of Microbiology and Molecular Genetics or in the Biomedical Laboratory Science Major or in the Lyman Briggs Biomedical Laboratory Science Coordinate Major or in the Lyman Briggs Environmental/Biology/Microbiology Coordinate Major or in the Environmental Biology/Microbiology Major or in the Genomics and Molecular Genetics Major or in the Lyman Briggs Genomics and Molecular Genetics Coordinate Major or in the Lyman Briggs Human Biology Coordinate Major or in the Human Biology Major or in the Microbiology Major or in the Lyman Briggs Microbiology Coordinate Major.

Properties of pathogenic bacteria and viruses and their mechanisms of pathogenicity and clinical diagnoses.
SA: MIC 463
DELETE COURSE
Effective Spring 2018

**MMG 464  Diagnostic Microbiology Laboratory**
Fall of every year. 2(0-4) Interdepartmental with Biomedical Laboratory Diagnostics. P: MMG 463 or concurrently R: Open to juniors or seniors in the Biomedical Laboratory Diagnostics Program or in the Department of Microbiology and Molecular Genetics or in the Biomedical Laboratory Science Coordinator Major or in the Lyman Briggs Genomics and Molecular Genetics Coordinator Major or in the Lyman Briggs Microbiology Coordinator Major.

Clinical laboratory diagnostic procedures for the identification of pathogenic microbes.
SA: MIC 464
DELETE COURSE
Effective Spring 2018

**PHY 251  Introductory Physics Laboratory I**
Fall of every year. Spring of every year. Summer of every year. 1(0-2) P: (PHY 183 or concurrently) or (PHY 183B or concurrently) or (PHY 193H or concurrently) or (PHY 231 or concurrently) or (PHY 231C or concurrently) P: (PHY 183 or concurrently) or (PHY 183B or concurrently) or (PHY 193H or concurrently) or (PHY 231 or concurrently) or (PHY 231C or concurrently) or (PHY 241 or concurrently) or (PHY 241C or concurrently) or (PHY 241H or concurrently) R: MTH 103 Not open to students with credit in LB 273 or PHY 191.

Laboratory exercises involving simple mechanical systems.
Effective Fall 2013 Effective Spring 2018
PHY 252  Introductory Physics Laboratory II  
Fall of every year. Spring of every year. Summer of every year. 1(0-2) P: (PHY 251 or PHY 191 or LB 273) and ((PHY 232 or concurrently) or (PHY 232C or concurrently) or (PHY 184 or concurrently) or (PHY 184B or concurrently) or (PHY 294H or concurrently)) P: (PHY 251 or PHY 191 or LB 273 or (PHY 242 or concurrently)) and (PHY 251 or PHY 191 or LB 273) Not open to students with credit in LB 274 or PHY 192.  
Laboratory exercises involving simple electromagnetic and optical systems.  
Effective Fall 2013 Effective Spring 2018

COLLEGE OF NURSING

NUR 921  Scientific Foundations of Nursing Knowledge Development  
Fall of every year. Spring of every year. 3(3-0) R: Open to doctoral students in the College of Nursing or in the Nursing Major.  
Philosophical, epistemological, ontological, and ethical foundations of nursing. Critically examines historical factors in the evolution of nursing theory.  
Effective Fall 2016 Effective Summer 2017

NUR 922  Wellness and Risk Reduction Behaviors  
Fall of even years. 3(3-0) R: Open to doctoral students in the College of Nursing or in the Nursing Major.  
NEW  Critically examines the current state of the science related to wellness and risk reduction behaviors and interventions to improve health outcomes for various populations across the lifespan.  
Effective Fall 2017

NUR 923  Self and Symptom Management in Chronic Illness  
Fall of odd years. 3(3-0) R: Open to doctoral students in the College of Nursing or in the Nursing Major.  
NEW  Critically examines the current state of the science related to self and symptom management and interventions to improve chronic illness outcomes for various populations across the lifespan.  
Effective Fall 2017

COLLEGE OF OSTEOPATHIC MEDICINE

FCM 640  Principles of Family Medicine  
Fall of every year. 1(0-4) RB: Successful completion of Semesters 1, 2, 3 and 4 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.  
REINSTATEMENT  Preceptorship experience in family medicine taught by faculty and clinical preceptors at multiple sites.  
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 1 semester after the end of the semester of enrollment.  
Effective Summer 2018