The effective date for new programs subject to Statewide Academic Program review is implemented in accordance with the Statewide Academic Program Review calendar.
TO: Faculty Senate

This report is prepared and distributed for the following purposes:

1. To report new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
2. To notify the initiating colleges, schools, and departments of approval by the University Committee on Curriculum of their requests for new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses. Any items not approved by the Faculty Senate will be reported to the appropriate college and department or school.
3. To provide information to members of the faculty in each department about academic programs and courses in all colleges, departments, and schools of the University.

Reports of the University Committee on Curriculum to the Faculty Senate are organized as follows:

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:
Organized by colleges in alphabetical order. For a given college, academic units are organized in alphabetical order. For a given academic unit, degrees, majors, and specializations are organized in alphabetical order.

PART II - NEW COURSES:¹
Organized by academic units in alphabetical order; All-University courses appear last. For a given academic unit, courses are organized according to the names associated with course subject codes, in alphabetical order. Courses with the same subject code are in numerical order.

PART III - COURSE CHANGES:¹
Organized by academic units in alphabetical order; All-University courses appear last. For a given academic unit, courses are organized according to the names associated with course subject codes, in alphabetical order. Courses with the same subject code are in numerical order.

Not all of the above categories, and not all of the colleges and academic units, will necessarily appear in any given Senate Report.

¹One or more of the abbreviations that follow may be included in a course entry:
P: = Prerequisite monitored in SIS
C: = Corequisite
R: = Restriction
RB: = Recommended background
SA: = Semester Alias
MICHIGAN STATE UNIVERSITY
September 12, 2017

TO: Faculty Senate
FROM: University Committee on Curriculum
SUBJECT: New Academic Programs and Program Changes: New Courses and Course Changes

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. 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. 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

      (2) In item 1. change the total credits from ‘30’ to ‘29’.

      (3) In item 2. change the credits from ‘4’ to ‘5’.

      (4) Replace item 3. with the following:

      Completion of 21 credits of additional course work through Delta College, Glen Oaks Community College, Kellogg Community College, Monroe Community College, Montcalm Community College, Muskegon Community College, Northwestern Michigan College, Southwestern Michigan 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.

3. 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.
4. 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.

5. 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:

   - AT 291 Selected Topics in Agricultural Technology 3
   - HRT 205 Plant Mineral Nutrition 1

   Add the following courses:

   - AT 101 Spanish for the Agricultural Industry 2
   - HRT 203 Principles of Horticulture 3
(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.

6. 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:

AT 291 Selected Topics in Agricultural Technology

Add the following course:

AT 102 Turf and Landscape Analytical Practices

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:

AE 053 Engine and Equipment Maintenance
AT 291 Selected Topics in Agricultural Technology
CSS 202L World of Turf Lab

Add the following courses

AE 153 Engine and Equipment Technology
AT 101 Spanish for the Agricultural Industry

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.
7. 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:

         | Course Code | Course Title                        | Credits |
         |-------------|-------------------------------------|---------|
         | CSS 210     | Fundamentals of Soil Science         | 3       |
         | PLP 200     | Plant Diseases and Their Pathogens   | 3       |

         Add the following courses:

         | Course Code | Course Title                        | Credits |
         |-------------|-------------------------------------|---------|
         | CSS 143     | Introduction to Soil Science         | 2       |
         | PLP 105     | Fundamentals of Applied Plant Pathology | 2       |

      (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.

8. 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:

         | Course Code | Course Title                        | Credits |
         |-------------|-------------------------------------|---------|
         | ANS 111     | Livestock Industries Seminar        | 1       |

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

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

         | Course Code | Course Title                        | Credits |
         |-------------|-------------------------------------|---------|
         | ANS 115     | Meat Technology Clerkship           | 3       |
         | ANS 122A    | Feedlot Clerkship                  | 2       |
         | ANS 122B    | Beef Cow Calf Clerkship            | 2       |
         | ANS 151     | Poultry Production Clerkship       | 2       |
         | ANS 162     | Sheep Production Clerkship         | 2       |
         | ANS 171     | Swine Clerkship                    | 2       |

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

         | Course Code | Course Title                        | Credits |
         |-------------|-------------------------------------|---------|
         | ANS 222     | Introductory Beef Cattle Management| 3       |
         | 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.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

(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.


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):
   
   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 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
   HRT 214  Landscape and Turfgrass Business Operations  2
   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.

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
   - HRT 234 Current Issues in Viticulture and Enology 1
   - PLP 105 Fundamentals of Applied Plant Pathology 2

   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. 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

1. All of the following courses (21 credits):
   - AT 202 Agricultural Regulations, Compliance and Safety 3
   - AT 293 Professional Internship in Agricultural Technology 3
   - CSS 143 Introduction to Soil Science 2
   - ENT 110 Applied Entomology of Economic Plants 3
   - HRT 231 Clerkship in Grape Harvesting and Processing 1
   - HRT 232 Principles of Viticulture 3
   - HRT 233 Field Practices of Viticulture 3
   - HRT 234 Current Issues in Viticulture and Enology 1
   - PLP 105 Fundamentals of Applied Plant Pathology 2
2. 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. Effective Fall 2017.

12. Change the requirements for **Bachelor of Science** degree in **Environmental Studies and Sustainability** in the Department of Community Sustainability.

   a. Under the heading **Requirements for the Bachelor of Science Degree in Environmental Studies and Sustainability** replace the entire entry with the following:

   1. The University requirements for bachelor’s degrees as described in the *Undergraduate Education* section of this catalog: 120 credits, including general elective credits, are required for the Bachelor of Science degree in Environmental Studies and Sustainability.

   The University’s Tier II writing requirement for the Environmental Studies and Sustainability major is met by completing Community Sustainability 330, or 433. Those courses are referenced in item 3. d. below.

   Students who are enrolled in the Environmental Studies and Sustainability major leading the Bachelor of Science degree in the Department of Community Sustainability may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Biological Science 162 and 172, and Chemistry 141. The completion of Biological Science 172 satisfies the laboratory requirement. Biological Science 162 and 172, and Chemistry 141 may be counted toward both the alternative track and the requirements for the major referenced in item 3. below.

   The completion of the College of Agriculture and Natural Resources mathematics requirement may also satisfy the University mathematics requirement.

   2. The requirements for the College of Agriculture and Natural Resources for the Bachelor of Science degree.

   Certain courses referenced in requirement 3. below may be counted toward College requirements as appropriate.

   3. The following requirements for the major (64 to 68 credits):

   | CREDITS |
   |------------------|------------------|------------------|
   | a. All of the following courses (31 credits): |
   | BS 161 Cell and Molecular Biology | 3 |
   | BS 162 Organismal and Population Biology | 3 |
   | BS 172 Organismal and Population Biology Laboratory | 2 |
   | CEM 141 General Chemistry | 4 |
   | CSUS 200 Introduction to Sustainability | 3 |
   | CSUS 221 Seminar in Environmental and Sustainability Careers | 1 |
   | CSUS 300 Theoretical Foundations of Sustainability | 3 |
   | CSUS 301 Citizen Engagement for Sustainability | 3 |
   | CSUS 310 History of Environmental Thought and Sustainability | 3 |
   | EEP 255 Ecological Economics | 3 |
   | IBIO 355 Ecology | 3 |
   | b. Two of the following courses (6 credits): |
   | CSUS 215 International Development and Sustainability | 3 |
   | CSUS 265 Exploring Environmental and Sustainability Issues and Policy with Film | 3 |
   | CSUS 273 Introduction to Travel and Tourism | 3 |
   | CSUS 276 Sustaining our National Parks and |
Recreation Lands 3

c. One of the following courses (3 or 4 credits):
   CSS 210 Fundamentals of Soil Science 3
   GEO 206 Physical Geography 3
   GLG 201 The Dynamic Earth 4

d. One of the following courses (3 credits):
   CSUS 330 Organizational Management for Community Sustainability (W) 3
   CSUS 433 Grant Writing and Fund Development (W) 3

e. One of the following courses (3 credits):
   CSUS 464 Environmental and Natural Resource Policy in Michigan 3
   CSUS 465 Environmental and Law and Policy 3
   FOR 466 Natural Resource Policy 3
   IBIO 446 Environmental Issues and Public Policy 3

f. Three of the following courses (9 to 11 credits):
   CSUS 320 Environmental Planning and Management 3
   CSUS 354 Water Resources Management 3
   CSUS 425 Environmental Impact Assessment 3
   CSUS 426 Advanced Environmental Impact Assessment 4
   CSUS 429 Program Planning and Evaluation 3
   FW 419 Applications of Geographic Information Systems to Natural Resources Management 4
   GEO 221 Introduction to Geographic Information 3
   GEO 325 Geographic Information Systems 3

g. One of the following courses (3 or 4 credits):
   CSUS 322 Leadership for Community Sustainability 3
   CSUS 330 Organizational Management for Community Sustainability (W) 3
   CSUS 473 Social Entrepreneurship for Community Sustainability 3
   CSUS 476 Natural Resource Recreation Management 4

h. One of the following courses (3 credits):
   CSUS 343 Community Food and Agricultural Systems 3
   CSUS 431 Interpretation and Visitor Information Systems 3
   CSUS 445 Community-Based Environmental and Sustainability Education 3
   CSUS 447 Community Economic Development 3

i. A minimum of 3 credits in one of the following courses:
   CSUS 418 Community Sustainability Study Abroad 3 to 6
   CSUS 419 International Studies in Community Sustainability 3 to 12
   CSUS 493 Professional Internship in Community Sustainability 3 to 6

Students may substitute another appropriate course with approval of the department.

Effective Fall 2017.
COLLEGE OF ARTS AND LETTERS

1. Change the requirements for the Minor in American Indian and Indigenous Studies in the College of Arts and Letters.
   a. Under the heading Requirements for the Minor in American Indian and Indigenous Studies make the following changes:
      (1) In item 1. delete the following course:
           AL 202 Introduction to American Indian and Indigenous Studies 3
           Add the following course:
           AIIS 201 Introduction to American Indian and Indigenous Studies 3
      (2) In item 2. under College of Arts and Letters add the following course:
           AIIS 491 Topics in American Indian and Indigenous Studies 3
      (3) In item 3. a. delete the following course:
           AL 493A Arts and Letters Internship 3
           Add the following course:
           AIIS 493 Internship in American Indian and Indigenous Studies 3
      (4) In item 3. b. delete the following course:
           AL 490 Independent Study 3
           Add the following course:
           AIIS 490 Independent Study 3

   Effective Fall 2017.

2. Change the requirements for the Bachelor of Arts degree in Interdisciplinary Humanities in the College of Arts and Letters.
   a. Under the heading Requirements for the Bachelor of Arts Degree in Interdisciplinary Humanities make the following changes:
      (1) Change item 1., paragraph two to the following:
           The University's Tier II writing requirement for the Interdisciplinary Humanities major is met by completing AL 492A, the capstone seminar, referenced in item 3. a. (1) below. With approval of the college, a student may use the Tier II writing requirement for one of the departmental majors that is associated with one of the emphasis areas within the College of Arts and Letters that the student selects to satisfy the requirements for the Bachelor of Arts degree with a major in Interdisciplinary Humanities. Refer to the requirements referenced in items 3. a. (2) (a) (i) and 3. a. (2) (b) (i).
      (2) Change item 3. a. (1) to the following:
Completion of AL 492A Capstone Seminar in Interdisciplinary Humanities (W) (3 credits). This course satisfies the Tier II writing requirement and the college capstone requirement. With the approval of the College, the student may substitute a capstone seminar course in one of the departmental majors associated with one of the emphasis areas in the College of Arts and Letters that the student selects to satisfy the requirements for the Bachelor of Arts degree with a major in Interdisciplinary Humanities. The course used to satisfy this requirement may not also be used to satisfy requirement 3. a. (2) (a) below.

(3) Change item 3. b. to the following:

At least 6 credits in courses that involve quantitative reasoning skills selected from areas such as the following: mathematics, computer science, economics, statistics and probability, logic, management, business, and research or creative methodology. Both the area and the related courses must be approved by the student’s academic advisor. Courses used to fulfill the University mathematics requirement may not be used to fulfill this requirement.

(4) Replace footnote 1 with the following:

An emphasis area is associated with a departmental major or minor.

(5) Delete footnote 3.

Effective Summer 2017.

3. Change the requirements for the Bachelor of Arts degree in Arabic in the Department of Linguistics and Germanic, Slavic, Asian and African Languages. The Teacher Education Council (TEC) approved this request at its April 3, 2017 meeting.

a. Under the heading Requirements for the Bachelor of Arts Degree in Arabic make the following changes:

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

Students with intermediate or advanced-level Arabic can substitute ARB 451 Advanced Arabic Reading or ARB 452 Advanced Arabic Writing for any of the courses above. If ARB 451 or 452 are used as substitutions, they may not be used in fulfillment of the elective requirement in item 3. c. below.

(2) Change item 3. b. to ‘All of the following courses (9 credits)’ and add the following course:

ARB 360 Arabic Language and Society 3

(3) Delete item 3. c.

(4) Reletter item 3. d. to 3. c. and replace ‘special assignments’ with ‘advanced language study’.

(5) Reletter item 3. e. to 3. d. and replace with the following:

A cognate of 12 credits in the field of Middle Eastern studies approved by the student’s academic advisor.

b. Under the heading Additional Major in Arabic add ARB 360 to the list of courses referenced in item 3. b.

Effective Fall 2017.
4. Change the requirements for the Minor in Arabic in the Department of Linguistics and Germanic, Slavic, Asian and African Languages.

   a. Under the heading Requirements for the Minor in Arabic make the following changes:

      (1) In item 2. add the following course:

            ARB 360 Arabic Language and Society    3

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

            Students with intermediate or advanced-level Arabic can substitute ARB 361 Advanced Arabic III or ARB 362 Advanced Arabic IV for any of the courses in item 1. above.

   Effective Fall 2017.

5. Change the requirements for the Disciplinary Teaching Minor in Arabic that is available for elementary and secondary teacher certification in the Department of Linguistics and Germanic, Slavic, Asian and African Languages. The Teacher Education Council (TEC) approved this request at its April 3, 2017 meeting.

   a. Under the heading Arabic make the following change:

      (1) In item 1., delete the following note:

            Students with intermediate or advanced-level Arabic can substitute ARB 351, 352, 361, or 362 for any of the courses above.

      (2) In item 2. add the following course:

            ARB 360 Arabic Language and Society    3

   Effective Fall 2017.

6. Change the requirements for the Minor in Teaching English to Speakers of Other Languages in the Department of Linguistics and Germanic, Slavic, Asian and African Languages.

   a. Under the heading Requirements for the Minor in Teaching English to Speakers of Other Languages make the following change:

      (1) In item 2., delete the following course:

            LLT 307 Methods of Second and Foreign Language Teaching    3

      Add the following course:

            LLT 306 Methods of Teaching Adult and Community English to Speakers of Other Languages    3

   Effective Fall 2017.
7. Change the requirements for the **Minor in Indian and South Asian Languages and Cultures** in the Department of Linguistics and Germanic, Slavic, Asian and African Languages.

   a. Under the heading **Requirements for the Minor in Indian and South Asian Languages and Cultures** make the following changes:

      (1) Change item 1. to the following:

          Complete the equivalent of 2.5 years of academic study in a South Asian language or demonstrate equivalent proficiency through placement testing. Any courses needed at the 200-level or above to fulfill this requirement may count towards the 17 credits required for the minor.

      (2) Change item 2. to 'Complete additional courses needed to reach 17 credits from the following courses'.

      (3) In item 2. delete the following course:

          ANP 414 Anthropology of South Asia    3

      (4) In item 2. change the note to the following:

          Students must obtain advisor approval before enrolling in ASN 291, ASN 491, ENG 360, and HA 461 to ensure appropriate South Asian content. Other South Asian language courses not used to fulfill the language requirement in item 1. and other approved courses with South Asian content may be used to fulfill the requirements of the minor.

    Effective Summer 2017.

**ELI BROAD COLLEGE BUSINESS**

1. Change the requirements for the **Minor in Retail Management** in the Department of Management.

   a. Under the heading **Requirements for the Minor in Retail Management** make the following changes:

      (1) In item 3., add the following course:

          MGT 371 Retail Planning and Buying    3

      (2) In item 4., delete the following course:

          MKT 439 Food Business Analysis and Strategic Planning (W)    3

    Effective Spring 2018.
2. Change the requirements for the Bachelor of Arts degree in Supply Chain Management in the Department of Supply Chain Management.

   a. Under the heading Requirements for the Bachelor of Arts Degree in Supply Chain Management make the following changes:

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

          The University's Tier II writing requirement for the Supply Chain Management major is met by completing Supply Chain Management 470 or 472. Those courses are referenced in item 3. a. below.

      (2) In item 3. a. (1) change the total credits from '11' to '9' and delete the following course:

          SCM 470 Supply Chain Application and Policy (W) 2

      (3) Renumber item 3. a. (2) to item 3. a. (3).

      (4) Add the following item 3. a. (2):

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

          SCM 470 Supply Chain Application and Policy (W) 2
          SCM 472 Supply Chain Industry Applications 3

      (5) Change the total credits in 3. a. from '15' to '15 or 16'.

   Effective Fall 2017.

COLLEGE OF COMMUNICATION ARTS AND SCIENCES

1. Change the requirements for Master of Arts Degree in Media and Information. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading Master of Arts Degree in Media and Information replace the entire entry with the following:

      NOTE: The concentrations in Human Computer Interaction and Media and Information Management will no longer be transcriptable. No new students are to be admitted to either concentration effective Summer 2018. No students are to be readmitted to either concentration effective Summer 2018. Effective Spring 2025, coding for both concentrations will be discontinued and the concentrations will no longer be available. Students who have not met the requirements for either concentration prior to Spring 2025 will no longer have the option for the concentration to be noted on the transcript.

      1. Students must complete 15 credits from the following courses:

         MI 803 Introduction to Quantitative Research Methods 3
         MI 820 Theories of Media and Information 3
         MI 830 Foundations of Serious Games 3
         MI 831 Theories of Games and Interaction Design 3
         MI 839 Game and Film Design Studio I 3
         MI 841 Understanding Users 3
         MI 844 Interaction Design 3
         MI 845 Interactive Usability and Accessibility: Design and Evaluation 3
         MI 846 Game and Film Design Studio II 3
         MI 850 Media and Information Policy 3
         MI 851 Understanding and Managing Social Media 3
         MI 852 Media and Information Economics 3
         MI 861 Media and Information Technologies in Organizations 3
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

MI 862 Managing Digital Enterprises 3
MI 875 Information and Communication Technology and Development 3
MI 877 Global Media and Communications 3

2. Additional elective course work at the 400-level or above to meet the 30 credits required for the degree. The course work must be approved by the student's academic advisor. Not more than 6 elective credits may be taken from outside the college except through joint programs such as the Graduate Specialization in Management of Information Technology. Not more than 6 credits in media and information independent study or internship courses combined may be counted toward the requirements for the Master of Arts degree in Media and Information.

Additional Requirements for Plan A
MI 899 Master’s Thesis Research 4 to 6

Additional Requirements for Plan B
One of the following:
MI 898 Master’s Project 4 to 6
or
Completion of a comprehensive examination.

Effective Summer 2018.

2. Change the requirements for Graduate Specialization in Management of Information Technology. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

a. Under the heading Admission replace the statement with the following:

Students must apply to the department in writing and fill out a plan of study prior to admission to the specialization

b. Under the heading Requirements for the Graduate Specialization in Management of Information Technology make the following changes:

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 824</td>
<td>Governance and Control of Enterprise Systems</td>
<td>3</td>
</tr>
<tr>
<td>MI 862</td>
<td>Information Networks and Electronic Commerce</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>MI 861</td>
<td>Media and Information Technologies in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MI 862</td>
<td>Managing Digital Enterprises</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 843</td>
<td>Value Chain Accounting and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ITM 881</td>
<td>Network Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MKT 829</td>
<td>Marketing Technology and Analytics</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Summer 2018.
JAMES MADISON COLLEGE

1. Change the requirements for the Minor in Political Economy in James Madison College.
   a. Under the heading Requirements for the Minor in Political Economy make the following changes:
      (1) In item 1. under Supplemental Political Economy Courses delete the following courses:
          MC 340 Economic Growth       4
          MC 347 Urban and Regional Development     4
      Add the following courses:
          MC 349 Economics of Legal Relationships in Comparative Perspective       4
          MC 361 Political Economy and comparative Public Policymaking       4
          MC 380 Social Policy       4
          MC 381 American Politics and Equality       4
          MC 430 Applied International Development       4
      (2) In item 3. under Law and Political Economy in Policymaking add the following course:
          EC 436 Public Revenues (W)      3
      (3) In item 3. under Society and Political Economy in Policymaking delete the following courses:
          EEP 453 Women and Work: Issues and Policy Analysis   3
          MC 347 Urban and Regional Development     4
          SOC 322 Sociology of Work      3
      Add the following courses:
          EC 438 Urban Economics (W)       3
          EC 485 Economics of Education (W)      3
          FW 445 Biodiversity Conservation Policy and Practice     3
          MC 367 Global Cities and Urbanism       4
          MC 380 Social Policy       4
          MC 381 American Politics and Equality       4
          MC 384 Metropolitan Society       4
      (4) In item 3. under Political Economy in International Relations add the following courses:
          MC 430 Applied International Development     4
          MC 450 International Environmental Law and Policy     3
      (5) In item 3. under Political Economy and Public Affairs in Comparative Perspectives add the following course:
          MC 430 Applied International Development     4

Effective Fall 2017.
2. Change the requirements for the **Minor in Science, Technology, Environment and Public Policy**.

   a. Under the heading **Requirements for the Minor in Science, Technology, Environment and Public Policy** make the following changes:

   (1) Under the **History, Philosophy, and Sociology of Science** section, delete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 483</td>
<td>Literature and Medicine</td>
<td>3</td>
</tr>
<tr>
<td>FW 438</td>
<td>Philosophy of Ecology (W)</td>
<td>3</td>
</tr>
<tr>
<td>JRN 412</td>
<td>Environmental Reporting</td>
<td>3</td>
</tr>
<tr>
<td>LB 330</td>
<td>Topics in History, Philosophy, and Sociology of Science (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 332</td>
<td>Technology and Culture</td>
<td>4</td>
</tr>
<tr>
<td>LB 333</td>
<td>Topics in History of Science</td>
<td>4</td>
</tr>
<tr>
<td>LB 336</td>
<td>Gender, Science, Technology (W)</td>
<td>4</td>
</tr>
<tr>
<td>PHL 484</td>
<td>Philosophy of Biological Science</td>
<td>3</td>
</tr>
<tr>
<td>PRR 302</td>
<td>Environmental Attitudes and Concepts</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>CSUS 310</td>
<td>History of Environmental Thought and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>LB 323A</td>
<td>Science in a Global Context – Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 323B</td>
<td>Science in a Global Context – Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 324A</td>
<td>Science and Sex, Gender, Sexuality – Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 324B</td>
<td>Science and Sex, Gender, Sexuality – Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 325A</td>
<td>Science and the Environment – Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 325B</td>
<td>Science and the Environment – Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 327A</td>
<td>Scientific Practice – Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 327B</td>
<td>Scientific Practice – Social Sciences (W)</td>
<td>4</td>
</tr>
</tbody>
</table>

   (2) Under the **Public Policy** section, delete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEP 320</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ESA 430</td>
<td>Law and Resources</td>
<td>3</td>
</tr>
<tr>
<td>ESA 433</td>
<td>Law and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>ESA 440</td>
<td>Environmental Policy Making in Michigan</td>
<td>3</td>
</tr>
<tr>
<td>ESA 460</td>
<td>Natural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>FOR 464</td>
<td>Forest Resource Economics (W)</td>
<td>3</td>
</tr>
<tr>
<td>LB 334</td>
<td>Science, Technology and Public Policy (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 335</td>
<td>The Natural Environment: Perceptions and Practices</td>
<td>4</td>
</tr>
<tr>
<td>NUR 401</td>
<td>Aging and Health in the United States</td>
<td>3</td>
</tr>
<tr>
<td>PRR 371</td>
<td>Management of Park and Recreation Agencies and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PRR 388</td>
<td>Physical Resource Management in Parks, Recreation and Tourism</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>CSUS 464</td>
<td>Environmental and Natural Resource Policy in Michigan</td>
<td>3</td>
</tr>
<tr>
<td>CSUS 465</td>
<td>Environmental and Natural Resource Law</td>
<td>3</td>
</tr>
<tr>
<td>LB 321A</td>
<td>Science and the Public – Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 321B</td>
<td>Science and the Public – Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 322A</td>
<td>Advances in Science and Technology – Arts and Humanities (W)</td>
<td>4</td>
</tr>
</tbody>
</table>
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 322B</td>
<td>Advances in Science and Technology – Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 326A</td>
<td>Medicine and Health – Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 326B</td>
<td>Medicine and Health – Social Sciences (W)</td>
<td>4</td>
</tr>
</tbody>
</table>

Effective Fall 2017.

**COLLEGE OF MUSIC**

1. Change the **College of Music Requirements for the Doctor of Musical Arts and Doctor of Philosophy Degrees** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.
   
   a. Under the heading **College of Music Requirements for the Doctor of Musical Arts and Doctor of Philosophy Degrees** make the following change:
      
      (1) In the section **Comprehensive Examinations** replace the entry with the following:
      
      All students who are enrolled in doctoral degree programs within the College of Music are required to pass comprehensive examinations. For details about those examinations, see the statements on those programs in the sections that follow. The comprehensive examinations are given during fall and spring semesters and the summer session.

   Effective Fall 2017.

2. Change the requirements for the **Master of Music** degree in **Jazz Studies** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.
   
   a. Under the heading **Requirements for the Master of Music Degree in Jazz Studies** make the following changes:
      
      (1) In item 1. delete the following course:

      MUS 891 Special Topics 2

      Add the following course:

      MUS 800 Advanced Jazz Arranging and Composition 2

   (2) Replace item 4. with the following:

   Participate in two music activities during each of four semesters of enrollment in the program. The activities must be approved by the student’s academic advisor and must be jazz band, jazz octet, or jazz combo.

   Effective Fall 2017.
3. Change the requirements for the Master of Music degree in Music Composition in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading Requirements for the Master of Music Degree in Music Composition make the following changes:

      (1) Change the total credits from ‘33’ to ‘32’.

      (2) In item 1. make the following change:

         (a) Change the total credits from ‘21’ to ‘20’

         (b) Change the credits of ‘MUS 978’ from ‘3’ to ‘2’.

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

         MUS 972 Analytical Studies I     3
         MUS 973 Analytical Studies II     3

      (4) In item 2. b. delete the following note:

         Either Music 972 or 973, but not both of those courses, may be used to satisfy the requirements referenced in item 2. a.

      (5) In item 4., add ‘or ensemble’ after ‘jazz band’.

   Effective Fall 2017.

4. Change the requirements for the Doctor of Musical Arts degree in Music Composition in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading Requirements for the Doctor of Musical Arts Degree in Music Composition make the following changes:

       (1) In item 1. change ‘music history’ to ‘musicology’.

       (2) Replace item 3. with the following:

         Pass the written comprehensive examinations in composition, musicology, and music theory. Students become eligible to take the comprehensive examination in each of these areas during the semester in which they are completing the required course work in that area, with the exception of Music 998 credits.

   Effective Fall 2017.

5. Change the requirements for the Master of Music degree in Music Education in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading Requirements for the Master of Music Degree in Music Education make the following changes:

      (1) In item 2.b. remove ‘and composition’.

   Effective Fall 2017.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

6. Change the requirements for the **Doctor of Philosophy** degree in **Music Education** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading **Admission** delete the following:

      In addition, an international applicant is required to have fulfilled the university's English language proficiency requirement as described in the Graduate Education section of this catalog in one of the following three ways:

      1. Have a total score of 580 (paper version) or 237 (computer version) or above on the **Test of English as a Foreign Language** with no subscore below 55 (paper version) or 21 (computer version).

      2. Have an average score of 85 or higher on the **Michigan English Language Assessment Battery** with no subscore below 82.

      3. Have an average score of 85 or higher on the **English Language Center Test** with no subscore below 82.

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

      (1) In item 1. a. (2) change the credits of ‘MUS 964’ from ‘3’ to ‘2’.

      (2) In item 1. b. delete ‘music therapy’ as a cognate area.

   Effective Fall 2017.

7. Change the requirements for the **Master of Music** degree in **Music Performance** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading **Requirements for the Master of Music Degree in Music Performance** make the following change:

      (1) Under the **Instrumental Music** area, in item 1. Piano, delete the following requirement under a.:

      One movement of a concerto with orchestra or second piano accompaniment must be included in the piano recital performance.

   Effective Fall 2017.

8. Change the requirements for the **Doctor of Musical Arts** degree in **Music Performance** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

   a. Under the heading **Requirements for the Doctor of Musical Arts Degree in Music Performance** make the following changes:

      (1) In item 2. b. replace ‘music history’ with ‘musicology’.

      (2) Replace item 2.c. with the following:

      three courses in music theory at the 800- or 900-level. Students with a master’s degree from Michigan State University will be required to take only two courses.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

(3) Replace item 3. with the following:

Pass the written comprehensive examinations in musicology and music theory. Students become eligible to take the comprehensive examination in either of these areas during the semester in which they are completing the required coursework in that area.

Effective Fall 2017.

9. Change the **Master of Music** degree in **Music Theory** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.
   a. Under the heading **Requirements for the Master of Music Degree in Music Theory** make the following changes:
      (1) Change the total credits from ‘31’ to ‘30 to 32’.
      (2) In item 1. make the following changes:
          (a) Change the total credits from ‘15’ to ‘13’.
          (b) Delete the following courses:
              MUS 872 Tonal Forms  2
              MUS 873 Early 20th Century Techniques  2
          Add the following course:
              MUS 979 Proseminar in Music Theory  2
          (c) Delete the following note:
              Students who pass the Tonal Forms portion of the Graduate Orientation Examination in Music Theory do not need to take MUS 872, and students who pass the Early 20th-Century Techniques portion of the Graduate Orientation Examination in Music Theory do not need to take MUS 873. If a student elects not to take the course(s) from which the orientation examination has exempted the student, the course(s) will be replaced with the corresponding number of elective credits chosen in consultation with the student's academic advisor. MUS 869 Graduate Counterpoint is considered remedial for incoming Master of Music Theory students. Those who do not pass the Counterpoint portion of the Graduate Orientation Examination in Music Theory cannot count the credit towards the degree.
      (3) Renumber item 3. to item 4. and make the following changes:
          (a) Change the total credits from ‘6’ to ‘5 or 6’
          (b) Delete the following courses:
              MUS 979 Tonal Literature and Analysis  3
              MUS 978 Seminar in 20th and 21st Century Music Theory and Analysis  3
          Add the following course:
              MUS 978 Late 20th- and 21st-Century Techniques  2
      (4) Add the following new item 3.:
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

One of the following courses (2 credits):
MUS 873 Early 20th Century Techniques  
MUS 978 Late 20th- and 21st- Century Techniques  
Successful completion of the Early 20th Century Techniques portion of the Graduate Orientation Examination in Music Theory will fulfill this requirement.
In that case, the 2 credits will be replaced by electives. Students who take both MUS 873 and 978 may count one of the courses toward requirement 4. below.


(6) In item 10., replace ‘MUS 975’ with ‘MUS 973’.

Effective Fall 2017.

10. Change the requirements for the Master of Arts degree in Musicology in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

a. Under the heading Requirements for the Master of Arts Degree in Musicology make the following changes:

(1) Under the heading Requirements for Both Plan A and Plan B make the following changes:

(a) In item 3. change the credits from ‘3’ to ‘2 or 3’.

(b) In item 6. change the credits from ‘5’ to ‘5 or 6’.

Effective Fall 2017.

11. Change the requirements for the Master of Music degree in Piano Pedagogy in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its April 10, 2017 meeting.

a. Under the heading Requirements for the Master of Music Degree in Piano Pedagogy make the following changes:

(1) Change the total credits required from ‘31’ to ‘At least 30’.

(2) Replace item 1. with the following:
Complete all of the following courses (17 credits):
MUS 466 Internship in Music  
MUS 843 Seminar in Piano Pedagogy  
MUS 849 Piano Performance  
MUS 850A Piano  

(3) Replace item 2. with the following:
Complete 2 or 3 credits in music theory at the 800 level or above.

(4) Renumber items 4. and 5. to 5. and 6. respectively.

(5) Add the following item 4.:
Complete 4 credits from the following:
MUS 413 Keyboard Literature to the Mid-19th Century  
MUS 414 Keyboard Literature since the Mid-19th Century  
MUS 465 Music in Early Childhood  
MUS 496 Your Music Business  

Effective Fall 2017.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

MUS 830 Research Methods and Materials in Music 3
MUS 856 Chamber Music 1 or 2
MUS 864 Research in Music Education 3

Effective Fall 2017.

COLLEGE OF NATURAL SCIENCE

1. Change the name of the Disciplinary Teaching Minor in Biological Science, available for secondary teacher certification, in the College of Natural Science to Biology. The Teacher Education Council (TEC) approved this request at their April 3, 2017 meeting.

Students admitted to the minor prior to Spring 2018 will graduate with a Disciplinary Teaching Minor in Biological Science.

Students admitted to the minor Spring 2018 and forward will graduate with a Disciplinary Teaching Minor in Biology.

Effective Spring 2018.

2. Change the requirements for the Disciplinary Teaching Minor in Biology in the College of Natural Science. The Teacher Education Council (TEC) approved this request at their April 3, 2017 meeting.

a. Under the heading Biology replace the entire entry with the following:

One of the following groups of courses (9 or 10 credits):

(1) BS 161 Cell and Molecular Biology 3
    BS 162 Organismal and Population Biology 3
    BS 171 Cell and Molecular Biology Laboratory 2
    BS 172 Organismal and Population Biology Laboratory 2

(2) BS 181H Honors Cell and Molecular Biology 3
    BS 182H Honors Organismal and Population Biology 3
    BS 191H Honors Cell and Molecular Biology Laboratory 2
    BS 192H Honors Organismal and Population Biology Laboratory 2

(3) LB 144 Biology I: Organismal Biology 4
    LB 145 Biology II: Cellular and Molecular Biology 5

All of the following courses (14 to 16 credits):

IBIO 341 Fundamental Genetics 4
IBIO 355 Ecology 3
IBIO 355L Ecology Laboratory (W) 1
PSL 250 Introductory Physiology 4
    or
PSL 310 Physiology for Pre-Health Professionals 4
    or
PLB 301 Introductory Plant Physiology 3
BMB 200 Introduction to Biochemistry 4
    or
MMG 301 Introductory Microbiology 3

23 to 26

Effective Spring 2018.
2. 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 departments capstone course requirement.

Effective Summer 2018.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF NURSING

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

   a. Under the heading Admission add the following:

      8) 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:

      | NUR  | 922 | Wellness and Risk Reduction Behaviors | 3 |
      | NUR  | 923 | Self and Symptom Management in Chronic Illness | 3 |

      (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 SOCIAL SCIENCE

1. Establish a Minor in International Development in the College of Social Science. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 9, 2017 meeting.

a. Background Information:

The College of Social Science is changing its requirements for the bachelor’s degree by reducing the required credits from 30 to 15 to encourage its students to take additional majors or minors to enhance their major courses of study. It is anticipated that social science graduates will enroll in and complete academic programs in other colleges in greater numbers than previously because of the credit flexibility created by the new requirements.

The new requirements continue the College’s tradition of combining disciplinary training with a liberal arts education, with a focus on thematic areas that will help students prepare for employment, continuing education, or global citizenship after graduation. To accomplish this, the college will require every student to complete an approved 15-credit interdisciplinary minor and 3 credits of experiential learning. Each minor must include 9 credits in Social Science and 6 credits outside of the College. Because the minors are structured specifically to meet the College of Social Science’s liberal arts requirement and learning objectives, each is open only to undergraduate majors in the College. In the future, if capacity exists in this minor and pending approval of contributing units, we will open it to all university students.

The Minor in International Development is an enhanced integrative learning program of study designed to assist students in understanding the social context of international development. Students will acquire a basic understanding of how social scientists approach international development and how to integrate different approaches to the interrelationships of topics around international development. The minor is administered by the College of Social Science.

b. Academic Programs Catalog Text:

The Minor in International Development, administered by the College of Social Science, is an enhanced integrative learning program of study designed to assist students in understanding the social context of international development. Students will acquire a basic understanding of how social scientists approach international development and how to integrate different approaches to the interrelationships of topics around international development.

The minor is available as an elective to students who are enrolled in bachelor’s degree programs in the College of Social Science or James Madison College. With the approval of the department and college that administer the student’s degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor’s degree.

Students who plan to complete the requirements of the minor should consult an undergraduate adviser in the College of Social Science.

Requirements for the Minor in International Development

Complete a minimum of 15 credits from the following.

<table>
<thead>
<tr>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The following course (3 credits):</td>
</tr>
<tr>
<td>ANP 201 Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>2. One of the following courses (3 credits):</td>
</tr>
<tr>
<td>EC 310 Economics of Developing Countries</td>
</tr>
<tr>
<td>EC 410 Issues in the Economics of Developing Countries (W)</td>
</tr>
<tr>
<td>GEO 204 World Regional Geography</td>
</tr>
<tr>
<td>HST 390 History of International Relations</td>
</tr>
</tbody>
</table>
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

PLS 342 Comparative Political Economy 3
SOC 362 Developing Societies 3

3. Two of the following courses (6 credits):
   CSUS 215 International Development and Sustainability 3
   EEP 260 World Food, Population and Poverty 3
   GSAH 220 Global Interactions and Identities 3
   MC 430 Applied International Development 3
   PHL 358 Philosophy, Gender, and Global Development 3
   PHL 452 Ethics and Development 3
   WS 403 Women and Change in Developing Countries 3

4. The following capstone course (3 credits):
   ANP 325 Anthropology of the Environment and Development 3

Effective Fall 2017.

2. Establish a Minor in Environment and Health in the Department of Geography, Environment and Spatial Sciences. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 9, 2017 meeting.

   a. Background Information:

   The College of Social Science is changing its requirements for the bachelor’s degree by reducing the required credits from 30 to 15 to encourage its students to take additional majors or minors to enhance their major courses of study. It is anticipated that social science graduates will enroll in and complete academic programs in other colleges in greater numbers than previously because of the credit flexibility created by the new requirements.

   The new requirements continue the College’s tradition of combining disciplinary training with a liberal arts education, with a focus on thematic areas that will help students prepare for employment, continuing education, or global citizenship after graduation. To accomplish this, the college will require every student to complete an approved 15-credit interdisciplinary minor and 3 credits of experiential learning. Each minor must include 9 credits in Social Science and 6 credits outside of the College. Because the minors are structured specifically to meet the College of Social Science’s liberal arts requirement and learning objectives, each is open only to undergraduate majors in the College. In the future, if capacity exists in this minor and pending approval of contributing units, we will open to all university students.

   The Minor in Environment and Health aligns with the College of Social Science research focus on people and the environment. The minor is administered by the Department of Geography, Environment and Spatial Sciences.

   The Minor in Environment and Health enhances the education and training of students who are interested in issues relating to the environment and health, including students who wish to prepare themselves for advanced degree programs in environmental studies, health studies or careers in related fields. The minor brings courses from across the college together to provide students with an integrative learning experience that enhances their major degree program.

   b. Academic Programs Catalog Text:

   The Minor in Environment and Health, administered by the Department of Geography, Environment and Spatial Sciences, enhances the education and training of students who are interested in issues relating to the environment and health, including students who wish to prepare themselves for advanced degree programs in environmental studies, health studies or careers in related fields.
The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements of the minor should consult an undergraduate adviser in the College of Social Science.

**Requirements for the Minor in Environment and Health**

Complete a minimum of 15 credits from the following.

<table>
<thead>
<tr>
<th>CREDITS</th>
</tr>
</thead>
</table>
| 1. The following course (3 credits):
  GEO  151 Introduction to Human Geography | 3 |
| 2. One of the following courses (3 or 4 credits):
  ANP  370 Culture, Health and Illness
  EC  498 Economics of Health Care (W)
  GEO  235 Geography of Environment and Health
  HDFS  225 Lifespan Human Development in the Family
  HST  425 American and European Health Care since 1800 |
  SOC  451 Dynamics of Population | 4 |
| 3. Two of the following courses (6 credits):
  ANS  427 Environment Toxicology and Society
  EEP  260 World Food, Population and Poverty
  ENT  205 Pests, Society, and Environment
  EPI  390 Disease in Society: Introduction to Epidemiology and Public Health
  HNF  385 Public Issues in Nutrition and Health
  PHL  453 Ethical Issues in Global Public Health | 3 |
| 4. The following capstone course (3 credits):
  GEO  435 Geography of Health and Disease | 3 |

Effective Fall 2017.

3. Change the requirements for the Bachelor of Science degree in Environmental Geography in the Department of Geography, Environment and Spatial Sciences.

*The concentration in the Bachelor of Science degree in Environmental Geography is noted on the student’s academic record when the requirements for the degree have been completed.*

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

   (1) In item 3. a., add the following note:

   Students in the Atmospheric and Climate Sciences concentration must take MTH 132 or 152H

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

   Students in the Atmospheric and Climate Sciences concentration must take GEO 203 and may substitute GEO 201 for either GEO 206 or 306.

   (3) Delete items 3. f. and 3. g.

   (4) Add the following item 3. f.:

   One of the following:

   (1) Students not pursuing a concentration:
(a) Twelve additional credits in Geography courses including at least 6 credits at the 300-level and above and 6 credits at the 400-level.

(b) Nine additional credits in courses from the College of Agriculture and Natural Resources or the College of Natural Science at the 300-level and above.

(2) A concentration in Atmospheric and Climate Sciences: Atmospheric and Climate Sciences Concentration

1. All of the following courses (24 credits):
   - MTH 133 Calculus II 4
   - MTH 234 Multivariable Calculus 4
   - MTH 235 Differential Equations 3
   - CEM 141 General Chemistry 4
   - CEM 161 Chemistry Laboratory I 1
   - PHY 183 Physics for Scientists and Engineers I 4
   - PHY 184 Physics for Scientists and Engineers II 4

2. Four of the following courses (12 to 16 credits):
   - CSE 131 Technical Computing and Problem Solving 3
   - CSE 231 Introduction to Programming I 4
   - GEO 302 Climates of the World 3
   - GEO 303 Severe and Hazardous Weather 3
   - GEO 402 Agricultural Climatology 3
   - GEO 403 Dynamic Meteorology (W) 3
   - GEO 405 Weather Analysis and Forecasting 4
   - GEO 409 Global Climate Change and Variability 3
   - GLG 411 Hydrogeology 3
   - GLG 412 Glacial Geology and the Record of Climate Change 4
   - GLG 421 Environmental Geochemistry 4
   - IBIO 303 Oceonography 4

   Students in the concentration may use GEO courses in items c., d., and e. above towards the College of Social Science college distribution requirement. Students in the concentration are not required to complete the College of Social Science ARTS AND HUMANITIES distribution requirement.

Effective Spring 2018.

4. Change the requirements for the Bachelor of Science degree in Geographic Information Science in the Department of Geography, Environment and Spatial Sciences.

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

      (1) Replace item 3. e. delete the following course:
      GEO 428 Digital Terrain Analysis 4

      Add the following courses:
      GEO 428 Digital Terrain Analysis 3
      GEO 429 Geoprocessing 3

Effective Summer 2018.
5. Establish a **Graduate Certificate** in **American Studies** in the Department of History. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 6, 2017 meeting.

   a. **Background Information:**

   The American Studies program, both undergraduate and graduate, was placed under a moratorium in 2010 and slated for discontinuation, which has now occurred. This has left a serious gap in graduate training in the two departments served by and participating in this program, the Departments of English and History. These two departments are now separated into two colleges and it has been agreed that the Department of History should address this by developing a Graduate Certificate in American Studies. The Department of English is developing an undergraduate concentration in Popular Culture Studies that is currently going through academic governance. The new graduate certificate will be a benefit to students in both departments, as they will be able to expand the depth and breadth of the doctoral research at no additional costs to the departments or the university. The program will increase enrollments in graduate seminars in History and English, and students completing it will be more attractive as job candidates in an increasingly competitive employment market.

   There are historic and personnel reasons for offering this certificate at MSU. The American Studies program was founded in 1967 as a division within the Department of English, and university administrators often invoked it as an example of an interdisciplinary unit that embodied the university's land-grant philosophy. Before it was placed in moratorium, the American Studies graduate program was ranked in the top 10 in the United States and, at its peak in the 1990s, included some 90 graduate students. There are abundant and excellent faculty members who work in this area and the library resources are among the best in the nation.

   b. **Academic Programs Catalog Text:**

   The Graduate Certificate in American Studies, which is administered by the Department of History, is designed for students who wish to study the culture, history, and civilization of the United States from an inter- and multidisciplinary perspective. Students may pursue the program to complement disciplinary master's or doctoral degree programs such as English, History, Anthropology, African American and African Studies, Chicano/Latino Studies, Philosophy, Religious Studies, Theatre, Music, or History of Art. Students who are enrolled in the program explore the techniques, materials, and perspectives of American studies, American history, and American literature, as well as other related disciplines or thematic units.

   The certificate is available as an elective to students who are enrolled in master's and doctoral programs at Michigan State University. Students must meet the requirements of the certificate specified below, in addition to the requirements for the student's primary degree program.

   The students program of study must be approved the Graduate Chairperson in the Department of History.

   **Requirements for the Graduate Certificate in American Studies**

   Students must complete a minimum of 12 credits, of which 6 credits must come from units other than the student's primary degree program. Students pursuing a dual degree, 6 credits must come from units other than the student's two degree programs.

   **CREDITS**

   1. Complete one of the following courses (3 credits):
      
      | Course | Title | Credits |
      |--------|-------|---------|
      | HST 800 | Historiography of the United States to 1865 | 3 |
      | HST 801 | Historiography of the United States since 1865 | 3 |
      | HST 807 | Readings in Early American and U.S. History | 3 |

   2. Complete one of the following courses (3 credits):
      
      | Course | Title | Credits |
      |--------|-------|---------|
      | ENG 818 | Studies in Genre and Media | 3 |
3. Complete 6 credits in coursework from English, History, Anthropology, African American and African Studies, Chicano/Latino Studies, Philosophy, Religious Studies, Theatre, Music, or History of Art. A list of approved courses is available in the Department of History. Courses, if appropriate, may be used from other departments with approval of the Graduate Chairperson.

Effective Fall 2017.

6. Establish a Bachelor of Arts degree in Global History in the Department of History. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 9, 2017 meeting.

a. Background Information:

The Bachelor of Arts degree in Global History is intended to serve students interested in history whose interests lie in areas of the world where the primary language is not English. The degree will incorporate study of a language into the major as well as enabling and requiring students to concentrate on an area of the world other than the United States. The major will associate an appropriate area studies minor into the requirements. The degree program should advance the university’s liberal learning goal of “global and cultural diversity within historical, artistic, and societal contexts” by allowing students to develop wide knowledge of world history and deep knowledge of the history, language and culture of one area. It should appeal especially to students who intend to pursue careers in which knowledge of the rest of the world is an advantage, in government, in the military, in non-governmental organizations, and the like. As of Summer 2014, the existent History major no longer requires students to demonstrate a second-year competency in a foreign language. This change was to accommodate students not interested in studying a foreign language. However, for students interested in careers that involve knowledge of other countries, knowledge of a relevant language is important and the requirements include second-year competency in a foreign language.

Michigan State has the expertise in all the relevant areas – history, languages, areas studies – to permit the creation of an excellent program in global history.

b. Academic Programs Catalog Text:

Requirements for the Bachelor of Arts Degree in Global History

1. The University requirements for bachelor’s degrees as described in the Undergraduate Education section of the catalog: 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Global History.

The University’s Tier II writing requirement for the Global History major is met by completing one of the following courses: History 481, 482, 483, 484, 485, 486, 487, 488, or 489. Those courses are referenced in item 3. below.

2. The requirements of the College of Social Science for the Bachelor of Arts degree.

3. The following requirements for the major:

a. The following course (3 credits):
HST 201 Historical Methods and Skills 3

b. Two of the following courses (8 credits):
HST 140 World History to 1500 4
HST 150 World History since 1500 4
HST 205 The Ancient Mediterranean and the Medieval World 4
HST 206 European History since 1500 4
HST 208 Introduction to African History, Culture and Society 4
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

HST 209 Traditional East Asia 4
HST 210 Modern East Asia 4
HST 211 Colonial Latin America 4
HST 212 National Latin America 4

c. Three courses at the 300-400 level focused on one of the following geographic areas: Africa, Asia, Europe, Latin America. The courses must be approved by the student’s academic advisor. (9 credits)
d. Two courses at the 300-400 level focused on a geographic area other than the area chosen in item c. above. The courses must be approved by the student’s academic advisor. (6 credits)
e. One 3-credit senior seminar course chosen from HST 481, 482, 483, 484, 485, 486, 487, or 488. The course must be related to the area of historical concentration chosen in item c. above. Completion of this requirement satisfies both the department’s Tier II writing and capstone requirement.
f. Completion of one experiential learning course, a history study abroad or study away course, an internship with a historical focus (HST 493), or an additional senior seminar course focused on any area of the world or topic not used in fulfillment of requirement e. above. The course must be approved by the student’s academic advisor. (3 credits)
g. Completion of an area studies minor appropriate to the geographical area of concentration referenced in requirement c. above. History courses taken in the minor may also be used to fulfill requirements in the major.
h. Second-year competency in a foreign language related to the geographical area of concentration reference in item c. above. This requirement may be satisfied by placing into a 300-level foreign language course based on a Michigan State University placement test.

Effective Fall 2017.

7. Change the requirements for the Bachelor of Arts degree in History Education. The Teacher Education Council (TEC) approved this request at its April 3, 2017 meeting.

a. Under the heading Requirements for the Bachelor of Arts Degree in History Education make the following changes:

(1) Delete item 7.
(2) Change item 6. to the following:

All of the following courses (20 or 21 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 150</td>
<td>Reflections on Learning</td>
<td>3</td>
</tr>
<tr>
<td>TE 250</td>
<td>Human Diversity, Power and Opportunity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>in Social Institutions</td>
<td></td>
</tr>
<tr>
<td>TE 302</td>
<td>Learners and Learning in Contexts – Secondary (W)</td>
<td>4</td>
</tr>
<tr>
<td>TE 407</td>
<td>Teaching Subject Matter to Diverse Learners – Secondary (W)</td>
<td>5</td>
</tr>
<tr>
<td>TE 408</td>
<td>Crafting Teaching Practice – Secondary (W)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Students whose teaching major and minor are in different subject matter are also required to complete the following course:</td>
<td></td>
</tr>
<tr>
<td>TE 409</td>
<td>Crafting Teaching Practices in the Secondary Teaching Minor</td>
<td>1</td>
</tr>
</tbody>
</table>

b. Delete the elementary certification option for the history education major.

Effective Fall 2017.
8. Change the requirements in the **Minor in Leadership of Organizations** in the School of Human Resources and Labor Relations.

   a. Under the heading **Requirements for the Minor in Leadership of Organizations** make the following changes:

   (1) In item 3. add the following course:

   REL 291 Special Topics in Religious Studies 3

   Change the note following item 3. to:

   Students who choose REL 291 or WRA 491 must obtain prior approval from the academic advisor to ensure content is specific to Leadership of Organizations.

   Effective Summer 2017.

9. Change the requirements for the **Bachelor of Science** degree in **Sociology**.

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

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

   SOC 241 Social Psychology 3

   Add the following course:

   SOC 214 Social Inequality 3

   (2) In item 3. b. delete the following course:

   SOC 330 Social Stratification 3

   (3) Add the following item 5.:

   Complete 1 credit of experiential learning which can be satisfied through one of the following courses that is connected to a 300-400 level sociology course:

   SOC 496 Individual Readings 1
   SOC 497 Individual Research 1
   SOC 498 Sociology Internship 1

   Enrollment in SOC 496 must be connected to participation in either a study abroad program or study away program.

   Effective Fall 2017.
COLLEGE OF VETERINARY MEDICINE

1. 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) approved 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):

      - **PHM 819 Principles of Drug-Tissue Interactions** 2
      - **PHM 822 Academic and Research Integrity** 1
      - **PHM 830 Experimental Design and Data Analysis** 3
      - **PHM 832 Applied Integrative Pharmacology Laboratory** 3
      - **PHM 895 Applied Project in Integrative Pharmacology** 3 to 6
      or
      - **PHM 980 Problems** 2

      (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

INSTITUTE OF AGRICULTURAL TECHNOLOGY

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.
Practical Spanish language and culture 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.
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.
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.
Leadership development, styles and evaluation in the agriculture and natural resources industries.
SA: AEE 110, AEE 111
Effective Fall 2017

COLLEGE OF ARTS AND LETTERS

AIIS 490  Independent Study
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.
Special project, directed reading and research arranged by an undergraduate student and a faculty member in areas supplementing regular course offerings.
Effective Fall 2017

AIIS 491  Topics in American Indian and Indigenous Studies
Spring of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
An upper-level topics course, based on the expertise of the instructor, focusing on American Indian and other Indigenous peoples, including – but not limited to – issues related to culture, knowledge, language, governance, colonization, sovereignty, and ongoing revitalization efforts.
Effective Fall 2017

AIIS 493  Internship in American Indian and Indigenous Studies
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: Acquaintance with issues relevant to working with American Indian and Indigenous communities. R: Approval of department.
Supervised pre-professional field experience in the arts and humanities working with an American Indian or Indigenous elder, community, government, organization, agency, or business.
Effective Fall 2017
PART II – NEW COURSES

AL 492A  Capstone Seminar in Interdisciplinary Humanities  (W)  Spring of every year. 3(3-0)  P: Completion of Tier I Writing Requirement  R: Open to seniors in the Interdisciplinary Humanities Major or approval of college.  
Capstone experience drawing together various perspectives in arts and humanities.  
Nature of humanities and arts in general. Integration of students’ diverse courses of study.  
Effective Spring 2017

DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS

CSD 994  Research Practicum in Communicative Sciences and Disorders  Fall of every year. Spring of every year. Summer of every year. 1(0-2) A student may earn a maximum of 12 credits in all enrollments for this course. RB: CSD 803 or concurrently  R: Approval of department.  
REINSTATEMENT  Individual research under faculty supervision.  
Request the use of the Pass-No Grade (P-N) system.  
SA: ASC 994  
Effective Fall 2017

DEPARTMENT OF COMMUNITY SUSTAINABILITY

CSUS 221  Seminar in Environmental and Sustainability Careers  Spring of every year. 1(1-0)  R: Open to students in the Environmental Studies and Sustainability Major or approval of department.  
Societal value of, and opportunities in, environment and sustainability careers. Career planning, including engagement with employers and alumni.  
Effective Spring 2018

DEPARTMENT OF FAMILY AND COMMUNITY 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 through discussion and hands-on experience.  
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

DEPARTMENT OF HISTORY

HST 225  Law, History and Society in the United States  Spring of every year. 3(3-0)  
Legal history of the United States. How law shapes and is shaped by culture and society.  
Effective Fall 2017

HST 295  The Nazis  Fall of every year. Spring of every year. 3(3-0)  
Genesis of National Socialism and its trajectory as a political movement and dictatorship.  
Life in the Third Reich. Regime’s military and genocidal aims. Role of Adolf Hitler.  
Effective Fall 2017
DEPARTMENT OF KINESIOLOGY

KIN 941  Motivational Processes in Sport and Exercise
Fall of odd years. 3(3-0) P: KIN 840 or approval of department RB: Previous graduate coursework in sport/exercise psychology, health promotion, or general psychology. R: Open to graduate students in the Department of Kinesiology or approval of department.
Motivational processes in sport and exercise settings. Antecedents and consequences of motivated behavior from theoretical, research, and application perspectives. Participation motivation in sport, intrinsic/extrinsic motivational orientations, achievement goals, and contemporary theories of exercise motivation.
Effective Fall 2017

KIN 960  Issues in Motor Behavior
Spring of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: KIN 860
REINSTATEMENT
Selected issues in motor development, motor learning, adapted physical education, and related fields of study.
SA: PES 960
Effective Fall 2017

MSU COLLEGE OF LAW

LAW 617E  Wrongful Convictions Seminar
Fall of every year. 0 to 6 credits. RB: LAW 616B and LAW 616C R: Open to Law students or law advanced students or law lifelong students or law non-degree students.
The causes, recurring features, and consequences of wrongful convictions for the criminal justice system, with a focus on the unique role of the prosecutor.
Effective Fall 2017

DEPARTMENT OF LINGUISTICS AND GERMANIC, SLAVIC, ASIAN AND AFRICAN LANGUAGES

ARB 360  Arabic Language and Society
Fall of every year. 3(3-0) P: (ARB 202) and completion of Tier I writing requirement
Historical, social, linguistic and cultural developments in the Arabic-speaking world as revealed in textual material in Arabic, including literature, essays, and film. Taught in Arabic and English.
Effective Fall 2017

LLT 306  Methods of Teaching Adult and Community English to Speakers of Other Languages
Fall of every year. 3(3-0) RB: LIN 200 and (LLT 346 or concurrently) and (LLT 361 or concurrently)
Methods for teaching English as second language to adult learners in a variety of domestic and international contexts. Focus on communicative and task-based methods involving both oral and written skills. Objective writing, lesson planning and execution.
Effective Fall 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.
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
DEPARTMENT OF MEDIA AND INFORMATION

MI 327  Advanced Concept Design for Games, Film, and TV  
Spring of every year. 3(2-2) P: MI 227 R: Open to students in the Department of Media and Information or in the Game Design and Development Minor or in the Fiction Filmmaking Minor.  
Advanced topics in generating concept art and design for games, films, and animations.  
Effective Fall 2017

MI 846  Game and Film Design Studio II  
Spring of every year. 3(3-0) RB: MI 839 R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.  
Design principles for the creation of transmedia (games, film, websites, etc.). Design and development studio course focused on the creation of fictional storytelling projects across media projects.  
Effective Fall 2017

COLLEGE OF NURSING

NUR 922  Wellness and Risk Reduction Behaviors  
Fall of even years. 3(3-0) R: Open to graduate students in the College of Nursing.  
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 graduate students in the College of Nursing.  
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
PART III – COURSE CHANGES

COLLEGE OF ARTS AND LETTERS

DH 285  Introduction to Digital Humanities
Fall of every year. 3(3-0) R: Open to undergraduate students in the College of Arts and Letters. Critical technology theory and practice. Critique and analysis of technology. Production and creativity with digital tools.
SA: AL 285
Effective Fall 2017 Effective Spring 2018

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

GEO 428  Digital Terrain Analysis
Fall of even years. Fall of odd years. 4(3-2) 3(2-2) P: GEO 325 Theoretical and technical issues of collection, management, analysis, and display of terrain data. Application of photogrammetry, geographic information systems, and cartography.
Effective Fall 2017 Effective Summer 2018

DEPARTMENT OF HISTORY

HST 301  Colonial America: Three Worlds Meet
Indigenous-European Encounters in North America
Fall of every year. 3(3-0) Frontiers among Native American, African American, and Euroamerican societies and cultures from the late sixteenth to the mid-eighteenth century. Roots and progress of European, especially British, colonization in North America and the West Indies to 1750. European-Indigenous encounters and long-term perspectives on Indigenous and European contact: expectations, stereotypes and mythologies about the Indigenous peoples of North America and Africa within expanding slave systems. Indigenous roles in settler colonial societies in the Caribbean, New France, New England and the Colonial South.
Effective Fall 2014 Effective Summer 2018

HST 302  Revolutionary America
Spring of every year. 3(3-0) American Revolution, creation of the U.S. Constitution, social and political construction of race, slavery and freedom in the early republic. The American Revolutionary era in an international context, 1763-1826. Liberty and equality in a world of empires, republics and slavery. Role of gender, race and class in defining the meaning of the revolution. The U.S. Constitution. Early American diplomacy in transition from colony to nation.
Effective Fall 2014 Effective Fall 2017

HST 303  Union to Disunion
The Young American Republic
Fall of every year. 3(3-0) Economic, social and political changes from 1800 to 1860 that set the stage for Civil War. Indian removal, women’s involvement in social reform and westward expansion. Issues of race, class and gender. Republican ideology and the expansion of capitalism. Rise of political democracy in the United States, 1820-1850. Emergence of a market economy and industrialization. Movements by laborers, women, African Americans, immigrants and Native Americans to expand rights. Religious and cultural change. Sectional conflict between North and South. Westward expansion, Oregon Trail, Gold Rush.
Effective Fall 2014 Effective Summer 2018
HST 304  The American Civil War
The Civil War Era
Fall of every year. Spring of every year. Summer of every year. 3(3-0)
Conflict between the North and South from the 1830s to the end of Reconstruction.

HST 305  The Making of the Modern United States
Fall of every year. Spring of every year. 3(3-0)

HST 366  Southeast Asia in the Age of Empire
Modern Southeast Asia
Spring of even years. 3(3-0)

DEPARTMENT OF KINESIOLOGY

KIN 101N  Introduction to Aquatic Paddle Sports
Intro to Stand-up Paddleboarding, Kayaking & Canoeing
Fall of every year. Summer of every year. 1(0-2) RB: (KIN 101A) or Equivalent Skills R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101-108 and KIN 111-118.
Learning to kayak, stand-up paddleboard and canoe.
Request the use of the Pass-No Grade (P-N) system.
Effective Summer 2015 Effective Fall 2017

MSU COLLEGE OF LAW

LAW 501E  Secured Transactions
Fall of every year. Spring of every year. Summer of every year. 2(2-0) 0 to 6 credits. P: LAW 500D and LAW 500E R: Open to students in the MSU College of Law. R: Open to Law students or law advanced students or law lifelong students or law non-degree students in the MSU College of Law. This course covers the process of financing the sale of goods. Article 9 of the Uniform Commercial Code - Secured Transactions will be the focus of the course. Process of financing the sale of goods. Article 9 of the Uniform Commercial Code - Secured Transactions focus. SA: DCL 240
Effective Spring 2006 Effective Summer 2017
LAW 530J  Advocacy
Fall of every year. Spring of every year. Summer of every year. 0 to 4 credits. P: LAW 530D or LAW 530E  R: Open to Law students or master's of law students or law lifelong students or law non degree students.  Drafting an appellate brief and presenting a simulated oral argument.  SA: LAW 500K  Effective Fall 2011 Effective Fall 2017

LAW 533J  Patent Application Preparation
Fall of every year. 2 to 4 credits. 0 to 6 credits. P: (LAW 533K or concurrently) or (LAW 533V or concurrently) R: Open to students in the MSU College of Law.  The course covers the structure and methodology for preparing a universal patent application suitable for filing patents throughout the world.  SA: DCL 556  Effective Spring 2006 Effective Summer 2017

DEPARTMENT OF LINGUISTICS AND GERMANIC, SLAVIC, ASIAN AND AFRICAN LANGUAGES

ESL 220  AAE 220  English Grammar and Composition for Non-Native Speakers of English
Fall of every year. Spring of every year. Summer of every year. 6(6-0) A student may earn a maximum of 12 credits in all enrollments for this course. P: Designated score on English Language Center test  Systematic review of English grammar. Intensive and extensive writing of English.  SA: ENG 093 SA: ENG 093, ESL 220  Effective Summer 2011 Effective Summer 2018

ESL 221  AAE 221  English Composition for Non-Native Speakers of English
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: Designated score on English Language Center test  Intensive and extensive writing in English for academic purposes.  SA: ENG 095 SA: ENG 095, ESL 221  Effective Summer 2011 Effective Summer 2018

ESL 222  AAE 222  Listening and Speaking for Academic Purposes for Non-Native Speakers of English
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: Designated score on English Language Center test  Improvement of oral English skills for academic purposes.  SA: ENG 092 SA: ENG 092, ESL 222  Effective Summer 2011 Effective Summer 2018

ESL 223  AAE 223  Reading for Academic Purposes for Non-Native Speakers of English
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: Designated score on English Language Center test  Study of English for students needing a reading knowledge of English for academic purposes  SA: ENG 094 SA ENG 094, ESL 223  Effective Summer 2011 Effective Summer 2018
ESL 291
AAE 291
Special Topics in Academic English
On Demand. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. RB: ESL 094 R: Approval of department.
Special topics supplementing regular course offerings.
Request the use of the Pass-No Grade (P-N) system.
SA: ESL 291
Effective Fall 2014 Effective Summer 2018

ESL 491
AAE 491
Advanced Special Topics in Academic English
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. RB: ESL 094 R: Approval of department.
Special topics supplementing regular course offerings
Request the use of the Pass-No Grade (P-N) system.
SA: ESL 491
Effective Fall 2015 Effective Summer 2018

LLT 496
Practicum in Adult English as a Second Language Teaching
Spring of every year. 3(3-0) P: LLT 346 and LLT 307 and (LLT 361 or concurrently) P: LLT 346 and LLT 306 and (LLT 361 or concurrently) R: Open to undergraduate students.
Practical experience in adult ESL teaching. Classroom observations, tutoring, teaching demonstrations, lesson planning, and materials development.
Effective Fall 2014 Effective Fall 2017

LYMAN BRIGGS COLLEGE

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

DEPARTMENT OF MEDIA AND INFORMATION

MI 220
Methods for Understanding Users
Fall of every year. 3(3-0)
Basics of user research methods, such as interviews, surveys, content analysis, and focus groups. Methods to generate design ideas, solve design problems, and communicate the results.
Effective Fall 2016 Effective Fall 2017

MI 820
Theories of Media and Information
Fall of every year. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Classic and contemporary theories of communication with special emphasis on applications to telecommunication, extant and emerging media, and technology. Classic and contemporary theories of communication and information with special emphases on applications to current and emerging media, and information and communication technologies viewed from a socio-technical perspective.
SA: TC 820
Effective Fall 2015 Effective Fall 2017
MI 830  Foundations of Serious Games  
Spring of every year. 3(3-0) R: Open to students in the Educational Technology Major or in the Educational Technology Graduate Certificate or in the Serious Game Design and Research Certificate or in the Media and Information Major or approval of department.  R: Open to students in the Media and Information Major or in the Serious Game Design and Research Certificate or in the Educational Technology Major or in the Educational Technology Graduate Certificate or approval of department.  
Rationales, principles, processes, and pedagogies for serious game design. Applications of serious game design.  
SA: TC 830  
**Effective Fall 2015 Effective Fall 2017**

MI 831  Theories of Games and Interaction Design  
Fall of every year. 3(3-0) R: Open to students in the Educational Technology Major or in the Educational Technology Graduate Certificate or in the Serious Game Design and Research Certificate or in the Media and Information Major or approval of department.  R: Open to students in the Media and Information Major or in the Serious Game Design and Research Certificate or in the Educational Technology Major or in the Educational Technology Graduate Certificate or approval of department.  
Theories of interaction in games and other mediated contexts including communication, learning, health, global and local development, and social justice to inform the design of social systems, games and other interactive media products.  
SA: TC 831  
**Effective Fall 2015 Effective Fall 2017**

MI 839  Implementing Interactivity  
Game and Film Design Studio I  
Fall of every year. 2(2-2) 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.  
Foundational visual design principles and theories for interactivity. Implementation of user interfaces. Current industry practices. Design principles for the creation of transmedia (games, film, websites, etc.) Design and development studio course focused on the creation of fictional storytelling projects across media projects.  
SA: TC 839  
**Effective Fall 2015 Effective Fall 2017**

MI 841  Understanding Users  
Fall of every year. 3(3-0) RB: Direct experience with the creative process in interactive media RB: Direct experience with the creative process in interactive media. R: Open to students in the Educational Technology Major or in the Educational Technology Graduate Certificate or in the Serious Game Design and Research Certificate or in the Media and Information Major or approval of department.  R: Open to students in the College of Communication Arts and Sciences or in the Serious Game Design and Research Certificate or in the Educational Technology Major or in the Educational Technology Graduate Certificate or approval of department.  
Methods of user centered media and interaction design. Iterative cycles of user and product conceptualization. Methods of user-centered research to support game, media and interaction design. Iterative cycles of user and product conceptualization.  
SA: TC 841  
**Effective Fall 2015 Effective Fall 2017**

MI 842  Design and Development of Media Projects  
Spring of every year. 3(2-2) RB: Strongly recommended to be taken in final or near-final semester of graduate studies, so that majority of graduate degree program course work has already been completed and can serve as relevant background. R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.  
Team projects in Human Computer Interaction and Media and Information Management. Proposal development, team building, project management and workflow methods.  
SA: TC 842  
**DELETE COURSE**  
**Effective Fall 2017**
PART III – COURSE CHANGES

MI 844  Interaction Design
Spring of every year. 3(2-2) 3(3-0) RB: Basic familiarity with computers and Internet. RB: MI 841 R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Design of user interactions in information and media systems. Prototyping and presentation tools. Example topics include information architecture, task analysis, use cases, wire frames, scenarios.
SA: TC 844
Effective Fall 2015 Effective Fall 2017

MI 845  Human-Computer Interaction
Interactive Usability and Accessibility: Design and Evaluation
Spring of every year. 3(3-0) RB: MI 844 R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Principles and theories of how humans and technical systems interact in traditional media, networked environments, social and mobile computing, virtual environments and information appliances. Principles and theories of usability and accessibility in interactive media, social and mobile computing, virtual environments and information appliances. Approaches to design and evaluation.
SA: TC 845
Effective Fall 2015 Effective Fall 2017

MI 850  Media and Information Policy
Spring of every year. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Analysis of major public and private media and information policies, including Internet governance. Applying concepts and data from law, political science, economics, communication, technology and general social science. Discusses major public and private media and information policies, including Internet governance, and their relevance and implications for businesses, professionals in the field, and users of advanced communications. Applies concepts and data from media and information studies, management, technology, law, and political science.
SA: TC 810, TC 850
Effective Fall 2015 Effective Fall 2017

MI 851  Understanding Social Media
Understanding and Managing Social Media
Spring of every year. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Overview of social media applications and services and their effects on individuals, organizations, and society. Overview of social media applications and services, social media history, social media affordances, effects on individuals, organizations, and society, and best practices for the management and study of social media.
SA: TC 851
Effective Fall 2015 Effective Fall 2017

MI 852  Economic Structure of Telecommunication Industries
Media and Information Economics
Fall of every year. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Economic aspects of telecommunication and information industries. Emphasis on market structure, conduct, performance. Content diversity, new technologies, recent regulatory policies, and antitrust. Economic dynamics of the digital economy and its implications for businesses and managers. Emphasis on traditional and new media industries, including Internet-based media, mobile communications, social media, and information industries.
SA: TC 852
Effective Fall 2015 Effective Fall 2017
PART III – COURSE CHANGES

MI 854  Economics of Media Markets and Strategies
Spring of odd years. 3(3-0) RB: MI 852 or concurrently R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Conceptual tools and analytical perspectives on economic forces and incentives underlying structure, conduct, and responses to new technologies in media markets.
SA: TC 854
DELETE COURSE
Effective Fall 2017

MI 861  Information Networks and Technologies
Media and Information Technologies in Organizations
Fall of every year. 3(3-0) RB: Academic or professional background in telecommunication field. R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Fundamental characteristics, components, standards and applications of information networks and services. Local and wide area network technologies, fundamentals of the Internet, and private network technologies and services from a management perspective. Applications of media and information technologies in business settings. Implications for management of information technologies derived from an examination of effects of media and information technologies from a socio-technical perspective.
SA: TC 861
Effective Fall 2015 Effective Fall 2017

MI 862  Information Networks in Organizations and Commerce
Managing Digital Enterprises
Spring of every year. 3(3-0) RB: MI 861 or concurrently RB: MI 861 R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Design and management of electronic commerce strategies and the telecommunications infrastructure. Impact of information and communication technology on organizations and markets. History and current status of e-commerce, e-commerce strategies and approaches, and new directions in e-commerce. Challenges of developing and marketing an online commerce site.
SA: TC 862
Effective Fall 2015 Effective Fall 2017

MI 875  Information and Communication Technology for Development
Information and Communication Technology and Development
Spring of every year. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Information and communication technology in developing areas, cases studies, implementation, International and domestic contexts. Information and communication technology in developing areas, cases studies, design and implementation, and critical evaluation of the role of ICTs in development.
SA: TC 875
Effective Fall 2015 Effective Fall 2017

MI 877  Comparative and International Telecommunication
Global Media and Communications
Fall of even years. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.
Comparison of various national approaches to broadcasting, cable, satellite, telephone, mobile communications, and the Internet. Policy, economic, institutional and content issues. Interactions and media flows among countries, International governance bodies. Comparative and international perspectives on approaches to traditional and new media and their transformations by increased global connectivity. Addresses broadcasting, cable TV, satellite, fixed networks, mobile communications, and the Internet. Political economy of media, economic, institutional and content issues. Interactions and media flows among countries, International governance bodies.
SA: TC 877
Effective Fall 2015 Effective Fall 2017
MI 890  Independent Study
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the Department of Media and Information. Approval of department; application required. Individualized study under faculty supervision.
SA: TC 890
Effective Fall 2015 Effective Fall 2017

MI 891  Special Topics in Telecommunication
Special Topics in Media and Information
Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to graduate students in the College of Communication Arts and Sciences or approval of department. Contemporary issues. Topics vary. Contemporary topics; varied.
SA: TC 891
Effective Fall 2015 Effective Fall 2017

MI 893  Media and Information Internship
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the College of Communication Arts and Sciences or approval of department. Internships in media and information industries. Request the use of the Pass-No Grade (P-N) system.
SA: TC 893
Effective Fall 2015 Effective Fall 2017

MI 898  Master's Project
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to master's students in the Department of Media and Information. Approval of department; application required. Plan B individual project demonstrating master's level professional competence. Plan B individual project or poster demonstrating master's level professional competence. 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.
SA: TC 843, TC 898
Effective Fall 2015 Effective Fall 2017

MI 899  Master's Thesis Research
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the Department of Media and Information. Approval of department; application required. Master's thesis research. 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.
SA: TC 899
Effective Fall 2015 Effective Fall 2017
DEPARTMENT OF MICROBIOLOGY AND MOLECULAR GENETICS

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 Lyman Briggs Biomedical Laboratory Science Coordinate Major or in the Lyman Briggs Genomics and Molecular Genetics Coordinate Major or in the Lyman Briggs Microbiology Coordinate Major.
Clinical laboratory diagnostic procedures for the identification of pathogenic microbes.
SA: MIC 464
DELETE COURSE
Effective Spring 2018

COLLEGE OF NURSING

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

DEPARTMENT OF POLITICAL SCIENCE

PPL 806  Policy Evaluation
Fall of every year. Spring of every year. 3(3-0) P: PPL 805 R: Open to students in the Master of Public Policy or approval of department.
Theoretical foundations for evaluation research and the practical aspects of conducting evaluations.
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 Spring 2008 Effective Fall 2017

PPL 808  Policy Development and Administration
Fall of every year. Spring of every year. 3(3-0) P: PPL 807 RB: PPL 801 and PPL 802 and PPL 803 and PPL 805 R: Open to students in the Master of Public Policy or approval of department.
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 Spring 2008 Effective Fall 2017
PPL 813  Public Finance  
Fall of every year. Spring of every year. 3(3-0) P: PPL 805 R: Open to students in the Master of Public Policy or approval of department.
Economics of the public sector: how governments tax and spend revenues and the effects of these decisions on the economy.
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 Spring 2008 Effective Fall 2017

DEPARTMENT OF PSYCHIATRY

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