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:

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:

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
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 Bachelor of Science degree in Agriculture, Food and Natural Resources Education in the Department of Community Sustainability. The Teacher Education Council (TEC) approved this request at its September 14, 2015 meeting.

   a. Under the heading Requirements for the Bachelor of Science Degree in Agriculture, Food and Natural Resources Education make the following changes:

      (1) In item 3. e. change the credits of ‘TE 408’ from ‘6’ to ‘5’ and add the following course:

         TE 409 Crafting Teaching Practices in the Secondary Teaching Minor  1

   Effective Spring 2016.

2. Change the requirements for the Master of Science degree in Entomology in the Department of Entomology. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

   a. Under the heading Admission add the following statement as sentence three in the paragraph:

      Students without a general entomology background should complete ENT 404 Fundamentals of Entomology during their first year.

   b. Under the heading Requirements for the Master of Science Degree in Entomology replace the entire entry with the following:

      The master’s degree program in entomology is available under either Plan A (with thesis) or Plan B (without thesis). A total of 30 credits is required for the degree under Plan A or Plan B. The student’s program of study must be approved by either the student’s guidance committee (Plan A) or the student’s major professor (Plan B) and is planned on an individual basis by the student, the student’s major professor, and the student’s guidance committee.

      Requirements for Both Plan A and Plan B

      The student must:

      Complete at least 6 credits in entomology courses at the 400-level or above. More than half of the 30 credits required for the degree must be at the 800-level or above.

      Additional Requirements for Plan A

      1. Complete at least 6, but not more than 10 credits of Entomology 899.
      2. Successfully write and defend the master's thesis research with a departmental seminar.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

Additional Requirements for Plan B

1. Complete 3 to 5 credits of a research project in ENT 898 and present a departmental seminar.
2. Pass a final oral examination.

Effective Spring 2016.

3. Change the requirements for the Doctor of Philosophy degree in Entomology in the Department of Entomology. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.
   a. Under the heading Admission replace the entire entry with the following:

   A bachelor’s degree with a 3.00 grade–point average for the last two years of study is required for admission to the master’s program. The applicant need not have an undergraduate major in entomology for regular admission, but should have a background in biology, chemistry, mathematics, physics, and general entomology equivalent to that required of an undergraduate entomology major at Michigan State University. Students without a general entomology background should complete ENT 404 Fundamentals of Entomology during their first year. Graduate Record Examination General Test scores are required. Applicants with a good academic record but with deficiencies may be accepted on a provisional basis until deficiencies have been remediated. Collateral course work does not count towards the requirements for the degree.

   b. Under the heading Requirements for the Doctor of Philosophy Degree in Entomology replace the entire entry with the following:

   The student’s program of study is planned on an individual basis by the students, the student’s major professor, and the student’s guidance committee. Students must take 9 entomology course credits and complete a minimum of 24 credits of ENT 999 Doctoral Dissertation Research. Within 18 months of matriculation, students must pass a doctoral qualification examination which primarily consists of the defense of a dissertation proposal. Written and oral comprehensive examinations are required after completing course work, covering specific disciplinary areas related to thesis research and broader general knowledge of entomology and related sciences. After completing research, doctoral students are required to write and defend a dissertation with a departmental seminar.

   Effective Spring 2016.

4. Delete the curriculum and degree requirements for the Master of Arts degree in Interior Design and Facilities Management in the Department of Planning, Design and Construction. The University Committee on Graduate Studies (UCGS) provided consultative commentary to the Provost after considering this request. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Graduate Studies.

   No new students are to be admitted to the program effective Spring 2011. No students are to be readmitted to the program effective Spring 2011. Effective Spring 2016, coding for the program will be discontinued and the program will no longer be available in the Department of Planning, Design and Construction. Students who have not met the requirements for the Master of Arts Degree in Interior Design and Facilities Management prior to Spring 2016 will have to change their major.
5. Delete the curriculum and degree requirements for the Bachelor of Science degree in Plant Pathology in the Department of Plant, Soil and Microbial Sciences. The University Committee on Undergraduate Education (UCUE) provided consultative commentary to the Provost after considering this request. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Undergraduate Education.

No new students are to be admitted to the program effective Summer 2010. No students are to be readmitted to the program effective Summer 2010. Effective Spring 2015, coding for the program will be discontinued and the program will no longer be available in the Department of Plant, Soil and Microbial Sciences. Students who have not met the requirements for the Bachelor of Science degree in Plant Pathology through the Department of Plant, Soil and Microbial Sciences prior to Spring 2015 will have to change their major.

6. Delete the curriculum and degree requirements for the Bachelor of Science degree in Environmental Soil Science in the Department of Plant, Soil and Microbial Sciences. The University Committee on Undergraduate Education (UCUE) provided consultative commentary to the Provost after considering this request. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Undergraduate Education.

No new students are to be admitted to the program effective Summer 2010. No students are to be readmitted to the program effective Summer 2010. Effective Spring 2015, coding for the program will be discontinued and the program will no longer be available in the Department of Plant, Soil and Microbial Sciences. Students who have not met the requirements for the Bachelor of Science degree in Environmental Soil Science through the Department of Plant, Soil and Microbial Sciences prior to Spring 2015 will have to change their major.

### COLLEGE OF ARTS AND LETTERS

1. Change the requirements for the Graduate Certificate in Digital Humanities in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

   a. Under the heading Requirements for the Graduate Certificate in Digital Humanities replace the entire entry with the following:

   Students must complete 9 credits from the following:

   1. The following course (3 credits):
      AL 891 Special Topics in Arts and Humanities 3
      Students must enroll in the Digital Humanities Seminar section.

   2. Complete a minimum of 6 credits from the following:
      a. A digital humanities pedagogy experience which may be fulfilled through a teaching-related course. A specific, focused, supervised pedagogy project may also fulfill this requirement with approval from the College of Arts and Letters Associate Dean for Graduate Studies. The following courses may be used to fulfill this requirement:
         AL 861 Digital Humanities Pedagogy
         AL 881 Special Topics in Teaching with Technology in Arts and Humanities
         AL 891 Special Topics in Arts and Humanities
         Students who use AL 891 must enroll in the Practicum in Blending and Online Learning section.  
       b. A digital humanities project experience. The project may be fulfilled by participating in a creativity exploratory digital humanities project, completion of the digital cultural heritage fieldschool, completion of a digital humanities portfolio, or work as a Humanities, Arts, Science, and Technology Alliance and Collaboratory (HASTAC) scholar. The following courses may be used to fulfill this requirement:
         AL 863 Digital Humanities Research
         AL 865 Digital Humanities Methods Seminar

   Effective Spring 2016.
2. Change the requirements for the **Graduate Certificate in Museum Studies** in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

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

   a. Under the heading **Requirements for the Graduate Certificate in Museum Studies** make the following changes:

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

      AL 485  Foundations of Museum Studies    3

      Add the following course:

      AL 886  Fundamentals of Museum Studies    3

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

      AL 897  Practicum in Museum Studies    1 to 3

   Effective Spring 2016.

3. Change the requirements for the **Minor in Museum Studies** in the College of Arts and Letters.

   a. Under the heading **Requirements for the Minor in Museum Studies** make the following change:

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

      AL 497  Practicum in Museum Studies    1 to 3

   Effective Spring 2016.

4. Establish a **Bachelor of Fine Arts** degree in **Graphic Design** in the Department of Art, Art History, and Design. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its April 2, 2015 meeting.

   a. **Background Information:**

      The Bachelor of Fine Arts degree in Graphic Design will be a separate degree option from what is now available as a concentration in the Bachelor of Fine Arts degree in Studio Art. The concentration will be removed from the studio art degree.

      Within the Department of Art, Art History, and Design in the College of Arts and Letters, study in graphic design will be offered in three degree options. The Bachelor of Fine Arts in Graphic Design is the professional-oriented undergraduate degree, which is situated between graphic design course work of the Bachelor of Arts degree in Studio Art and the Master of Fine Arts in Studio Art degree. The Bachelor of Arts degree in Studio Art, with a concentration in graphic design is interdisciplinary study which introduces graphic design through a variety of lower level course work. The Master of Fine Arts degree in Studio Art provides the graduate terminal degree for the field.

      Michigan State University has a strong tradition of studio practice in graphic design, within the Department of Art, Art History, and Design. MSU graphic design alumni hold respected positions in the field across the country. Establishing this degree furthers the students’ competitiveness in the job market. The Bachelor of Fine Arts degree in Graphic Design clarifies a student’s professional preparation in graphic design. The varied expertise of the graphic design faculty, cutting-edge course offerings, and a required professional practice internship, ensures that the student will receive a complete undergraduate education in the field. The degree is the professional standard consistent with peer CIC institutions and national accreditation requirements.
Graphic design is the art of visual communication. Course projects range in concept, format, media, and collaborative opportunity, while enabling students to practice both traditional and digital tools. Students develop professional skills towards visual problem solving, and communicating to varying audiences.

b. **Academic Programs Catalog Text:**

The Bachelor of Fine Arts degree in Graphic Design, which is administered by the Department of Art, Art History, and Design, is a professional degree that prepares students through intensive, immersive, upper-level study in several areas within the discipline to be successful in the field of graphic design.

**Admission**

Students enrolled at Michigan State University are eligible to apply for the Bachelor of Fine Arts degree in Graphic Design if they:

1. have completed STA 360 and STA 365 and;
2. are in their second semester or later at Michigan State University or equivalent standing at another university, and have not yet earned their 30th credit in studio art.

To apply, students must submit an application consistent with the process outlined by the department. Applications will include a portfolio of graphic design produced in studio art course work taken to date at Michigan State University. Exceptions will be considered for transfer students. Applications are due by the end of the eighth week of the spring semester and decisions will be made in time for annual enrollment. Fall semester applications will be reviewed as warranted. Oral interviews may be requested. Students denied admission may reapply one additional time.

For further information, visit [www.art.msu.edu](http://www.art.msu.edu).

**Requirements for the Bachelor of Fine Arts Degree in Graphic Design**

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 Fine Arts degree in Graphic Design.

   The University's Tier II writing requirement for the Graphic Design major is met by completing Studio Art 492. That course is referenced in item 3. a. (1) below.

2. The requirements of the College of Arts and Letters for the Bachelor of Fine Arts degree.

3. The following requirements for the major:

   a. The following Studio Art courses (65 to 68 credits):

      (1) All of the following courses: Studio Art 110, 112, 113, 114, 160, 360, 365, 460, 492, and 492A (28 credits).

      The completion of Studio Art 492 and 492A satisfies the capstone course requirement for the Graphic Design major.

      (2) Four of the following courses including at least one course from each of the following three areas (12 credits):

      **Two-Dimensional Area**
      Painting: Studio Art 320
      Printmaking: Studio Art 330, 335

      **Three-Dimensional Area**
      Ceramics: Studio Art 340, 345
      Sculpture: Studio Art 350, 351, 354, 355

      **Electronic Art and Intermedia and Photography Area**
      Photography: Studio Art 370
      Electronic Art and Intermedia: Studio Art 380

      (3) Five of the following Graphic Design electives: Studio Art 303, 462, 465, 466, 467, 468, and 491E (18 to 20 credits).

      (4) Completion of a service learning component through enrollment in Studio Art 493 or 494 (3 or 4 credits).
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

(5) Studio Art electives: Additional credits in Studio Art courses at the 300–400 level as needed to meet the requirement of at least 65, but not more than 68, credits in courses in the major.

b. Art History and Visual Culture: Four courses including the following (12 to 14 credits):
   (1) History of Art 101 and 102 (6 credits).
   (2) At least one course that includes the post-World War II period. History of Art 240, 252, 261, 450, 452, 474 or other applicable History of Art courses approved by the advisor (3 or 4 credits).
   (3) One additional course in History of Art at the 200 or 400-level (3 or 4 credits).

Effective Spring 2016.

5. Change the requirements for the Bachelor of Arts degree in Religious Studies in the Department of Religious Studies.

   The concentration in the Bachelor of Arts degree in Religious Studies 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 Arts Degree in Religious Studies make the following changes:

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

      The University’s Tier II writing requirement for the Religious Studies major is met by completing Religious Studies 410 or 412 or 413 or 420 or 430 or 432 or 435 or 441 or 451 or 460 or 461 or 465 or 471 or 480 or 485 or 490 or 491 or 499. Those courses are reference din item 3. e. below.

      (2) In item 3. a. add the following course:

      REL 185 Nonprofits and Religion 3

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

      REL 385 Religion, Health, and Healthcare 3

      (4) In item 3. e. add the following course:

      REL 461 South Asian Religions and Bollywood Film (W) 3

      (5) Change the requirements for the Nonprofit Leadership Concentration to the following:

      Complete 12 to 16 credits from the following:
      1. At least one of the following courses (3 credits):
         REL 185 Nonprofits and Religion 3
         REL 210 Religion and the Environment 3
         REL 385 Religion, Health, and Healthcare 3
      2. All of the following courses (7 to 10 credits):
         REL 485 Religion and Nonprofit Leadership (W) 3
         REL 493 Religious Studies Internship 1 to 4
         REL 499 Senior Thesis or Project 3

      Effective Summer 2016.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

   a. Under the heading Requirements for the Minor in Religious Studies make the following changes:
      (1) In item 1. add the following course:
           REL 185 Nonprofits and Religion 3
      (2) In item 2. add the following course:
           REL 380 New Religions 3
   Effective Spring 2016.

7. Change the requirements for the Bachelor of Arts degree in Professional Writing in the Department of Writing, Rhetoric and American Cultures.
   a. Under the heading Requirements for the Bachelor of Arts Degree in Professional Writing make the following changes:
      (1) In item 1. replace paragraph two with the following:
           The University’s Tier II writing requirement for the Professional Writing major is met by completing one of the following courses: Writing, Rhetoric and American Cultures 320, 331, or 370. Those courses are referenced in items 3. c. and 3. d. below.
      (2) Replace item 3. b. with the following:
           The following course (3 credits):
           WRA 455 Portfolio Seminar 3
           Credits earned in any of these courses may not be used to fulfill requirements in items 3. c. or 3. d.
      (3) In item 3. c. in the Digital and Technical Writing concentration delete the following course:
           WRA 425 Advanced Multimedia Writing 3
           Add the following course:
           WRA 420 Content Strategy 3
      (4) In item 3. c. in the Writing, Editing, and Publishing concentration delete the following courses:
           WRA 380 Managing Large Scale Publication Projects (W) 3
           WRA 470 Editing and Publishing 3
           Add the following courses:
           WRA 480 Publication Management I 3
           WRA 481 Publication Management II 3
      (5) In item 3. d. delete the following courses:
           WRA 370 Introduction to Grammar and Style in Professional Writing 3
           WRA 380 Managing Large Scale Publication Projects (W) 3
           WRA 470 Editing and Publishing 3
           Add the following courses:
           WRA 370 Introduction to Grammar and Editing (W) 3
           WRA 395 Writing Center Theory and Practice 3
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

WRA  480  Publication Management I                        3
WRA  481  Publication Management II                       3
WRA  491  Special Topics                                 1 to 4
WRA  499  International Research in Professional Writing 1 to 3

(6) Change the note following item 3. d. to the following:

One or two writing or design courses from outside WRA may be used with approval of the student’s academic advisor. Credits earned in any of these courses may not be used to fulfill requirements in items 3. b. or 3. c.

Effective Summer 2016.

COLLEGE OF EDUCATION

1. Change the requirements for the Doctor of Philosophy degree in School Psychology in the Department of Counseling, Educational Psychology and Special Education. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

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

   To be admitted to the doctoral program in school psychology, applicants must submit both the University application forms and applicable application fee, and must have:

   1. A bachelor’s degree in education or psychology, or in a related field. A master’s degree or a teaching certificate is not required, but evidence of experience working with children, youth, and families in school, community, agency, or research settings is desirable.
   2. A grade-point average of 3.0 or higher in the last two years of the bachelor’s degree program.
   3. A grade-point average of 3.5 or higher in courses taken at the master’s degree level or beyond.
   4. Professional goals and interests compatible with the program objectives and philosophy as evident in an applicant’s statement of Professional Goals and Experiences, as judged by the faculty.
   5. Strong personal recommendations from individuals who are knowledgeable about the applicant’s academic performance and ability to work effectively with people, as judged by the faculty.
   6. Satisfactory scores on the Graduate Record Examination General Test. This typically means scores in the above average range.
   7. Evidence of previous research experience such as a master’s thesis or scholarly paper, work on a research project, publication in a professional journal, or presentation at a professional conference.
   8. A writing sample.
   9. An on-campus, web, or equivalent interview.
   10. A completed Criminal Background Statement of Understanding Form.
   11. A resume or curriculum vita.

   Persons are admitted to the program once a year with enrollment starting fall semester. The deadline for submitting applications for admission is December 1st for the following fall semester.

   b. Under the heading Requirements for the Doctor of Philosophy Degree in School Psychology replace the entire entry with the following:

   The student must meet the requirements specified below. Students who hold an Educational Specialist or a Master of Arts degree in School Psychology may already meet some of these requirements. Student’s doctoral plans must be approved by faculty and be consistent with the following requirements.

   1. Educational Inquiry and Research. Complete 16 credits of course work which includes quantitative methods and research design as approved by the student’s guidance committee. Students must complete the following course in fulfillment of this requirement:

   CEP  995  Practicum in Research Design and Data Analysis 3
2. **Psychological Foundations.** Complete 15 credits of course work which includes history of psychology, development across the lifespan, social aspects of behavior, cognitive aspects of behavior, and biological bases of behavior as approved by the student’s guidance committee.

3. **Theoretical Foundations.** Complete 6 credits of course work which includes ethics and psychotherapy as approved by the student’s guidance committee.

4. **School Psychology.** Complete 45 credits of course work which includes assessment, intervention, consultation, behavior disorders, theoretical foundations of school psychology, and field based experience as approved by the student’s guidance committee.

5. **Family Elective.** Complete 3 credits of course work which includes parenting children with disabilities or family systems as approved by the student’s guidance committee.

6. **Internship.** Complete 9 credits in a field-based internship related to school psychology that must extend over a full calendar year and consist of at least 2,000 supervised clock hours of practice.

7. Successful completion and defense of the dissertation. Students may not earn more than 30 credits in CEP 999 Doctoral Dissertation Research, of which 24 credits are required.

Effective Spring 2016.

2. Change the requirements for the **Bachelor of Science** degree in **Kinesiology** in the Department of Kinesiology. The University Committee on Undergraduate Education (UCUE) approved this request at its September 10, 2015 meeting.

   a. Under the heading **Admission as a Junior** replace the entry with the following:

   **Admission**
   Admission to the major requires completion of at least 28 credits acceptable to the College with a cumulative university grade-point average of 2.0 or above and a minimum grade of 2.0 in each of the following courses: Chemistry 141, Kinesiology 216, Kinesiology 251, Mathematics 103, and Physiology 250.

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

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

   Students enrolled in the Kinesiology major leading to the Bachelor of Science degree in the Department of Kinesiology may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Chemistry 141 and 161, Kinesiology 251, and Physiology 250. The completion of Chemistry 161, and Kinesiology 251 satisfies the laboratory requirement. Chemistry 141 and 161, Kinesiology 251, and Physiology 250 may be counted toward both the alternative track and the requirements for the major referenced in item 2. a. below.

   (2) In item 2. a. change the total credits from ‘17’ to ‘18’ and delete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 231</td>
<td>3</td>
</tr>
</tbody>
</table>

   Add the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 251</td>
<td>4</td>
</tr>
</tbody>
</table>

   (3) In item 2. b. change the total credits from ‘15’ to ‘18’ and add the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 360</td>
<td>3</td>
</tr>
</tbody>
</table>

   (4) Change item 2. c. to the following:

   The following course (1 credit):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM 161</td>
<td>1</td>
</tr>
</tbody>
</table>

   (5) Delete item 2. e.
(6) Reletter items 2. f. and 2. g. to items 2. e. and 2. f. respectively.

Effective Fall 2016.

3. Change the requirements for the Bachelor of Science degree in Athletic Training in the Department of Kinesiology. The University Committee on Undergraduate Education (UCUE) approved this request at its September 10, 2015 meeting.

a. Change the heading Admission as a Junior to Admission. In the introductory paragraph add the following to the end of the first sentence: ‘and requires completion of at least 31 credits.’ In item 3, delete Physics 231 and replace with Kinesiology 251.

b. Under the heading Requirements for the Bachelor of Science Degree in Athletic Training make the following changes:

1. In item 1. replace paragraph two with the following:

   Students enrolled in the Athletic Training major leading to the Bachelor of Science degree in the Department of Kinesiology may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Chemistry 141 and 161, Kinesiology 251, and Physiology 250. The completion of Chemistry 161, and Kinesiology 251 satisfies the laboratory requirement. Chemistry 141 and 161, Kinesiology 251, and Physiology 250 may be counted toward both the alternative track and the requirements for the major referenced in item 2. a. below.

2. In item 2. a. change the total credits from ‘17’ to ‘18’ and delete the following course:

   PHY 231 Introductory Physics I 3

   Add the following course:

   KIN 251 Principles of Human Movement 4

3. Change item 2. c. to the following:

   The following course (1 credit):
   CEM 161 Chemistry Laboratory I 1

Effective Fall 2016.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF ENGINEERING

1. Change the requirements in the Bachelor of Science degree in Materials Science and Engineering in the Department of Chemical Engineering and Materials Science.

   The concentrations in the Bachelor of Science degree in Materials Science and Engineering are 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 Materials Science and Engineering make the following changes:

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

      MSE 425 Biomaterials and Biocompatibility 3

   Effective Spring 2016.

2. Change the requirements for the Minor in Materials Science and Engineering in the Department of Chemical Engineering and Materials Science.

   a. Under the heading Requirements for the Minor in Materials Science and Engineering make the following changes:

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

      MSE 451 Spectroscopic and Diffraction Analysis of Materials 3
      MSE 454 Ceramic and Refractory Materials 3
      MSE 477 Manufacturing Processes 3

      Add the following courses:

      MSE 474 Spectroscopic and Diffraction Analysis of Materials 3
      MSE 481 Ceramic and Refractory Materials 3

   Effective Spring 2016.

JAMES MADISON COLLEGE

1. Change the name of the Minor in Western European Studies to the Minor in European Studies in James Madison College.

   Students admitted to the minor prior to Spring 2016 will be awarded a Minor in Western European Studies.

   Students admitted to the minor Spring 2016 and forward will be awarded a Minor in European Studies.

   Effective Spring 2016.

2. Change the requirements for the Minor in European Studies in James Madison College.

   a. Under the heading Minor in European Studies replace the entire entry with the following:

      The student must meet the requirements specified below:

      1. Foreign Language Proficiency: The student must demonstrate proficiency in a European language at a level equivalent to the completion of four semesters of study at the university level. The results of the MSU foreign language placement test will be considered in determining whether or not the student has fulfilled this requirement.

      2. European Studies Courses: The student must complete a minimum of three courses totaling at least 12 credits selected from at least three of the following groups of courses:

         Classical Studies
         CLA 360 Ancient Novel in English Translation (W) 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLA 412</td>
<td>Senior Seminar: Greek and Roman Religion (W)</td>
<td>3</td>
</tr>
<tr>
<td>EC 306</td>
<td>Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>EC 340</td>
<td>Survey of International Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC 440</td>
<td>International Trade (W)</td>
<td>3</td>
</tr>
<tr>
<td>EC 441</td>
<td>International Finance (W)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 205</td>
<td>Topics in British Literatures</td>
<td>3</td>
</tr>
<tr>
<td>ENG 318</td>
<td>Readings in Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 426</td>
<td>Seminar in Drama or Performance Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENG 457</td>
<td>Seminar in 18th-Century British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 458</td>
<td>Seminar in 19th-Century British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 460</td>
<td>Seminar in Global and Postcolonial Literature</td>
<td>3</td>
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<tr>
<td>FRN 340</td>
<td>Introduction to Reading French Literature (W)</td>
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<tr>
<td>FRN 415</td>
<td>Introduction to French Studies I: Metropolitan France</td>
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<td>FRN 416</td>
<td>Introduction to French Studies II: Francophone Cultures</td>
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<td>FRN 425</td>
<td>Advanced Studies in French Language</td>
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<tr>
<td>FRN 445</td>
<td>Theme-Based Seminar</td>
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<td>FRN 447</td>
<td>Genre-Based Seminar</td>
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<tr>
<td>GRM 341</td>
<td>German Literature and Culture before 1918</td>
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</tr>
<tr>
<td>GRM 342</td>
<td>German Literature and Culture since 1918</td>
<td>3</td>
</tr>
<tr>
<td>GRM 435</td>
<td>18th and 19th Century German Literary Studies (W)</td>
<td>3</td>
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<tr>
<td>GRM 445</td>
<td>20th Century and Contemporary German Literary Studies (W)</td>
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<td>GRM 455</td>
<td>Major Themes in German Cultural History (W)</td>
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<tr>
<td>GRM 491</td>
<td>Special Topics in German Studies</td>
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<td>GRM 492</td>
<td>Capstone Project</td>
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<td>GEO 336</td>
<td>Geography of Europe</td>
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<tr>
<td>HST 332B</td>
<td>Europe in the Middle Ages 1000–1300</td>
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<td>HST 333</td>
<td>Europe in Crisis 1300–1450</td>
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<td>HST 334A</td>
<td>Renaissance and Reformation Europe</td>
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<tr>
<td>HST 334B</td>
<td>Europe in the Age of Absolutism</td>
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<td>HST 335</td>
<td>Europe in the Age of Revolution 1700-1870</td>
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<td>HST 336</td>
<td>Contemporary Europe 1870 to Present</td>
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<tr>
<td>HST 337</td>
<td>European Power, Culture, and Thought: Renaissance to Enlightenment</td>
<td>3</td>
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<tr>
<td>HST 338</td>
<td>European Power, Culture and Thought: The Modern Era</td>
<td>3</td>
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<td>HST 340</td>
<td>England and Its Culture to 1688</td>
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<td>HST 341</td>
<td>Modern Britain since 1688</td>
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<td>HST 347</td>
<td>Modern France</td>
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<td>HST 348</td>
<td>Modern Germany</td>
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<tr>
<td>HST 390</td>
<td>History of International Relations</td>
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<td>HST 392</td>
<td>History of the Holocaust</td>
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<tr>
<td>HST 412</td>
<td>Women in Modern European History</td>
<td>3</td>
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<tr>
<td>HST 414</td>
<td>World War II: Causes, Conduct and Consequences</td>
<td>3</td>
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<td>HST 415</td>
<td>The First World War</td>
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<tr>
<td>HST 452</td>
<td>Special Topics in European History</td>
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<tr>
<td>HST 482</td>
<td>Seminar in Medieval History (W)</td>
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<tr>
<td>HST 483</td>
<td>Seminar in Modern European History (W)</td>
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<tr>
<td>HA 101</td>
<td>Western Art from Paleolithic to Medieval Era</td>
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<tr>
<td>HA 102</td>
<td>Western Art from the Renaissance to Contemporary</td>
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</tr>
<tr>
<td>HA 209</td>
<td>Ancient Art</td>
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<tr>
<td>HA 210</td>
<td>Medieval Art</td>
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<tr>
<td>HA 230</td>
<td>Renaissance and Baroque Art</td>
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<td>HA 240</td>
<td>Modern Art</td>
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<tr>
<td>HA 401</td>
<td>Greek Art and Archaeology</td>
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<td>HA 402</td>
<td>Roman Art and Archaeology</td>
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<td>HA 410</td>
<td>Selected Topics in Medieval Art</td>
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<td>HA 430</td>
<td>Baroque Art in Italy and Spain</td>
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<tr>
<td>HA 446</td>
<td>Impressionism</td>
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<tr>
<td>HA 450</td>
<td>Selected Topics in Modern Art</td>
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### Italian

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ITL</td>
<td>Italian Culture and Civilization</td>
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#### James Madison College

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MC</td>
<td>Cultures and Politics in Comparative Perspective</td>
<td>4</td>
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<tr>
<td>MC</td>
<td>Classical Republicanism</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>Constitutionalism and Democracy</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>Social Theory and Social Relations</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>The Cold War: Culture, Politics and Foreign Policy</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>Regional Politics, Cooperation, and Conflict in Europe</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>State and Society in Comparative Perspective&lt;sup&gt;1&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>The Comparative Analysis of Foreign Policy&lt;sup&gt;1&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>European Security: Challenges and Strategies</td>
<td>4</td>
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<tr>
<td>MC</td>
<td>Encounters with Post-Communism</td>
<td>4</td>
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<tr>
<td>MC</td>
<td>Radical Challenges to Liberal Democracy</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>Beyond Liberal Democracy? New Directions in Political Theory&lt;sup&gt;4&lt;/sup&gt;</td>
<td>4</td>
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<tr>
<td>MC</td>
<td>Women and Power in Comparative Perspective&lt;sup&gt;1&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>Jews and Anti-Semitism&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>MC</td>
<td>Sexual Politics: Historical and Contemporary Perspectives&lt;sup&gt;1&lt;/sup&gt;</td>
<td>4</td>
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<tr>
<td>MC</td>
<td>Advanced Topics in Public Affairs&lt;sup&gt;1&lt;/sup&gt;</td>
<td>4</td>
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<tr>
<td>MC</td>
<td>Senior Seminar in International Relations (W)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>5</td>
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<tr>
<td>MC</td>
<td>Senior Seminar in Comparative Cultures and Politics (W)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>5</td>
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<tr>
<td>MC</td>
<td>Senior Seminar in Political Theory and Constitutional Democracy (W)&lt;sup&gt;1&lt;/sup&gt;</td>
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### Music

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUS</td>
<td>History of Western Music to 1750</td>
<td>3</td>
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<tr>
<td>MUS</td>
<td>History of Western Music since 1750</td>
<td>3</td>
</tr>
<tr>
<td>MUS</td>
<td>Music of the 18th Century</td>
<td>2</td>
</tr>
<tr>
<td>MUS</td>
<td>19th Century European–American Music Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS</td>
<td>20th Century European and American Music Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS</td>
<td>History of Opera</td>
<td>2</td>
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### Philosophy

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHL</td>
<td>Ancient Greek Philosophy</td>
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<tr>
<td>PHL</td>
<td>Modern Philosophy</td>
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<tr>
<td>PHL</td>
<td>Existentialism</td>
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<tr>
<td>PHL</td>
<td>Philosophy of Karl Marx</td>
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<tr>
<td>PHL</td>
<td>Aristotle Seminar</td>
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<tr>
<td>PHL</td>
<td>Seminar in Early Modern Philosophy</td>
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<tr>
<td>PHL</td>
<td>Hegel Seminar</td>
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<tr>
<td>PHL</td>
<td>Seminar in 19th Century Philosophy</td>
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<tr>
<td>PHL</td>
<td>Topics in European and Continental Philosophy</td>
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### Political Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PLS</td>
<td>Comparative Political Economy&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3</td>
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<tr>
<td>PLS</td>
<td>Politics of Europe and the European Union</td>
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<tr>
<td>PLS</td>
<td>Modern Political Philosophy</td>
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<tr>
<td>PLS</td>
<td>Seminar in Political Science (W)</td>
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### Portuguese

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PRT</td>
<td>Introduction to Literary Analysis (W)</td>
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### Religious Studies

<table>
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<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>REL</td>
<td>Magic and Mysticism: Western Esoteric Traditions and Practices</td>
<td>3</td>
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### Spanish

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPN</td>
<td>Cultural Readings and Composition (W)</td>
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<tr>
<td>SPN</td>
<td>Topics in Hispanic Culture</td>
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</tr>
<tr>
<td>SPN</td>
<td>Topics in Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPN</td>
<td>Special Topics in Spanish</td>
<td>3</td>
</tr>
</tbody>
</table>

4. Supervised Research Paper: The student must complete one of the following four options:
   a. Independent Study. A research paper on a topic related to Europe completed while enrolled in an independent study course of at least 3 credits.
   b. Overseas Study. A research paper completed while enrolled in a MSU overseas study program in Europe totaling at least 3 credits.
   c. Internship. A research paper on a topic related to Europe completed while enrolled in a field experience or internship course of at least 3 credits.
d. Capstone Course. A research paper on a topic related to Europe that is completed while enrolled in a capstone course of at least 3 credits.

1 To be counted toward the requirements for the Minor in European Studies, the content of this course must be specifically related to or focused on European Studies.

2 A student may receive credit for only one of the following courses, and only one of those courses may be used to satisfy the requirements for the Minor in European Studies: History 392 or James Madison College 387.

Effective Spring 2016.

LYMAN BRIGGS COLLEGE

1. Establish in Lyman Briggs College, in collaboration with the MSU College of Osteopathic Medicine, a 3 + 4 Option for selected Lyman Briggs College students to earn a baccalaureate degree. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its January 29, 2015 meeting. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its April 6, 2015 meeting.

a. Background Information:

Lyman Briggs College, in collaboration with the MSU College of Osteopathic Medicine, offers an opportunity for selected Lyman Briggs College students to earn a baccalaureate degree after satisfactory completion of a minimum of 90 credits at Michigan State University and a minimum of 30 credits through subsequent enrollment at the Michigan State University College of Osteopathic Medicine. Only students who matriculate as first-year students at Lyman Briggs College may pursue this option. Students interested in this option should consult with their college academic advisor during their first year in the college.

Admission to the MSU College of Osteopathic Medicine component of this program is limited to a small number of students who complete the specified university and college requirements and who fulfill admission requirements for the MSU College of Osteopathic Medicine Doctor of Osteopathic Medicine program.

b. Academic Programs Catalog Text:

Lyman Briggs College, in collaboration with the MSU College of Osteopathic Medicine, offers an opportunity for selected Lyman Briggs College students to earn a baccalaureate degree after satisfactory completion of a minimum of 90 credits at Michigan State University and a minimum of 30 credits through subsequent enrollment at the Michigan State University College of Osteopathic Medicine. Only students who matriculate as first-year students at Lyman Briggs College may pursue this option. Students interested in this option should consult with their college academic advisor during their first year in the college.

Admission to the MSU College of Osteopathic Medicine component of this program is limited to a small number of students who complete the specified university and college requirements and who fulfill admission requirements for the MSU College of Osteopathic Medicine Doctor of Osteopathic Medicine program.

All students in this program will complete a minimum of 90 credits at Michigan State University in the Lyman Briggs College Biology major. The requirements for the program are as follows:

1. Completion of all the Michigan State University graduation requirements, including integrative studies and general education.
2. Completion of the Lyman Briggs College graduation requirements including mathematics, chemistry, biology, physics, and history, philosophy and sociology of science.
3. Be pursuing the curriculum for the Lyman Briggs College Biology major.
4. Completion of a minimum of 30 credits at the MSU College of Osteopathic Medicine in the preclerkship component of the Doctor of Osteopathic Medicine degree program.
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

Upon satisfactory completion of the specified 120 credits, students in this program will be eligible for the Bachelor of Science degree in Lyman Briggs College with a major in Biology.

Effective Spring 2016.

COLLEGE OF MUSIC

1. 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 September 14, 2015 meeting.

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

      (1) Change the total credits from ‘30’ to ‘35’.

      (2) In item 1. change the total credits from ‘25’ to ‘27’ and add the following course:

          MUS 964 Seminar in College Music Teaching 2

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

          MUS 851J Jazz Voice 4

      (4) Renumber item 5. to item 6. and add the following new item 5.:

          Complete one of the following courses (3 credits):

          MUS 861 Seminar in Psychology of Music Education 3
          MUS 862 Seminar in Music Curriculum and Methodology 3
          MUS 863 Seminar in the Sociology of Music Education 3

   Effective Summer 2016.

COLLEGE OF NATURAL SCIENCE

1. Change the requirements for the Master of Science degree in Biomedical Laboratory Operations in the Biomedical Laboratory Diagnostics Program. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

   a. Under the heading Admission delete paragraph two.

   b. Under the heading Requirements make the following change:

      (1) Replace the introductory paragraph with the following:

          The student must complete 31 credits under Plan B (without thesis). The specific program of study includes competence in statistics and completion of a project in Biomedical Laboratory Operations as determined in consultation with the student’s guidance committee. The final oral examination, which covers both course work and research, is administered by the student’s guidance committee.

   Effective Spring 2016.
2. Change the requirements for the Master of Science degree in Physics in the Department of Physics and Astronomy. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

   a. Under the heading Requirements for the Master of Science Degree in Physics add the following statement:

   **Concentration in Beam Physics**

   Students interested in pursuing a concentration in beam physics may do so through a partially or entirely online option. The regular requirements for the master’s degree in physics apply. Credits for the concentration may be earned through courses and research including PHY 861, PHY 961, PHY 962, PHY 963, and PHY 964. The student’s program of study must be approved by the student’s guidance committee. Students may transfer up to 9 credits in relevant course topics approved on a case-by-case basis. Up to 10 credits of master’s thesis research (PHY 899) may be earned under supervision of MSU faculty or through a suitable external mentor at a university or national laboratory near the student’s location as determined on a case-by-case basis.

   Effective Fall 2016.

3. Change the requirements for the Doctor of Philosophy degree in Physics in the Department of Physics and Astronomy. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

   a. Under the heading Requirements for the Doctor of Philosophy Degree in Physics add the following statement:

   **Concentration in Beam Physics**

   Students interested in pursuing a concentration in beam physics may do so through a partially or entirely online option. The regular requirements for the doctoral degree in physics apply which includes successful completion of four subject examinations in core areas of physics which can be administered by a mutually approved local proctor, where such practice is permissible, and successful completion of a minimum of 24 credits of doctoral dissertation research. A minimum of 54 credits is required for completion of the program when combined with the requirements for the master’s degree with a concentration in beam physics.

   Effective Fall 2016.

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**COLLEGE OF NURSING**

1. Delete the curriculum and degree requirements for the Graduate Certificate in Adult Gerontology Clinical Nurse Specialist in the College of Nursing. The University Committee on Graduate Studies (UCGS) provided consultative commentary to the Provost after considering this request at its April 6, 2015 meeting. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Graduate Studies.

   No new students are to be admitted to the program effective Fall 2015. No students are to be readmitted to the program effective Fall 2015. Effective Spring 2016, coding for the program will be discontinued and the program will no longer be available in the College of Nursing. Students who have not met the requirements for the Graduate Certificate in Adult Gerontology Clinical Nurse Specialist through the College of Nursing prior to Spring 2016 will have to change their major.

2. Delete the curriculum and degree requirements for the Graduate Certificate in Nurse Practitioner in the College of Nursing. The University Committee on Graduate Studies (UCGS) provided consultative commentary to the Provost after considering this request at its April 6, 2015 meeting. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Graduate Studies.

   No new students are to be admitted to the program effective Fall 2015. No students are to be readmitted to the program effective Fall 2015. Effective Spring 2016, coding for the program will be discontinued and the program will no longer be available in the College of Nursing. Students who have not met the requirements for the Graduate Certificate in Adult Gerontology Clinical Nurse Specialist through the College of Nursing prior to Spring 2016 will have to change their major.
COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the Doctor of Philosophy degree in Political Science in the Department of Political Science. The University Committee on Graduate Studies (UCGS) approved this request at its September 14, 2015 meeting.

   a. Under the heading Requirements for the Doctor of Philosophy Degree in Political Science replace the entire entry with the following:

   The doctoral student must:

   1. Earn at least 45 credits in political science courses including:

      a. All of the following courses (15 credits):
         PLS 800 Proseminar: Political Theory and Research Methods 3
         PLS 801 Quantitative Techniques in Public Policy and Political Science I 3
         PLS 802 Quantitative Techniques in Public Policy and Political Science II 3
         PLS 803 Political Thought 3
         PLS 809 Proseminar in Formal Theory 3

      b. At least four courses in a major field, approved by the student's guidance committee, selected from one of the following political science fields: American politics, comparative politics, international relations, public policy, or political philosophy.

      c. At least three courses in a minor field, approved by the student's guidance committee, selected from one of the following political science fields: American politics, comparative politics, international relations, political philosophy, public policy, research methodology, or formal theory.

   2. Pass a comprehensive examination in both the major and minor field.


   Additional requirements and evaluations are described in the Ph.D. Handbook on the department's Web site at www.pls.msu.edu.

   Academic Standards


   Effective Spring 2016.
PART II - NEW COURSES

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

ACC 801  International Accounting
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
An introduction to international accounting. Measurement, valuation, and reporting concepts and procedures underlying the major components of financial statements; analysis, interpretation, and use of financial statements in an international context; budgeting; costing; performance measurement and evaluation; control of international operations; international perspective on financial accounting regulation and management accounting issues.
Effective Fall 2015

COLLEGE OF ARTS AND LETTERS

AL 497  Practicum in Museum Studies
Fall of every year. Spring of every year. 1 to 3 credits. Interdepartmental with Anthropology and History of Art and History. A student may earn a maximum of 6 credits in all enrollments for this course. RB: AL 485 R: Open to students in the Museum Studies Minor and open to students in the Museum Studies Graduate Certificate or approval of college.
Practical experience in museum studies.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Spring 2016

AL 886  Fundamentals of Museum Studies
Fall of every year. 3(3-0) Interdepartmental with Anthropology and Community Sustainability and History. R: Open to lifelong graduate students in the College of Arts and Letters or in the Department of Anthropology or in the Department of History. Approval of department. Not open to students with credit in AL 485.
Introduction to the history of museums and current practices, standards, issues and ethics related to education, administration, visitor studies and the development, care and use of museum collections.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Spring 2016

AL 897  Practicum in Museum Studies
On Demand. 1 to 3 credits. Interdepartmental with Anthropology and Community Sustainability and History. A student may earn a maximum of 6 credits in all enrollments for this course. C: AL 485 concurrently or AL 886 concurrently.
Practical experience in museum studies.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Spring 2016

BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 838  Clinical Context of Blood Product Management
Summer of every year. 1(1-0) RB: Experience in transfusion medicine
Effective blood product management in the context of high use, high demand clinical settings.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 3 semesters after the end of the semester of enrollment.
Effective Summer 2016
PART II – NEW COURSES

BLD 839  Problems in Histocompatibility and Immunogenetics
Summer of every year. 2(2-0)
Application of transplant immunology to case studies and data analysis.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 3 semesters after the end of the semester of enrollment.
Effective Summer 2016

DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS

EPI 836  Practicum in Epidemiological Methods
Fall of every year. 3(3-0) P: EPI 812 and (EPI 826 or concurrently) R: Open to graduate students in the Department of Epidemiology and Biostatistics or approval of department.
Data management, analysis, interpretation and presentations using public data sets.
Effective Fall 2015

EPI 979  Advanced Topics in Infectious Disease Epidemiology
Spring of even years. 3(3-0) RB: EPI 817 R: Open to graduate students in the Department of Epidemiology and Biostatistics or approval of department.
Epidemiological and public health perspectives on the etiology, transmission and prevention of infectious diseases. Key conceptual and methodological issues associated with studying infectious diseases from molecular and population based perspectives.
Effective Spring 2016

COLLEGE OF HUMAN MEDICINE

HM 639  Northern Wilderness, Emergency and Sports Medicine
Spring of every year. 6 credits. R: Open to students in the College of Human Medicine. Approval of college.
Development of knowledge, skills and attitudes to address the needs of patients outside of the hospital with wilderness or sports related injuries.
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 2013

HM 819  American Healthcare Delivery: A Systems Approach
Summer of odd years. 3(3-0) RB: Graduate students or professionals with public health, medical, law, policy background R: Open to students in the Public Health Major or approval of college.
Evolution of United States healthcare system. The Affordable Care Act (ACA). Overview of funding and costs of healthcare delivery. Effect of ACA on future healthcare delivery and health professions.
Effective Summer 2015

HM 821  Corporate Social Responsibility and Public Health: India
Fall of odd years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, undergraduate level health-related discipline R: Open to juniors or seniors or graduate students. Approval of college.
Overview of the public health, healthcare systems and their connection to business in India. How business is impacted by public health and how public health is impacted by business. Based in Mumbai. Classroom learning and field experiences with key stakeholders from the political, business and health related fields.
Effective Summer 2015
PART II – NEW COURSES

DEPARTMENT OF KINESIOLOGY

KIN 251  Principles of Human Movement  
Fall of every year. Spring of every year. 4(3-2) RB: Functional Anatomy R: Open to students in the College of Education.  
Basic principles governing human movement with a focus on mechanics, movement coordination and motor learning aspects.  
Effective Fall 2016

MSU COLLEGE OF LAW

LAW 530R  Introduction to Legal Analysis and Process  
Fall of every year. 0 to 6 credits. R: Open to Law students or master of laws students.  
Skill development of issue spotting, structuring answers, document drafting, time management, and essay exam taking.  
Request the use of the Pass-Fail Grade (P-F) system.  
Effective Fall 2015

LAW 535P  Information Privacy and Security Law  
Fall of every year. 0 to 6 credits. R: Open to Law students or master of laws students or law lifelong students or law non-degree students. Not open to students with credit in LAW 533C.  
Regulation of information flow with particular attention to statutory and compliance issues.  
Effective Fall 2015

LAW 537Q  Delivering Legal Services  
Fall of every year. 0 to 6 credits. R: Open to Law students or master of laws students or law lifelong students or law non-degree students.  
Survey of legal service delivery processes.  
Effective Fall 2015

LAW 545K  Halal Food: Introduction of Islamic Laws and Ethics  
Fall of every year. 0 to 6 credits. R: Open to Law students or master of laws students or law lifelong students or law non-degree students.  
Religious foundations of Islamic dietary laws, ethics and customs relating to food generally.  
Effective Fall 2015

LAW 551D  Government Relations and Lobbying Law  
Fall of every year. 0 to 6 credits. R: Open to Law students or master of laws students or law lifelong students or law non-degree students.  
Distinctions among legislative, administrative and grassroots lobbying and the professional norms of lobbyists.  
Effective Fall 2015

LAW 627M  Mediation Competition  
Fall of every year. Spring of every year. 0 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (LAW 530D or LAW 530E or LAW 530N or LAW 530Q) and (LAW 530J and LAW 587E) R: Open to Law students.  
Mechanics of mediation  
Request the use of the Pass-Fail Grade (P-F) system.  
Effective Fall 2015

LAW 627N  Negotiation Competition  
Fall of every year. Spring of every year. 0 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (LAW 530D or LAW 530E or LAW 530N or LAW 530Q) and LAW 530J and LAW 530F R: Open to Law students.  
Mechanics of negotiation  
Request the use of the Pass-Fail Grade (P-F) system.  
Effective Fall 2015
LAW 627P  Arbitration Competition
Fall of every year. Spring of every year. 0 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (LAW 530D or LAW 530E or LAW 530N or LAW 530Q) and (LAW 530J and LAW 623J) R: Open to Law students.
Mechanics of arbitration
Request the use of the Pass-Fail Grade (P-F) system.
Effective Fall 2015

LAW 627Q  Appellate Competition
Fall of every year. Spring of every year. 0 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (LAW 530D or LAW 530E or LAW 530N or LAW 530Q) and LAW 530J R: Open to Law students.
Mechanics of appellate practice
Request the use of the Pass-Fail Grade (P-F) system.
Effective Fall 2015

LAW 627R  Trial Competition
Fall of every year. Spring of every year. 0 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (LAW 530D or LAW 530E or LAW 530N or LAW 530Q) and LAW 530J R: Open to Law students.
Mechanics of trial practice.
Request the use of the Pass-Fail Grade (P-F) system.
Effective Fall 2015

DEPARTMENT OF MARKETING

MKT 842  International Marketing
Fall of every year. 1 to 3 credits. R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.
Influence of culture, time and distance on marketing decisions. How macro-environmental knowledge influences micro-environment decision-making.
Effective Fall 2016

MKT 852  Global Value Chains
Fall of every year. 1 to 3 credits. R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.
Business decision-making related to global supply chains.
Effective Fall 2016

DEPARTMENT OF MATHEMATICS

MTH 101  Quantitative Literacy I
Fall of every year. 3 credits. P: (MTH 1825) or designated score on Mathematics Placement test
Quantitative literacy including applications to health and risk, science, and the environment.
Effective Fall 2015

MTH 102  Quantitative Literacy II
Spring of every year. 3 credits. P: (MTH 1825) or designated score on Mathematics Placement test
Quantitative literacy including applications to finance, economics, and politics.
Effective Spring 2016
MTH 847  Partial Differential Equations I
Fall of every year. 3(3-0) RB: Equivalent of MTH 414 R: Open to doctoral students in the College of Natural Science.
Basic theory and techniques for general first-order equations, Laplace's equation, the heat equation and wave equations, with certain generalizations to the second-order linear equations of elliptic, parabolic and hyperbolic types.
Effective Fall 2015

COLLEGE OF MUSIC

MUS 466  Internship in Music
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to sophomores or juniors or seniors or graduate students in the College of Music.
Supervised pre-professional field experience in the arts. Students will complete a full semester (14 week) internship at their organization of choice (typically arts based).
Request the use of the Pass-No Grade (P-N) system.
Effective Fall 2015

MUS 496  Your Music Business
Spring of every year. 1 to 2 credits. A student may earn a maximum of 2 credits in all enrollments for this course. R: Open to students in the College of Music.
Focus on developing business skills for those contemplating entering music as a business.
Effective Fall 2015

MUS 800  Jazz Arranging and Composition
Fall of every year. Spring of every year. 1 to 3 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 Music or in the Jazz Studies Major or approval of college.
Advanced jazz instrumental writing focusing on developing harmonic skills at the piano for arranging purposes and arranging for small and large ensembles and voices. Advanced orchestration techniques. Music notation and score/chart preparation.
Effective Fall 2016

PROGRAM IN NEUROSCIENCE

NEU 215  Neuroscience and Society
Summer of every year. 3(3-0) P: Completion of Tier I Writing Requirement Not open to students with credit in NEU 301 or ZOL 402.
Critical examination of important societal issues related to neuroscience, including stress, addiction, and sex differences. Comparison of peer-reviewed neuroscientific research and popular press publications.
Effective Summer 2016

NEU 416  Development of the Nervous System Through the Lifespan
Fall of every year. 3(3-0) Interdepartmental with Zoology. P: NEU 302 or ZOL 402 or PSY 209 RB: ZOL 341 R: Open to undergraduate students in the Program in Neuroscience or in the Department of Integrative Biology or in the Department of Psychology or in the Lyman Briggs Neuroscience Major or in the Lyman Briggs Zoology Coordinate Major.
Development of neurons and their connections, roles of both genetics and behavioral experience in shaping the mammalian nervous system.
Effective Fall 2015

NEU 430  Genomics of Brain Development, Learning, and Behavior
Summer of every year. 3(3-0) P: (ZOL 341) and (NEU 302 or ZOL 402) RB: PSY 209
Role of genes in brain development and function. Issues in behavioral and psychiatric genetics.
Effective Summer 2016
PART II – NEW COURSES

DEPARTMENT OF RELIGIOUS STUDIES

REL 185  Nonprofits and Religion
Fall of every year. 3(3-0) R: Not open to seniors.
   History, themes and issues in the intersection of religion, philanthropy, and nonprofit
   organizations in U.S. and global contexts.
   Effective Fall 2015

REL 385  Religion, Health, and Healthcare
Fall of every year. 3(3-0)
   Religion, health, and illness, and responses to them in health care professions, faith
   communities, and the broader society. Topics may include religion and interpretations of
   embodiment or suffering; challenges of religious diversity to health care professionals; and
   the "religiosity" of secular science, medicine, and public health, which are partially shaped
   by their own myths, rituals, and symbols.
   Effective Fall 2015

DEPARTMENT OF SUPPLY CHAIN MANAGEMENT

SCM 873  Supply Chain Management Sourcing, Operations and Distribution
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: SCM 870 R: Open
   to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of
   Management or approval of department.
   Management of the firm's value creation processes with particular emphasis on strategic
   sourcing, procurement, operations strategy, capacity strategy, capacity location, channel
   development and management, and coordination of plans across supply chain partners.
   Effective Fall 2015

DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 480  Publication Management I
Fall of every year. 3(3-0) P: ((WRA 202 and WRA 370) or approval of department) and completion
   of Tier I writing requirement R: Open to students in the Professional Writing Major or approval
   of department.
   Experience in publication processes: creating, designing, editing, and managing
   periodical, book, or online publications. Copyediting, developmental editing, design and
   layout, distribution and publicity. Rhetorical approaches to editing. Team processes
   involved in designing and editing publications. History of publishing.
   SA: WRA 380
   Effective Spring 2016

WRA 481  Publication Management II
Spring of every year. 3(3-0) P: (WRA 202 and WRA 370) and completion of Tier I writing
   requirement R: Open to students in the Professional Writing Major.
   Experience in publication processes: creating, designing, editing, and managing
   periodical, book, or online publications. Copyediting, developmental editing, design and
   layout, distribution and publicity. Rhetorical approaches to editing. Team processes
   involved in designing and editing publications. History of publishing.
   SA: WRA 380
   Effective Spring 2016

DEPARTMENT OF ZOOLOGY

ZOL 405  Neural Basis of Animal Behavior
Spring of every year. 3(3-0) P: (BS 161 or LB 145 or BS 181H) and (BS 162 or LB 144 or BS
   182H)
   Structure and function of neurons and neural circuits underlying naturally-occurring animal
   behaviors.
   Effective Spring 2016
### PART III – COURSE CHANGES

#### DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 843</td>
<td>Operational Management Accounting and Analytics</td>
<td>1-3</td>
<td>Fall of every year, Spring of every year</td>
<td>(MBA 812 or ACC 341) and (MBA 804 or MKT 317)</td>
<td>Open to masters students in the Accounting Major and open to MBA students or approval of department.</td>
</tr>
<tr>
<td>ITM 309</td>
<td>Business Information Systems and Technology</td>
<td>3(3-0)</td>
<td>Fall of every year, Spring of every year, Summer of every year</td>
<td>CSE 101 or concurrently CSE 101</td>
<td></td>
</tr>
<tr>
<td>ITM 209</td>
<td>Business Information Systems and Technology</td>
<td>3(3-0)</td>
<td>Fall of every year, Spring of every year, Summer of every year</td>
<td></td>
<td>Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business.</td>
</tr>
</tbody>
</table>

#### COLLEGE OF ARTS AND LETTERS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS 150</td>
<td>The Entertainment Society</td>
<td>4(4-0)</td>
<td>Fall of every year, Spring of every year</td>
<td></td>
<td>Entertainment popular culture in America. Social, cultural, and historical impact of major entertainment popular culture, including dime novels, pulp magazines, comic books, comic strips, blockbuster films, story radio, and video gaming culture.</td>
</tr>
<tr>
<td>AMS 200</td>
<td>Introduction to American Studies</td>
<td>4(4-0)</td>
<td>Fall of every year, Spring of every year</td>
<td>RB: Completion of Tier I Writing requirement</td>
<td></td>
</tr>
<tr>
<td>AMS 210</td>
<td>Introduction to Popular Culture</td>
<td>4(4-0)</td>
<td>Fall of every year</td>
<td></td>
<td>Significant social issues in American popular culture. American studies theory and methods employed to analyze thematic and historical cultural representations in popular culture.</td>
</tr>
<tr>
<td>AMS 270</td>
<td>Comics and Animation in America</td>
<td>3(3-0)</td>
<td>Spring of every year</td>
<td>P: Completion of Tier I writing requirement. RB: AMS 210</td>
<td></td>
</tr>
</tbody>
</table>

**Effective Spring 2013 Effective Fall 2016**

**Effective Spring 2013 Effective Fall 2016**

**Effective Spring 2013 Effective Fall 2016**
PART III – COURSE CHANGES

AMS 285  Ethnicity and Identity in American Culture
Fall of every year. 3(3-0) P: Completion of Tier I Writing Requirement
Comparative study of ethnicity and identity in American culture using the theories and
systems of analysis of American studies.
SA: AMS 280
DELETE COURSE
Effective Spring 2016

AMS 290  Independent Study
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a
maximum of 6 credits in all enrollments for this course. RB: (AMS 210) and (HST 202 or HST 203)
R: Approval of department.
Special projects, directed reading, and research arranged by an individual student and a
faculty member in areas supplementing regular course offerings.
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.
DELETE COURSE
Effective Spring 2016

AMS 340  Digital Popular Culture
Fall of every year. 3(3-0) P: Completion of Tier I Writing Requirement RB: AMS 210
Digital popular culture and change in the U.S. and the world. Technology change, visual
rhetoric and culture, and global networking.
DELETE COURSE
Effective Spring 2016

AMS 361  Analyzing American Media Culture
Spring of every year. 3(3-0)
American media culture. Analysis and interpretation of media texts and forms such as
television, film, music, books, and newspapers. Role of media in American politics,
society, and economy.
SA: AMS 261
DELETE COURSE
Effective Spring 2016

AMS 365  Transcultural Perspectives
Spring of every year. 3(3-0)
Comparative study of contemporary and historical cultural discourses of and about the
Americas and their place in the global commons. Implications of cultural identities,
especially as shaped by age, race, ethnicity, gender and sexuality. Borders and tourism
and the import and export of technologies, media and commodities.
SA: AMS 265
DELETE COURSE
Effective Spring 2016

AMS 450  Major Themes in Popular Culture
Spring of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this
course. P: Completion of Tier I Writing Requirement RB: AMS 210 R: Approval of department.
Advanced, in-depth study of major themes in popular culture studies.
DELETE COURSE
Effective Spring 2016

AMS 461  Major Themes in Entertainment Culture
Fall of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this
course. P: Completion of Tier I Writing Requirement RB: AMS 150 R: Approval of department.
Advanced, in-depth study of major themes in entertainment studies.
DELETE COURSE
Effective Spring 2016
PART III – COURSE CHANGES

AMS 465  Major Themes in Ethnicity and Identity in American and Global Culture
Spring of even years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement R: Approval of department.
Advanced, in-depth study of major themes in ethnicity and identity in American and global culture.
DELETE COURSE
Effective Spring 2016

AMS 490  Independent Study
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (AMS 200) and completion of Tier I writing requirement R: Approval of department.
Special project, directed reading and research supplementing regular course offerings.
DELETE COURSE
Effective Spring 2016

AMS 492  Seminar in American Studies
Spring of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: AMS 210 and AMS 250 and ENG 481 and HST 480 and HST 202 and HST 203 Selected topics in American studies emphasizing interdisciplinary approaches. Topics vary.
DELETE COURSE
Effective Spring 2016

AMS 493  American Studies Internship
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: AMS 200 R: Approval of department.
Supervised professional field experience in American studies.
DELETE COURSE
Effective Spring 2016

BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 835  Hemostasis, Thrombosis and Effective Resource Management
Fall of every year. 3(3-0) RB: Background in hemostasis, thrombosis and blood product management. R: Open to lifelong graduate students in the College of Natural Science or in the Biomedical Laboratory Diagnostics Program or in the Clinical Laboratory Sciences major or approval of department.
Theories of coagulation, thrombosis and effective blood product management. Needs and particular stresses during an active bleeding crisis.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 4 semesters after the end of the semester of enrollment.
Effective Fall 2008 Effective Spring 2016

BLD 836  Adverse Transfusion Outcomes: Detection, Monitoring and Prevention
Spring of every year. Summer of every year. 2(2-0) RB: Medical technology and clinical laboratory sciences laboratory professionals. R: Open to lifelong graduate students and open to graduate students in the Biomedical Laboratory Operations major or in the Clinical Laboratory Sciences major.
Adverse transfusion outcomes (ATO) covering cause, methods of detection, monitoring paradigms and prevention.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 3 semesters after the end of the semester of enrollment.
Effective Spring 2010 Effective Spring 2016
DEPARTMENT OF BIOSYSTEMS AND AGRICULTURAL ENGINEERING

BE 332  Engineering Properties of Biological Materials
Fall of every year. 3(3-0) P: (BE 101 or concurrently) and (BS 161 or BS 181H or LB 145) and CE 221 R: Open to juniors or seniors in the Department of Biosystems and Agricultural Engineering. C: BE 334 concurrently.
Physical and thermal properties of biological materials necessary for the design and analysis of processes and equipment in biosystems.
Effective Fall 2013 Effective Spring 2015

BE 350  Heat and Mass Transfer in Biosystems
Spring of every year. 3(3-0) P: (BE 101 or concurrently) and (MTH 235 or MTH 255H or LB 220) and ((CE 321 or concurrently) or (CHE 311 or concurrently) or (CEM 321 or concurrently)) and ((CEM 143 or concurrently) or (CEM 251 or concurrently) or (CEM 351 or concurrently)) P: (BE 101 or concurrently) and (MTH 235 or LB 220) and ((CE 321 or concurrently) or (CHE 311 or concurrently) or (CEM 321 or concurrently)) and ((CEM 143 or concurrently) or (CEM 251 or concurrently) or (CEM 351 or concurrently)) R: Open to students in the College of Engineering. Not open to students with credit in ME 410.
Effective Fall 2013 Effective Spring 2016

BE 444  Biosensors for Medical Diagnostics
Spring of every year. 3(3-0) Interdepartmental with Biomedical Engineering. P: (BS 161 or BS 181H or LB 145) and (CEM 141 or CEM 151) and (ECE 302 or ECE 345 or BE 334 or CEM 333) RB: Biology, chemistry, and electronics R: Open to juniors or seniors or graduate students in the College of Engineering. Not open to students with credit in BE 845.
Biosensors, their components, properties, and associated electronics for applications in medical diagnostics.
SA: BE 445
Effective Fall 2013 Effective Fall 2015

DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE

CHE 483  Brewing and Distilled Beverage Technology
Spring of every year. 3(2-3) Interdepartmental with Food Science. P: CHE 311 or BE 331 or BS 429 or BE 429 P: CHE 311 or (ME 410 or concurrently) or BE 350 or (BE 429 or concurrently) or (FSC 325 or concurrently) RB: Major in Chemical Engineering, Biosystems Engineering or Food Science. Must be at least 21 years of age. R: Approval of department.
Raw materials for fermentation and basics of alcohol fermentation, beer and cider production; basics of distillation; brandy and eau de vie production; whiskey production; vodka, gin and flavored spirits production; flavor chemistry
Effective Fall 2014 Effective Fall 2015
MSE 260  Electronic, Magnetic, Thermal, and Optical Properties of Materials
Spring of every year. 3(3-0)  P: MSE 250 and (PHY 184 or concurrently)  P: (MSE 250) and ((PHY 184 or concurrently) and (PHY 184B or concurrently) and (PHY 294H or concurrently) and (LB 274 or concurrently))
Processing, structures, and properties of ceramics, polymers, and composites. Electrical, thermal, magnetic and optical properties of materials. Materials selection and design.
SA: MSE 350  Effective Fall 2014 Effective Fall 2015

MSE 310  Phase Equilibria in Materials
Fall of every year. 3(3-0) P: (MSE 250 or concurrently) and ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently))  R: Open to juniors or seniors in the College of Engineering.  R: Open to juniors or seniors in the Materials Science and Engineering Major or in the Materials Science and Engineering Minor.
Enthalpy. Entropy. Free energy. Phase changes in metal, ceramic, and polymer materials systems. Application to alloying, phase diagram determination, and electrochemistry.
SA: MSE 351  Effective Fall 2014 Effective Fall 2015

MSE 320  Mechanical Properties of Materials
Fall of every year. 3(3-0) P: (ME 222 or concurrently) and MSE 250  R: Open to juniors or seniors in the Materials Science and Engineering major or approval of department.  R: Open to juniors or seniors in the Materials Science and Engineering Major or in the Materials Science and Engineering Minor.
SA: MSE 355  Effective Fall 2014 Effective Fall 2015

MSE 331  Materials Characterization Methods I
Fall of every year. 2(1-3) P: MSE 310 or concurrently  R: Open to juniors or seniors in the Materials Science and Engineering Major.  C: MSE 310 concurrently.
Thermal analysis, microindentation techniques, quantitative optical microscopy, effects of alloying on creep deformation, slip systems in ionic crystals, environmental effects including galvanic corrosion, passivation.
SA: MSE 375  Effective Fall 2014 Effective Fall 2015

MSE 360  Fundamentals of Microstructural Design
Spring of every year. 3(3-0) P: ME 201 or MSE 310 or CHE 321 or PhD 215  RB: ((MTH 235 or concurrently) or (MTH 340 or concurrently) or (MTH 347H or concurrently) or (MTH 255H or concurrently)) and (MSE 260 or concurrently)  RB: ((MTH 235 or concurrently) or (MTH 340 or concurrently) or (MTH 347H or concurrently)) and (MSE 260 or concurrently)  R: Open to juniors or seniors in the Department of Chemical Engineering and Materials Science or approval of department.  R: Open to juniors or seniors in the Department of Chemical Engineering and Materials Science or in the Materials Science and Engineering Minor.
Fick’s laws of diffusion. Models of solid state diffusion. Arrhenius plots. Use of nonequilibrium energy storage from solidification, phase changes, and deformation to predict and control microstructural changes and stability during processing in metal, ceramic, and polymer systems.
SA: MSE 352  Effective Fall 2014 Effective Fall 2015
MSE 370  Synthesis and Processing of Materials  
Spring of every year. 3(3-0) P: (ME 201 or PHY 215 or MSE 310 or CHE 321) and MSE 250 RB: MSE 260 or concurrently R: Open to students in the Department of Chemical Engineering and Materials Science or approval of department; application required. R: Open to juniors or seniors in the Department of Chemical Engineering and Materials Science or in the Materials Science and Engineering Minor.  
Chemical and physical processing of materials. Powder synthesis and processing, consolidation, casting, microdevice fabrication and surface treatments, corrosion mitigation  
SA: MSE 365, MSE 380  
Effective Fall 2014  Effective Fall 2015

MSE 381  Materials Characterization Methods II  
Spring of every year. 2(1-3) P: MSE 331 and (MSE 260 or concurrently) P: (MSE 331 and (MSE 260 or concurrently) and (MSE 360 or concurrently) and (MSE 370 or concurrently) R: Open to juniors or seniors in the Materials Science and Engineering Major. C: MSE 360 concurrently and MSE 370 concurrently.  
Characterization of materials by electron microscopy, X-ray diffraction and fluorescence spectroscopy. Fractography, surface analysis, dynamic mechanical analysis, electrical and thermal property measurements.  
SA: MSE 376  
Effective Fall 2014  Effective Fall 2015

MSE 410  Materials Foundations for Energy Applications  
Fall of every year. 3(3-0) RB: MSE 310 or ME 201 or CHE 321 R: Open to seniors in the Department of Chemical Engineering and Materials Science. R: Open to seniors in the Department of Chemical Engineering and Materials Science or in the Materials Science and Engineering Minor or approval of department.  
Survey of materials that enable new energy generation, storage, and distribution technologies; thermoelectric materials, electrochemistry of batteries, semiconductors for solar cells, radiation tolerant materials, processing of biobased fuels, greenhouse gas mitigation approaches  
Effective Fall 2014  Effective Fall 2015

MSE 425  Biomaterials and Biocompatibility  
Spring of every year. 3(3-0) Interdepartmental with Biomedical Engineering. P: MSE 250 RB: PSL 250 R: Open to juniors or seniors in the College of Engineering. Materials science of human implants. Design requirements imposed by the human body, and need for bodily protection.  
SA: BME 424, MSE 324  
Effective Fall 2014  Effective Fall 2015

MSE 460  Electronic Structure and Bonding in Materials and Devices  
Spring of every year. 3(3-0) P: MSE 260 R: Open to seniors in the Department of Chemical Engineering and Materials Science or approval of department; application required. R: Open to seniors or juniors in the Department of Chemical Engineering and Materials Science or in the Materials Science and Engineering Minor.  
Effective Fall 2014  Effective Fall 2015

MSE 465  Design and Application of Engineering Materials  
Spring of every year. 3(3-0) P: MSE 250 R: Open to seniors or graduate students in the College of Engineering. R: Open to seniors or graduate students in the College of Engineering or in the Materials Science and Engineering Major or in the Materials Science and Engineering Minor.  
Fundamental principles of strengthening: toughening, specific strength, and stiffness. Material development based on environmental, temperature, wear, damping, fatigue, and economic considerations.  
SA: MSM 465  
Effective Fall 2014  Effective Fall 2015
MSE 466  Design and Failure Analysis (W)
Spring of every year. 3(2-3)  P: ((MSE 320 and MSE 381) or approval of department) and completion of Tier I writing requirement  R: Open to seniors in the College of Engineering.
Modes and causes of failure in mechanical components and role of design. Non-destructive evaluation. Legal and economic aspects of materials failure. Student projects.
SA: MSM 466
Effective Fall 2014  Effective Fall 2015

MSE 474  Ceramic and Refractory Materials
Fall of every year. 3(3-0)  P: MSE 260 or approval of department  RB: MSE 370 and MSE 381  R: Open to seniors in the College of Engineering.
Ceramic and glassy materials. High temperature processes. Mechanical and physical properties of technical ceramics.
SA: MSM 454, MSE 454
Effective Summer 2015  Effective Fall 2015

MSE 476  Physical Metallurgy of Ferrous and Aluminum Alloys
Fall of every year. 3(3-0)  P: MSE 250 RB: MSE 310  R: Open to seniors in the College of Engineering.
Heat treatment and properties of ferrous and aluminum alloys. Casting and solidification. Effects of alloying elements, high strength low alloy steels, hardenability, and case hardening. Joining of materials, such as welding.
SA: MSM 476
Effective Fall 2014  Effective Fall 2015

MSE 481  Spectroscopic and Diffraction Analysis of Materials
Spring of every year. 3(2-3)  P: PHY 184 or PHY 184B or PHY 234B  RB: MSE 260 and MSE 381  R: Open to juniors or seniors or graduate students in the College of Engineering or in the College of Natural Science.
SA: MSE 451, MSM 451
Effective Summer 2015  Effective Fall 2015

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ECE 202  Circuits and Systems II
Fall of every year. Spring of every year. 3(3-0)  P: ECE 201 and ((MTH 235 or concurrently) or (MTH 255H or concurrently) or MTH 340 or MTH 347H)  P: (ECE 201) and ((MTH 235 or concurrently) or MTH 340 or MTH 347H)
SA: ECE 360
Effective Fall 2013  Effective Fall 2015
ECE 305  Electromagnetic Fields and Waves I
Fall of every year. Spring of every year. Summer of every year. 4(4-0) P: ((MTH 235 or concurrently) or (MTH 255H or concurrently) or MTH 340 or MTH 347H) and (PHY 184 or PHY 184B or PHY 234B) and (ECE 280 and (ECE 202 or concurrently)) P: ((MTH 235 or concurrently) or MTH 340 or MTH 347H) and (PHY 184 or PHY 184B or PHY 234B) and (ECE 280 and (ECE 202 or concurrently)) R: Open to students in the Department of Electrical and Computer Engineering and open to students in the Department of Computer Science and Engineering. Transient and time-harmonic transmission lines. Smith charts. Two-port networks. Maxwell's equations. Force, energy, and power. Plane electromagnetic waves. Guided waves.
SA: EE 305
Effective Fall 2013 Effective Fall 2015

DEPARTMENT OF ENGLISH

FLM 400  Seminar in the History of Film (W)
Fall of every year. 3(3-2) A student may earn a maximum of 6 credits in all enrollments for this course. P: (FLM 230 and (FLM 300 or concurrently) and (FLM 301 or concurrently)) and completion of Tier I writing requirement P: ((FLM 230) and completion of Tier I writing requirement) and ((FLM 300 or concurrently) or (FLM 301 or concurrently) or approval of department)
Selected movements or traditions in film history. Silent film, studio film, New Wave, or British film.
SA: ENG 432
Effective Spring 2015 Effective Fall 2015

DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS

EPI 813  Investigation of Disease Outbreaks
Spring of every year. 3 credits. P: EPI 810 R: Open to graduate students in the Department of Epidemiology and Biostatistics or approval of department.
Principles of and practice in investigating disease outbreaks.
SA: HM 813
DELETE COURSE
Effective Fall 2015

DEPARTMENT OF FAMILY AND COMMUNITY MEDICINE

FCM 650  Principles of Family Medicine - Intensive
Fall of every year. Spring of every year. Summer of every year. 1(0-40) A student may earn a maximum of 2 credits in all enrollments for this course. P: OST 553 or concurrently R: Open to graduate-professional students in the College of Osteopathic Medicine.
One week intensive preceptorship in family medicine. One-week intensive preceptorship in family medicine.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Fall 2013 Effective Fall 2015

COLLEGE OF HUMAN MEDICINE

HM 834  Advanced Counterfeit Pharmaceuticals: Readings
Advanced Counterfeit Pharmaceuticals: Analysis and Assessment
Spring of even years. 3(3-0) P: HM 801 and HM 833 RB: Academic or professional background in public health or public health related discipline. R: Open to students in the Public Health Major or approval of college.
Advanced topics on the impact of counterfeit pharmaceuticals on public health.
Effective Fall 2008 Effective Summer 2015
HM 847  Public Health in Ghana
Public Health in Ghana: Methods for Community Practice
Summer of every year. 4(4-0) P: HM 848 RB: Academic or professional background in public health and/or public health related discipline; undergraduate level health-related discipline R: Open to students in the Public Health Major and open to juniors or seniors. Approval of college; application required.

Overview of major public health issues and the health care system, both Western and traditional, in Ghana. Health status indicators and determinants; major programs/strategies; organization of the health care system, access to and payment for care; role, image and status of health care providers; interface between Western and traditional medicine; basic qualitative and quantitative field research methods for community health.

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 2013 Effective Summer 2015

HM 848  Preparation for Healthcare in Ghana
Preparation for Public Health in Ghana: Methods for Community Practice
Spring of every year. 1(1-0)
Preparation for public health study abroad experiences in Ghana.

Effective Spring 2010 Effective Summer 2015

HM 880  Public Health Research Methods
Quantitative Methods in Public Health Research
Summer of odd years. 3(3-0) P: HM 802 and HM 803 RB: Academic or professional background in public health and/or public health related discipline, experience with databases R: Open to students in the Public Health Major or approval of college. Not open to students with credit in VM 830.

Identification of research questions, study design, data collection and questionnaire design, dataset manipulation and analysis, reporting of findings. Proposal writing, ethical considerations and submission to institutional review board (IRB).

Effective Summer 2013 Effective Summer 2015

HM 883  Mobile Technology, Social Media, and Games in Public Health
Mobile Health, Social Media and Games in Public Health
Fall of even years. 3(3-0) RB: Academic or professional background in public health and/or public health related discipline, healthcare administration, allopathic and osteopathic medicine, telecommunications, healthcare information technology, healthcare informatics, or computer science. R: Open to students in the Public Health Major or approval of college.

Utilization and critical analysis of mobile technology, social media platforms and games to assess, implement and improve public health programs and community education.

Effective Fall 2012 Effective Summer 2015

JAMES MADISON COLLEGE

MC 325  State and Society in Comparative Perspective
Spring of every year. 4(3-0) P: (MC 221 or MC 241 or MC 271 or MC 230 or MC 281) and Completion of Tier I Writing Requirement P: (MC 221 or MC 271 or MC 230 or MC 281) and Completion of Tier I Writing Requirement
Comparison of political systems and social-economic structures in capitalist and state-socialist societies. Political history, institutions, culture, and current policy issues.

Effective Fall 2014 Effective Spring 2016

MC 361  Political Economy and Comparative Public Policymaking
Spring of odd years. 4(3-0) P: (MC 221 or MC 241 or MC 231) and completion of Tier I writing requirement P: (MC 221 or MC 231) and completion of Tier I writing requirement
Use of political economy approaches to explain public policies and policymaking processes in comparative perspective.

Effective Fall 2014 Effective Spring 2016
PART III – COURSE CHANGES

**SCHOOL OF JOURNALISM**

**JRN 916**  Qualitative Research Methods  
Spring of every year. 3(3-0) Interdepartmental with Advertising and Telecommunication Interdepartmental with Advertising and Media and Information  
R: Open only to doctoral students in the College of Communication Arts and Sciences or Department of Communication.  
R: Open to doctoral students in the College of Communication Arts and Sciences.  
Qualitative research in mass and specialized communication systems. Topics include documentary, bibliographic, case study and participant observation methods.  
**Effective Fall 1992 Effective Fall 2015**

**JRN 921**  Media Theory  
Fall of every year. 3(3-0) Interdepartmental with Advertising and Telecommunication Interdepartmental with Advertising and Media and Information  
R: Open to doctoral students.  
SA: ADV 921  
**Effective Fall 2014 Effective Fall 2015**

**DEPARTMENT OF KINESIOLOGY**

**KIN 330**  Biomechanics of Physical Activity  
Fall of every year. Spring of every year. Summer of every year. 3(2-2)  
P: KIN 173 and (KIN 216 or ANTR 350) and (PHY 231 or PHY 231C or PHY 183 or PHY 183B or PHY 193H)  
P: (KIN 173 and KIN 251) and (KIN 216 or ANTR 350)  
R: Open to juniors or seniors in the Department of Kinesiology.  
Biomechanical analysis of human movement based upon musculoskeletal structure and function. Mechanical principles.  
SA: PES 330  
**Effective Spring 2013 Effective Fall 2016**

**KIN 360**  Physical Growth and Motor Behavior  
Fall of every year. Spring of every year. 3(3-0)  
P: KIN 216 or ANTR 350  
P: (KIN 216 or ANTR 350) and KIN 251  
R: Open to undergraduate students in the Athletic Training Major or in the Kinesiology major.  
SA: KIN 260  
**Effective Spring 2013 Effective Fall 2016**

**MSU COLLEGE OF LAW**

**LAW 533C**  Cyber Law  
Spring of every year. 2 to 4 credits. R: Open to students in the MSU College of Law. Not open to students with credit in LAW 535P.  
An overview of areas where technology has challenged traditional legal doctrines & the way we practice law. Overview of areas where technology has challenged traditional legal doctrines and the way we practice law.  
SA: DCL 455  
**Effective Spring 2006 Effective Fall 2015**
LAW 630C  Tax Clinic I
Fall of every year. Spring of every year. Summer of every year. 2 to 4 credits. 0 to 6 credits. R:
Open to students in the MSU College of Law.
This course addresses federal, state & local tax concerns. This is a hands-on course
where students will represent clients before the IRS & Tax Court. Federal, state and local
tax concerns. Representation of clients before the IRS and Tax Court.
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: DCL 476
Effective Spring 2006 Effective Spring 2016

LAW 630D  Tax Clinic II
Fall of every year. Spring of every year. Summer of every year. 2 to 4 credits. 0 to 6 credits. P:
LAW 630C R: Open to students in the MSU College of Law.
This is a hand-on course that allows for the continued opportunity to refine skills in
counseling & representing low income and English as a second language in tax
controversies before the tax tribunal & IRS agents. Counseling and representing low-
income and English as a second language in tax controversies before the tax tribunal and
IRS agents.
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: DCL 515
Effective Spring 2006 Effective Spring 2016

DEPARTMENT OF MANAGEMENT

MGT 411  Organizational Staffing
Fall of every year. Spring of every year. 3(3-0) P: (MGT 315 or concurrently) R: Open to juniors or
seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management
and not open to students in the School of Hospitality Business.
Job and organizational analysis. Personnel planning, recruitment, selection and
placement. Employment interviewing and testing. Validation of selection procedures,
equal opportunity employer (EEO) guidelines, and affirmative action. Issues and diversity
of ethics.
Effective Spring 2013 Effective Spring 2016

MGT 412  Compensation and Reward Systems
Fall of every year. Spring of every year. 3(3-0) P: (MGT 315 or concurrently) R: Open to juniors or
seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management
and not open to students in the School of Hospitality Business.
Designing compensation systems. Job evaluation, internal and external equity. Pay-for-
performance plans and financial incentives. Wage and salary surveys. Benefits
administration. Diversity and ethical considerations.
Effective Spring 2013 Effective Fall 2015

MGT 413  Personnel Training and Development
Fall of every year. Spring of every year. 3(3-0) P: MGT 315 or concurrently R: Open to juniors or
seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management
and not open to students in the School of Hospitality Business.
Designing and implementing training and development programs. Career stages and
career planning. Needs analysis. Experimental design and program evaluation. Learning
theories. Issues and diversity of ethics.
Effective Spring 2013 Effective Fall 2015

MGT 414  Diversity in the Workplace
Fall of every year. Spring of every year. 3(3-0) P: (MGT 315 or concurrently) R: Open to juniors or
seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management
and not open to students.
Problems experienced by racial, ethnic, physically disabled, and other minorities in work
organizations. Awareness training for managers. Ethical issues.
Effective Spring 2013 Effective Spring 2016
MGT 476  Globalization and International Management  
Fall of every year. Spring of every year. 3(3-0) P: MGT 315 or concurrently R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business or approval of department.  
International management issues, including national culture, leadership, decision making, team performance, communication, negotiations, structure, and personal career implications of international management.  
Effective Spring 2013  Effective Spring 2016

MGT 810  Human Resource Management for General Managers  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: (MBA 824 or concurrently) or (MGT 824 or concurrently or approval of department) R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.  
Human resource management functions performed by all managers. Design, administration, and evaluation of human resource activities. Needs assessment, program implementation and evaluation, information management and decision support, and international human resource management.  
Effective Fall 2013  Effective Fall 2015

MGT 811  Fundamentals of Human Resource Staffing  
Spring of every year. 1 to 3 credits. P: (MBA 824 or concurrently) or (MGT 824 or concurrently) P: MGT 810 or concurrently R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.  
Fundamentals of human resource staffing. Legal issues; measurement, reliability, and validity; job analysis; performance assessment; and recruitment.  
Effective Spring 2014  Effective Fall 2015

MGT 814  Managing Diversity in the Workplace  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: MGT 810 or concurrently R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.  
Problems experienced by racial, ethnic, physically disabled, and other minorities in work organizations. Awareness training for managers.  
Effective Fall 2014  Effective Fall 2015

MGT 817  Managing the Learning Organization  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: (MBA 824 or concurrently) or (MGT 824 or concurrently) P: MGT 810 or concurrently R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.  
Assessing knowledge, skills, and abilities within the organization. Matching future employee skill needs with appropriate learning strategies. Linking employee knowledge, skills, and abilities with overall organizational strategies.  
Effective Spring 2014  Effective Fall 2015

MGT 818  Talent Management and Development  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: MGT 817 or concurrently P: MGT 810 or concurrently R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.  
The role of managing human resources to realize organizational goals and mission. Employee recruitment and development, performance management, succession planning, and retention strategies. Career management and leadership development.  
Effective Fall 2014  Effective Fall 2015

MGT 822  Developing Reward and Compensation Systems  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: (MBA 824 or concurrently) or (MGT 824 or concurrently) P: MGT 810 or concurrently R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.  
Application of compensation principles to organizational objectives. Strategic use of compensation systems for attracting, motivating, and retaining employees. Managerial aspects of paying employees at all organizational levels.  
Effective Spring 2014  Effective Fall 2015
MGT 873  Strategic Decision Making
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. R: MBA 850 or MGT 850 P: MBA 850 or MGT 850 or MGT 858 R: Open to masters students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
Process of strategic decision-making, identify issues that impede and improve decision success, examine a range of contextual factors that influence the decision process. Effective Fall 2013 Effective Fall 2015

MGT 912  Special Topics Research Seminar
Spring of even years. On Demand. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to doctoral students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
Research in timely and specialized topics in organizational behavior, organization theory, human research management, organizational policy and strategy. Effective Fall 2014 Effective Fall 2015

DEPARTMENT OF MARKETING

MKT 355  Entrepreneurship: Strategic Marketing Planning and Launch
Fall of every year. Spring of every year. 3 credits. 3(3-0) P: MKT 300 or MKT 327 P: MKT 300 or MKT 327 or BUS 190 R: Open to undergraduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department. Not open to students with credit in MGT 352.
Process of planning, starting, and positioning new businesses which link directly to customer requirements. Understanding unmet market opportunity due to competitive gaps or customer needs (realized or not) for both consumer and industrial products and services. SA: MSC 355 Effective Fall 2015

MKT 420  New Product Design and Development
Fall of every year. Spring of every year. 3(3-0) P: (MKT 300 or MKT 327) and MKT 347 P: (MKT 300 or MKT 327 or BUS 190) and (MKT 317 or approval of department) R: Open to seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
Practical training and experiences in design and testing of new products. Not open to students with credit in MGT 414. Effective Fall 2015 Effective Fall 2016

DEPARTMENT OF MATHEMATICS

MTH 301  Foundations of Higher Mathematics
Fall of every year. Spring of every year. 3(3-0) P: MTH 133 or MTH 153H or LB 119 P: (MTH 133 or MTH 153H or LB 119) and MTH 202 R: Open to students in the Mathematics Elementary Teaching Major or in Mathematics-Elementary Disciplinary Teaching Minor or approval of department. Not open to students with credit in MTH 309.
Elementary set theory including permutations, combinations, cardinality theorems, relations, functions and quotient sets. Basic principles of logic and proof techniques. Elementary number theory and abstract algebra. Effective Fall 2013 Effective Fall 2015

MTH 415  Applied Linear Algebra
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: (MTH 235 or MTH 255H or MTH 340 or MTH 347H) and (MTH 309 or MTH 314 or MTH 317H) P: (MTH 235 or MTH 340 or MTH 347H) and (MTH 309 or MTH 314 or MTH 317H) Not open to students with credit in MTH 414.
MTH 441  Ordinary Differential Equations II
Fall of every year. 3(3-0) P: (MTH 235 or MTH 255H or MTH 340 or MTH 347H) and (MTH 309 or MTH 317H or MTH 314 or MTH 415) P: (MTH 235 or MTH 340 or MTH 347H) and (MTH 309 or MTH 317H or MTH 314 or MTH 415)
Existence and uniqueness theorems; Linearization; Local and global stability; Saddle-node, Hopf and heteroclinic bifurcations; Hamiltonian and gradient system; The Poincare map; The Poincare-Bendixson theorem and limit cycles; Selected applications.
Effective Fall 2013 Effective Fall 2015

MTH 442  Partial Differential Equations
Spring of every year. 3(3-0) P: MTH 235 or MTH 255H or MTH 340 or MTH 347H P: MTH 235 or MTH 340 or MTH 347H
Effective Fall 2013 Effective Fall 2015

MTH 451  Numerical Analysis I
Fall of every year. 3(3-0) P: (CSE 131 or CSE 231) and (MTH 309 or MTH 314 or MTH 317H or MTH 415) and (MTH 235 or MTH 255H or MTH 340 or MTH 347H) P: (CSE 131 or CSE 231) and (MTH 235 or MTH 340 or MTH 347H)
SA: MTH 351
Effective Fall 2013 Effective Fall 2015

MTH 457  Introduction to Financial Mathematics
Spring of every year. 3(3-0) P: MTH 309 and (MTH 235 or MTH 255H or MTH 340 or MTH 347H) and (STT 441 or STT 351) P: (MTH 309) and (MTH 235 or MTH 340 or MTH 347H) and (STT 441 or STT 351)
Effective Fall 2013 Effective Fall 2015

DEPARTMENT OF MECHANICAL ENGINEERING

ME 494  Biofluid Mechanics and Heat Transfer
Fall of every year. 3(3-0) Interdepartmental with Biomedical Engineering. P: (ME 410 or concurrently) or (CHE 311 or concurrently) or (BE 350 or concurrently) R: Open to juniors or seniors or graduate students in the College of Engineering.
Applications of fluid mechanics, heat transfer, and thermodynamics to biological processes, including blood flow in the circulatory system, heart function, effects of heating and cooling on cells, tissues, and proteins. Pharmacokinetics. Applications of fluid mechanics, heat transfer, and thermodynamics to biological processes, including blood flow in the circulatory system, heart function, effects of heating and cooling on cells, tissues, and proteins. Pharmacokinetics.
Effective Fall 2014 Effective Fall 2015
DEPARTMENT OF MEDIA AND INFORMATION

MI 411 Collaborative Documentary Design and Production (W)
Spring of every year. 3(2-2) Interdepartmental with English and Journalism and Writing, Rhetoric and American Cultures, Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures P: Completion of Tier I Writing Requirement R: Open to students in the Documentary Studies Specialization.
Design and development of documentaries in a team setting using video and audio, still photography, web design, and print media. Participation in a production cycle including idea generation, research, design, production, and distribution.
SA: TC 411
Effective Fall 2015

COLLEGE OF NURSING

NUR 426 Theoretical Basis for Critical Care
Fall of every year. Spring of every year. Summer of every year. 2(2-0) P: NUR 360 R: Open to seniors in the College of Nursing.
DELETE COURSE
Effective Summer 2015

NUR 838 Care for Aging Individuals Across the HealthCare Continuum
Spring of every year. Summer of every year. 1(1-0) P: NUR 802 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate. R: Open to graduate students in the Master of Science in Nursing or approval of college; application required.
- Regulations, financing methods, forms of service delivery, and management methods in care of the older adult within a variety of health care environments. Aging of the American society, the impact of the baby-boomer generation, consumer choice, and the growing diversity in care options, focusing on long-term care.
Effective Fall 2012 Effective Fall 2015

NUR 841 Health Care Policy in Perspective: Economics, Politics and Ethics
Spring of every year. 2(2-0)
- Economic, political and regulatory environment of the U.S. health care system. Quality, costs, equity in access of services. Comparison of U.S. systems with those of other advanced industrial countries.
SA: NUR 503
DELETE COURSE
Effective Fall 2015

NUR 865 Nursing Education Seminar
Spring of every year. 2(2-0) RB: Open only to students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.
- Syntheses of teaching and learning, curricular development, and learner-evaluation theories and strategies. Curricular design and unique characteristics of academic and clinical instruction and learning.
DELETE COURSE
Effective Fall 2015

NUR 867 Clinical Internship in Nursing Education
Spring of every year. 4(1-9) P: NUR 861 RB: Open only to students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.
- Application and evaluation of teaching and learning principles in a diverse health care setting.
DELETE COURSE
Effective Fall 2015
PART III – COURSE CHANGES

DEPARTMENT OF OBSTETRICS, GYNECOLOGY AND REPRODUCTIVE BIOLOGY

OGR 609  Advanced Gynecology Clerkship
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. A student may earn a maximum of 24 credits in all enrollments for this course. RB: OGR 608 R: Open to graduate-professional students in the College of Human Medicine.
Additional exposure to gynecology in the preceptor mode. Participation in outpatient gynecology and inpatient care, including surgery.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 2010 Effective Summer 2015

OGR 610  Perinatology Clerkship
Fall of every year. Spring of every year. Summer of every year. 4 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: OGR 608 R: Open only to graduate-professional students in College of Human Medicine. R: Open to graduate-professional students or human medicine students in the College of Human Medicine.
Additional exposure to high risk obstetrics including prenatal diagnosis and counseling, antepartum evaluation, and care of the high risk patient. Management of the intrapartum high risk patient.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 1995 Effective Summer 2015

OGR 611  Reproductive Endocrinology and Infertility Clerkship
Fall of every year. Spring of every year. Summer of every year. 4 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: OGR 608 R: Open only to graduate-professional students in College of Human Medicine. R: Open to graduate-professional students or human medicine students in the College of Human Medicine.
Added exposure to clinical problems in reproductive endocrinology and female infertility primarily in ambulatory setting. Occasional participation in inpatient experiences. Assisted reproductive technologies.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 1995 Effective Summer 2015

OGR 612  Gynecologic Oncology Clerkship
Fall of every year. Spring of every year. Summer of every year. 4 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: OGR 608 R: Open only to graduate-professional students in College of Human Medicine. R: Open to graduate-professional students or human medicine students in the College of Human Medicine.
Added clinical experience in inpatient and ambulatory gynecologic oncology, breast disease, and complicated benign gynecology in the preceptor mode. Pre-treatment evaluation and cancer management, including surgery.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 1995 Effective Summer 2015
OGR 614  Advanced Obstetrics Clerkship
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. A student may earn a maximum of 24 credits in all enrollments for this course. RB: OGR 608 R: Open to graduate-professional students in the College of Human Medicine.
Additional exposure to obstetrics in the preceptor mode. Participation in ambulatory and inpatient obstetrical care, including surgery. May include maternal-fetal medicine.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Summer 2010 Effective Summer 2015

OGR 615  Obstetrics and Gynecology Sub-Internship
Fall of every year. Spring of every year. Summer of every year. 6(6-0) A student may earn a maximum of 24 credits in all enrollments for this course. RB: OGR 608 R: Open to students in the College of Human Medicine.
Assist in labor delivery and in the care of gynecology/obstetrics patients providing first line care to patients similar to an intern.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.
Effective Fall 2013 Effective Summer 2015

DEPARTMENT OF RELIGIOUS STUDIES

REL 412  Jewish Mysticism
Jewish Mysticism  (W)
Fall of every year. 3(3-0) P: Completion of Tier I Writing Requirement RB: Completion of Tier I Writing requirement R: Open to undergraduate students.
Introduction to the doctrines, ritual practices, and history of Jewish mysticism.
Effective Fall 2014 Effective Summer 2016

REL 413  Jewish Philosophy
Jewish Philosophy  (W)
Fall of every year. 3(3-0) P: Completion of Tier I Writing Requirement RB: Completion of Tier I Writing requirement R: Open to undergraduate students.
Introduction to the history of Jewish philosophy.
Effective Fall 2014 Effective Summer 2016

REL 461  South Asian Religions and Bollywood Film
South Asian Religions and Bollywood Film  (W)
Fall of even years. 3(3-0) P: Completion of Tier I Writing Requirement Religion, culture and film in South Asia. Bollywood (Indian) films, with special focus on religion, gender, and globalization.
Effective Fall 2014 Effective Summer 2016

REL 485  Religion and Nonprofit Leadership
Religion and Nonprofit Leadership  (W)
Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement Religion, ethical leadership practices, and nonprofit organizations in both religious and secular contexts.
Effective Fall 2014 Effective Summer 2016
DEPARTMENT OF SUPPLY CHAIN MANAGEMENT

SCM 490 Independent Study
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
Supervised program of independent library or field research designed to supplement classroom study.
SA: MSC 490
Effective Spring 2013 Effective Fall 2015

SCM 491 Topics in Supply Chain Management
Fall of every year. Spring of every year. On Demand. 3(3-0) 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
Current issues in supply chain management. Advanced aspects of supply continuity and supply risk, environmentally friendly manufacturing, total quality management, supply chain metrics, electronic markets, relationship management, interfaces with research and development, innovation and other current issues in supply chain management.
SA: MSC 491
Effective Spring 2013 Effective Fall 2015

DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 370 Introduction to Grammar and Style in Professional Writing
Introduction to Grammar and Editing (W)
Fall of every year. Spring of every year. 3(3-0) P: (WRA 202) and completion of Tier I writing requirement R: Open to students in the Professional Writing Major or approval of department.
Theories, practice, and processes of grammar, style, and rhetorical issues for professional writers.
SA: AL 370
Effective Spring 2009 Effective Summer 2016

WRA 380 Managing Large-Scale Publication Projects (W)
Spring of every year. 3(3-0) P: (WRA 202) and completion of Tier I writing requirement R: Open to undergraduate students in the Professional Writing major or approval of department.
Development processes, role navigation, task management research, collaborative problem-solving approaches, and team processes involved in designing and creating publications
SA: WRA 451
DELETE COURSE
Effective Fall 2015

WRA 420 Content Management for Professional Writers
Content Strategy
Spring of every year. 3(3-0) P: (WRA 320) and completion of Tier I writing requirement R: Open to graduate students in the Rhetoric and Writing major and open to undergraduate students in the Professional Writing major or approval of department. R: Open to students in the Professional Writing Major and open to graduate students in the Department of Writing, Rhetoric and American Cultures or in the Professional Writing Major or approval of department.
SA: AL 420
Effective Fall 2009 Effective Summer 2016
WRA 455  Portfolio Seminar  
Spring of every year. 3(3-0) P: (WRA 202) and completion of Tier I writing requirement  R: Open to juniors in the Department of Writing, Rhetoric and American Cultures and open to seniors in the Department of Writing, Rhetoric and American Cultures. R: Open to seniors in the Department of Writing, Rhetoric and American Cultures. 
Workshop for students preparing professional document portfolios in print and digital formats, including application materials for career, graduate study, and professional positions. 
SA: AL 455  
Effective Fall 2010 Effective Summer 2016

WRA 470  Editing and Publishing  
Spring of every year. 3(3-0) P: (WRA 202 and WRA 370) and completion of Tier I writing requirement R: Open to students in the Professional Writing major and open to students in the Rhetoric and Writing major or approval of department.  
Theories, practice, and processes of editing in professional writing contexts. History and processes of the publishing industry and publishing in business, civic, and nonprofit contexts. 
DELETE COURSE  
Effective Summer 2015