MICHIGAN STATE UNIVERSITY

Report of

THE UNIVERSITY COMMITTEE ON CURRICULUM

to the Faculty Senate

March 19, 2019

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

This report is prepared and distributed for the following purposes:

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

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

Organized by colleges in alphabetical order. For a given college, academic units are organized in alphabetical order. For a given academic unit, degrees, majors, and specializations are organized in alphabetical order.

PART II - NEW COURSES:¹

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

PART III - COURSE CHANGES:¹

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

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

¹One or more of the abbreviations that follow may be included in a course entry:

P: = Prerequisite monitored in SIS
C: = Corequisite
R: = Restriction
RB: = Recommended background
SA: = Semester Alias
MICHIGAN STATE UNIVERSITY
March 19, 2019

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. Change the requirements for the Agricultural Technology Certificate in Agricultural Operations in The Institute of Agricultural Technology.
   a. Under the heading Requirements for Agricultural Operations make the following change:
      (1) In item 3., add the following community partner:

      3. Complete 26 credits of additional course work through the College of Agriculture and Natural Resources, a community college partner (Bay de Noc Community College, Delta, College, Glen Oaks Community College, Kellogg Community College, Monroe Community College, Montcalm Community College, Muskegon Community College, Southwestern Michigan College, West Shore Community College) or an approved transferring institution. All course work must be approved by the program coordinator in the Institute of Agricultural Technology.

      Effective Fall 2019.

2. 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 February 4, 2019 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 1., replace paragraph two with the following:

      The University’s Tier II writing requirement for the Agriculture, Food and Natural Resources major is met by completing Community Sustainability 301. That course is referenced in item 3., below.

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

      CSUS 330 Organizational Management for Community Sustainability 3

      Add the following course:

      CSUS 430 Non-Profit Organizational Management for Community Sustainability 3

      Effective Fall 2019.
3. Change the requirements for Bachelor of Science degree in Environmental Studies and Sustainability in the Department of Community Sustainability.

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

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

          The University’s Tier II writing requirement for the Environmental Studies and Sustainability major is met by completing Community Sustainability 301. That course is referenced in item 3. below.

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

          CSUS 330 Organizational Management for Community Sustainability (W) 3

          Add the following course:

          CSUS 430 Non-Profit Organizational Management for Community Sustainability 3

          CSUS 430 may only be used in fulfillment of item d. or item g.

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

          CSUS 425 Environmental Impact Assessment 3
          FW 419 Applications of Geographic Information Systems to Natural Resources Management 4

          Add the following course:

          FOR 419 Applications of Geographic Information Systems to Natural Resources Management 4

      (4) In item 3. g. delete the following course:

          CSUS 330 Organizational Management for Community Sustainability (W) 3

          Add the following course:

          CSUS 430 Non-Profit Organizational Management for Community Sustainability 3

          CSUS 430 may only be used in fulfillment of item d. or item g.

      (5) In item 3. h. delete the following course:

          CSUS 447 Community Economic Development 3

Effective Fall 2019.
4. Change the requirements for the Bachelor of Landscape Architecture degree in Landscape Architecture in the School of Planning, Design and Construction to the following. The University Committee on Undergraduate Education (UCUE) approved this request.

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

**Admission**

The number of students who can be admitted as sophomores to the landscape architecture major is limited. To be admitted to the Bachelor of Landscape Architecture program, the following factors will be taken into consideration:

1. Completion of 28 credits.
2. Submission of a completed Landscape Architecture application package by the deadline specified by the School.
3. Achieve a grade of 2.0 or higher in the following core Landscape Architecture courses:
   a. LA 140 Graphics and Two-Dimensional Design Studio
   b. LA 141 Graphics and Three-Dimensional Design Studio
   c. LA 200 Introduction to Landscape Architecture
4. Completion of the University, College and School mathematics requirement referenced in item 2. b. (2) below.
5. Completion of PDC 120 Planning and Design Digital Graphics.

Admissions are determined by the faculty on the basis of the relative qualifications of applicants and the enrollment capacity in the program. Admission is competitive. Transfer students and students with 28 or more credits who want to change their major to Landscape Architecture may have previous design work evaluated by the program prior to placement in landscape architecture second-year courses and above.

b. Under the heading Requirements for the Bachelor of Landscape Architecture Degree in Landscape Architecture replace the entire entry with the following:

1. The University requirements for bachelor's degrees as described in the Undergraduate Education section of this catalog; 130 credits, including general elective credits, are required for the Bachelor of Landscape Architecture degree in Landscape Architecture.

Students who are enrolled in the Landscape Architecture major leading to the Bachelor of Landscape Architecture degree in the School of Planning, Design and Construction may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Plant Biology 105, an ISP course and ISP laboratory. The completion of the ISP course and ISP laboratory satisfies the laboratory requirement. Plant Biology 105 may be counted toward both the alternative track and the requirements for the major referenced in item 2. below.

The completion of Mathematics 116, or Mathematics 103 and 114, or Mathematics 103 and Statistics and Probability 200 or 201 referenced in requirement 2. below may also satisfy the University mathematics requirement.

The University's Tier II writing requirement for the Landscape Architecture major is met by completing Landscape Architecture 480. That course is referenced in item 2. c. below.

The following requirements for the major:

a. A cumulative MSU minimum grade–point average of 2.00 in all Landscape Architecture courses referenced in requirement 2.c. below.

b. Collateral Courses (30 to 35 credits):
   1. All of the following courses (22 credits):
      
      | Course   | Credits |
      |----------|---------|
      | HRT 211  | 3       |
      | HRT 212  | 3       |
      | HRT 213  | 3       |
### PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRT 311</td>
<td>Landscape Design and Management Specifications</td>
<td>4</td>
</tr>
<tr>
<td>ISS 310</td>
<td>People and the Environment (I)</td>
<td>4</td>
</tr>
<tr>
<td>PDC 120</td>
<td>Planning and Design Digital Graphics</td>
<td>2</td>
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<tr>
<td>PLB 105</td>
<td>Plant Biology</td>
<td>3</td>
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<tr>
<td>UP 424</td>
<td>Geographic Information Systems and Design Tools</td>
<td>3</td>
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<tr>
<td>(2)</td>
<td>One of the following groups (5 to 7 credits):</td>
<td></td>
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<tr>
<td>(a)</td>
<td>MTH 116 College Algebra and Trigonometry</td>
<td>5</td>
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<tr>
<td>(b)</td>
<td>MTH 103 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>And</td>
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<tr>
<td>(c)</td>
<td>MTH 114 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH 103 College Algebra</td>
<td>3</td>
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<td></td>
<td>STT 200 Statistical Methods</td>
<td>3</td>
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<td></td>
<td>Or</td>
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<td></td>
<td>STT 201 Statistical Methods</td>
<td>4</td>
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<tr>
<td>(3)</td>
<td>Students must demonstrate AutoCAD proficiency</td>
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<td></td>
<td>through transfer credit, waiver or completion of</td>
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<td></td>
<td>the following course (0 to 3 credits):</td>
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<tr>
<td></td>
<td>MTH 116 College Algebra and Trigonometry</td>
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<tr>
<td></td>
<td>MTH 103 College Algebra</td>
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<td>And</td>
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<tr>
<td></td>
<td>MTH 114 Trigonometry</td>
<td>3</td>
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<td></td>
<td>MTH 103 College Algebra</td>
<td>3</td>
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<td></td>
<td>STT 200 Statistical Methods</td>
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<td></td>
<td>Or</td>
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<tr>
<td></td>
<td>STT 201 Statistical Methods</td>
<td>4</td>
</tr>
<tr>
<td>(4)</td>
<td>One of the following courses (3 credits):</td>
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<td></td>
<td>EC 201 Introduction to Microeconomics</td>
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<tr>
<td></td>
<td>EC 202 Introduction to Macroeconomics</td>
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<td>(c)</td>
<td>Landscape Architecture Courses: All of the following courses (61 credits):</td>
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<tr>
<td></td>
<td>LA 140 Graphics and Two-Dimensional Design Studio</td>
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<tr>
<td></td>
<td>LA 141 Graphics and Three-Dimensional Design Studio</td>
<td>4</td>
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<td></td>
<td>LA 200 Introduction to Landscape Architecture</td>
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<td></td>
<td>LA 230 Site Construction Materials and Methods</td>
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<td>LA 231 Landscape Site Engineering</td>
<td>4</td>
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<td></td>
<td>LA 242 Creating Space Studio</td>
<td>4</td>
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<td>LA 243 Place Making Studio</td>
<td>4</td>
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<td></td>
<td>LA 332 Advanced Landscape Site Engineering</td>
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<td>LA 344 Connections of Scale Studio</td>
<td>5</td>
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<td></td>
<td>LA 345 Design Development Studio</td>
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<td></td>
<td>LA 390 Landscape Architecture Field Studies</td>
<td>3</td>
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<td></td>
<td>LA 421 Drawing as Knowing</td>
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<tr>
<td></td>
<td>LA 447 Juried Design Studio</td>
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<td></td>
<td>LA 448 Regional Environmental Design Studio</td>
<td>2</td>
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<td></td>
<td>LA 449 Landscape Architecture Design Studio</td>
<td>3</td>
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<td></td>
<td>LA 480 Professional Practice in Landscape Architecture (W)</td>
<td>3</td>
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<tr>
<td>(d)</td>
<td>Directed Electives (14 credits):</td>
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<td>A minimum of 14 additional credits in courses</td>
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<td>approved by the student's academic advisor and</td>
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<td>program director. Courses that are used to satisfy</td>
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<td>the University Integrative Studies and writing</td>
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<tr>
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<td>requirements may not be used to satisfy this</td>
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<td></td>
<td>requirement. Courses used to satisfy the AutoCAD</td>
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<td></td>
<td>proficiency requirement referenced in item 2 b. (3)</td>
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<tr>
<td></td>
<td>above may not be used to satisfy this requirement.</td>
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<td>Effective Fall 2019.</td>
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</tbody>
</table>

5. **Change the requirements for the Master of Science degree in Construction Management** in the School of Planning, Design and Construction to the following. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

   a. **Under the heading Admission** replace paragraph three with the following:

   Applicants who do not meet the requirements referenced in item 1. and 4. above may be required to complete specified collateral courses with a grade-point average of at least 3.00. These courses will not count toward the degree. The guidance committee will determine which courses are required as collateral courses for each applicant.
b. Under the heading **Requirements for the Master of Science Degree in Construction Management** replace the entire entry with the following:

The student must complete a total of 30 credits for the degree under Plan A (with thesis) or 33 credits for the degree under Plan B (without thesis). For students who elect independent study courses, including Construction Management 890, no more than 6 credits under Plan A and 9 credits under Plan B may be counted toward the requirements for the degree. The student’s program of study must be approved by the student’s academic advisor and must meet the requirements specified below:

**Requirements for Plan A**

1. A minimum of 18 credits in 800–900 level courses.
2. All of the following courses:
   - CMP 817 Construction Project Management and Information Systems 3
   - CMP 822 Contracts and Legal Issues in Construction 3
   - CMP 893 Elements and Methods of Research for Built Environment 3
3. One additional 800-level Construction Management course, excluding Construction Management 890, 898, and 899. Students without a background in construction methods, project scheduling and estimating must complete Construction Management 801, 811 and 815 in partial fulfillment of this requirement.
4. One 400-level course or above in statistics.

**Additional Requirements for Plan A**

1. Complete 6 credits of Construction Management 899. No more than 6 credits may be counted toward the requirements for the degree under Plan A.
2. Complete and defend a master’s thesis acceptable to the student’s guidance committee.

**Requirements for Plan B**

1. A minimum of 24 credits in 800–900 level courses.
2. All of the following courses:
   - CMP 817 Construction Project Management and Information Systems 3
   - CMP 822 Contracts and Legal Issues in Construction 3
   - CMP 893 Elements and Methods of Research for Built Environment 3
3. One additional 800-level Construction Management course, excluding Construction Management 890, 898, and 899. Students without a background in construction project scheduling and estimating must complete Construction Management 801, 811 and 815 in partial fulfillment of this requirement.
4. One 400-level course or above in statistics.

**Additional Requirements for Plan B**

Completion of one of the following:

1. Successfully complete the final examination given by the guidance committee.
2. Pass the AIC Level 1 certification examination.
3. Complete 3 credits of Construction Management 898. No more than 3 credits may be counted towards the requirements for the degree under Plan B. Successfully complete the Plan B report acceptable to the guidance committee.

Effective Fall 2019.
COLLEGE OF ARTS AND LETTERS

1. Change the requirements for the Bachelor of Arts degree in Apparel and Textiles in the Department of Art, Art History, and Design.

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

      (1) In item 3. b. change the total credits from ‘20 to 22’ to ‘18 to 23’.

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

            ATD 222 Structuring, Couture and Tailored Garments 4
            ATD 323 Apparel Pattern Design 4
            ATD 493 Internship in Apparel and Textiles 1 to 3

            Add the following courses:

            ATD 222 Structuring, Couture and Tailored Garments 3
            ATD 323 Apparel Pattern Design 3
            ATD 493 Internship in Apparel and Textiles 1 to 6

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

            ATD 325 Design by Draping 4
            ATD 332 Textile Design 4
            ATD 335 Design Development and Presentation 4
            ATD 423 Design Methods and Approaches 4
            ATD 424 Specialized Design 4
            ATD 427 Knitwear Design 4
            ATD 428 Design Studio 4
            ATD 493 Internship in Apparel and Textiles 1 to 6

            Add the following courses:

            ATD 325 Design by Draping 3
            ATD 332 Textile Design 3
            ATD 335 Design Development and Presentation 3
            ATD 423 Design Methods and Approaches 3
            ATD 424 Specialized Design 3
            ATD 427 Knitwear Design 3
            ATD 428 Design Studio 3

   Effective Fall 2019.

2. Change the requirements for the Bachelor of Fine Arts degree in Apparel and Textile Design in the Department of Art, Art History, and Design.

   a. Under the heading Requirements for the Bachelor of Fine Arts Degree in Apparel and Textile Design make the following changes:

      (1) In item 3. d. change the total credits from ‘20 to 22’ to ‘18 to 23’.

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

            ATD 222 Structuring, Couture and Tailored Garments 4
            ATD 323 Apparel Pattern Design 4
            ATD 493 Internship in Apparel and Textiles 1 to 3

            Add the following courses:

            ATD 222 Structuring, Couture and Tailored Garments 3
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

ATD 323 Apparel Pattern Design 3
ATD 493 Internship in Apparel and Textiles 1 to 6

(3) In item 3. e. change the total credits from ‘18 to ‘20’ to ‘15’.

(4) In item 3. e. delete the following courses:

ATD 325 Design by Draping 4
ATD 332 Textile Design 4
ATD 335 Design Development and Presentation 4
ATD 423 Design Methods and Approaches 4
ATD 424 Specialized Design 4
ATD 427 Knitwear Design 4
ATD 428 Design Studio 4

Add the following courses:

ATD 325 Design by Draping 3
ATD 332 Textile Design 3
ATD 335 Design Development and Presentation 3
ATD 423 Design Methods and Approaches 3
ATD 424 Specialized Design 3
ATD 427 Knitwear Design 3
ATD 428 Design Studio 3

Effective Fall 2019.

3. Change the requirements for the Bachelor of Arts degree in Theatre in the Department of Theatre.

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

(1) In item 1. change the total credits from ‘26’ to ‘27’.

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

THR 492 Senior Seminar (W) 3

Add the following courses:

THR 292 Sophomore Seminar 2
THR 492 Senior Seminar (W) 2

(3) In item 3. a. (3) change the credits from ‘10’ to ‘9’.

Effective Fall 2019.

4. Change the requirements for the Bachelor of Fine Arts degree in Theatre in the Department of Theatre. The University Committee on Undergraduate Education (UCUE) approved this request at its February 7, 2019 meeting.

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

(1) Replace item 3. a. change the total credits from ‘26’ to ‘27’ and delete the following course:

THR 492 Senior Seminar (W) 3
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

Add the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 292</td>
<td>Sophomore Seminar</td>
<td>2</td>
</tr>
<tr>
<td>THR 492</td>
<td>Senior Seminar (W)</td>
<td>2</td>
</tr>
</tbody>
</table>

(2) In item 3. c. make the following changes:

(a) Change the total credits from ‘31’ to ‘30’.

(b) In the Acting concentration make the following changes:

(i) In item (2) change the credits from ‘21’ to ‘20’.

(c) In the Design concentration make the following changes:

(i) In item (3) and change the credits from ‘19’ to ‘18’ and change the credits from ‘3’ to ‘1 to 6’ in the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 361</td>
<td>Topics in Lighting Technology</td>
<td>1 to 6</td>
</tr>
<tr>
<td>THR 362</td>
<td>Topics in Costume Technology</td>
<td>1 to 6</td>
</tr>
<tr>
<td>THR 364</td>
<td>Topics in Scenery Technology</td>
<td>1 to 6</td>
</tr>
<tr>
<td>THR 369</td>
<td>Topics in Digital Technology</td>
<td>1 to 6</td>
</tr>
</tbody>
</table>

(d) In the Stage Management concentration make the following changes:

(1) In item (3) change the total credits from ‘16’ to ‘15’ and change the credits from ‘3’ to ‘1 to 6’ in the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR 361</td>
<td>Topics in Lighting Technology</td>
<td>1 to 6</td>
</tr>
<tr>
<td>THR 362</td>
<td>Topics in Costume Technology</td>
<td>1 to 6</td>
</tr>
<tr>
<td>THR 364</td>
<td>Topics in Scenery Technology</td>
<td>1 to 6</td>
</tr>
<tr>
<td>THR 369</td>
<td>Topics in Digital Technology</td>
<td>1 to 6</td>
</tr>
</tbody>
</table>

Effective Fall 2019.

5. Change the requirements for the Minor in Theatre in the Department of Theatre.

a. Under the heading Requirements for the Minor in Theatre replace the entire entry with the following:

Complete 18 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THR 101</td>
<td>Acting I</td>
<td>3</td>
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<td>THR 101N</td>
<td>Acting for Non-Theatre Majors</td>
<td>3</td>
</tr>
<tr>
<td>THR 110</td>
<td>Theatrical Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THR 110N</td>
<td>Theatrical Play Analysis for Non-Theatre Majors</td>
<td>3</td>
</tr>
<tr>
<td>THR 111</td>
<td>Introduction to Technical Theatre</td>
<td>3</td>
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<td>THR 111L</td>
<td>Introduction to Technical Theatre Laboratory</td>
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</tr>
<tr>
<td>THR 300A</td>
<td>Theatre Practicum – Production Emphasis</td>
<td>1</td>
</tr>
<tr>
<td>THR 300C</td>
<td>Theatre Practicum – Area Emphasis</td>
<td>1</td>
</tr>
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</table>

4. Complete an additional 6 credits of Theatre electives.

Effective Fall 2019.
ELI BROAD COLLEGE OF BUSINESS

1. Change the Admission to the College requirements in The Eli Broad College of Business. The University Committee on Undergraduate Education (UCUE) approved this request at its February 7, 2019 meeting.

a. Under the heading Admission to the College make the following changes:

   (1) Replace paragraph five with the following:

   Minimum criteria for admission to the college are:
   
   1. Completion of 28 credits.
   2. Completion of Computer Science and Engineering 102.
   3. Completion of the following precore courses:
      a. Statistics 200 or approved substitute.
      b. University’s Tier I writing requirement. One course from WRA 101, WRA 195H, LB 133, MC 111, MC 112, or RCAH 111.
      c. Economics 201 or 202.
      If both Economics 201 and 202 are completed at the time of admission consideration, both courses will be considered in the admission decision.

   Effective Fall 2019.

2. Change the Graduation Requirements for the Bachelor of Arts degree in the Eli Broad College of Business. The University Committee on Undergraduate Education (UCUE) approved this request at its February 7, 2019 meeting.

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

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

   The completion of Mathematics 103 and Statistics 200 or 201 or 315 [referenced in item 2. a. below] may also satisfy the University mathematics requirement.

   (2) In item 2., change the total credits from ‘57 or 58’ to ‘54 or 55’.

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

   (a) Change the total credits from ‘21 or 22’ to ‘18 or 19’.

   (b) Delete the following courses:

   CSE 101 Computing Concepts and Competencies 3
   MGT 250 Business Communication: Oral and Written Skills 3
   MTH 124 Survey of Calculus I 3

   Add the following courses:

   CSE 102 Algorithmic Thinking and Programming 3
   MKT 250 Business Communication: Oral and Written Skills 3

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

   Students who place into Statistics 200 on the mathematics placement test and who complete Statistics 200 will not be required to complete Mathematics 103.
(d) In item 5., note that courses that are used to satisfy BUSINESS CORE PROGRAM requirements [referenced in item 2. a., b., and d. above] may not be used to satisfy this requirement.

(e) Replace item 6. with the following:

A maximum of 3 credits of internship or other work experience may be earned towards a Bachelor of Arts degree in the college.

Effective Fall 2019.

3. Change the requirements for the Master of Business Administration: Program in Integrative Management degree in the Eli Broad College of Business. The University Committee on Graduate Studies (UCGS) approved this request at their February 11, 2019 meeting.

a. Under the heading Requirements for the Master of Business Administration Degree in Integrative Management make the following changes:

(1) Add the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIM 832</td>
<td>Entrepreneurship</td>
<td>1 to 3</td>
</tr>
<tr>
<td>PIM 845</td>
<td>Mergers, Acquisitions and Corporate Restructuring</td>
<td>1 to 3</td>
</tr>
<tr>
<td>PIM 851</td>
<td>Business Analytics and Management Decision-Making</td>
<td>1 to 3</td>
</tr>
<tr>
<td>PIM 856</td>
<td>Strategic Management II</td>
<td>1 to 3</td>
</tr>
</tbody>
</table>

Effective Summer 2019.

4. Change the requirements for the Bachelor of Arts degree in Accounting in the Department of Accounting and Information Systems.

a. Under the heading Requirements for the Bachelor of Arts Degree in Accounting make the following change:

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

Students may earn a maximum of 2 credits of internship or other work experience, in two distinct 1 credit enrollments, to count towards the Bachelor of Arts degree in Accounting.

Effective Fall 2019.

5. Change the requirements for the Master of Science degree in Healthcare Management in the Eli Broad College of Business. The University Committee on Graduate Studies (UCGS) approved this request at its February 7, 2019 meeting.

The concentrations in the Master of Science degree in Healthcare Management are noted on the student’s academic record when the requirements for the degree have been completed.

a. Under the heading Requirements for the Master of Science Degree in Healthcare Management in item 1. make the following change:

(1) Delete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 803</td>
<td>Financial Analysis in Healthcare</td>
<td>2</td>
</tr>
</tbody>
</table>
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

Add the following course:

HCM 825 Analytics in Healthcare 2

Effective Summer 2019.

6. Change the requirements for the Master of Science degree in Management Studies in the Eli Broad College of Business. The University Committee on Graduate Studies (UCGS) approved this request at its February 7, 2019 meeting.

a. Under the heading Requirements for the Master of Science Degree in Management Studies make the following change:

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

   MBA 802 Financial Accounting and Reporting Strategy 2

   Add the following course:

   MBA 812 Accounting for Decision Making and Control 2

Effective Fall 2019.

7. Change the requirements for the Bachelor of Arts degree in Supply Chain Management in the Department of Supply Chain Management.

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

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

   The completion of Mathematics 103 and Statistics and Probability 200, referenced in item 2. below, may also satisfy the University mathematics requirement.

   (2) In item 3. a. (1) change the total credits from ‘15 or 16’ to ‘16’.

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

   (4) In item 3. a. (2) change the credits of SCM 470 from ‘2’ to ‘3’.

Effective Fall 2019.

8. Change the requirements for the Master of Science degree in Supply Chain Management in the Department of Supply Chain Management. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

a. Under the heading Admission, add the following item 6.:

   Be prepared for a review of undergraduate transcripts for quantitative content and the grades achieved in those quantitative courses.

b. Under the heading Requirements for the Master of Science Degree in Supply Chain Management make the following changes:
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

(1) Delete the following course:

MGT 875 Change Management 2

Effective Fall 2019.

COLLEGE OF ENGINEERING

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

The concentrations in the Bachelor of Science degree in Chemical 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 Chemical Engineering make the following changes:

(1) In the Concentrations in Chemical Engineering make the following changes:

(a) Under the heading Environmental delete the following courses from the elective listing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEP 255</td>
<td>Ecological Economics</td>
<td>3</td>
</tr>
<tr>
<td>EEP 320</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>EEP 405</td>
<td>Corporate Environmental Management (W)</td>
<td>3</td>
</tr>
</tbody>
</table>

Add the following courses to the elective listing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEM 255</td>
<td>Ecological Economics</td>
<td>3</td>
</tr>
<tr>
<td>EEM 320</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>EEM 405</td>
<td>Corporate Environmental Management (W)</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Fall 2019.

2. Change the requirements for the Bachelor of Science degree in Biosystems Engineering in the Department of Biosystems and Agricultural Engineering.

The concentrations in the Bachelor of Science degree in Biosystems 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 Biosystems Engineering make the following changes:

(1) In item 3., make the following changes:

(a) In item d. delete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLD 450</td>
<td>Eukaryotic Pathogens</td>
<td>3</td>
</tr>
</tbody>
</table>

Add the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMG 365</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 484</td>
<td>Water Resource Recovery Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

b. Under the heading **Concentration in Biosystems Engineering** make the following changes:

(1) In the **Bioenergy Bioenergy and Bioproduct Engineering** concentration make the following change:

(a) In item 2, delete the following course:

| BE 457 | Bioenergy Feedstock Systems Analysis | 3 |

(2) In the **Biomedical Engineering** concentration make the following changes:

(a) In item 2, delete the following course:

| BLD 450 | Eukaryotic Pathogens | 3 |

Add the following course:

| MMG 365 | Medical Microbiology | 3 |

(b) In item 3, delete the following course:

| BLD 450 | Eukaryotic Pathogens | 3 |

Add the following courses:

| BLD 313 | Quality in Clinical Laboratory Practice | 3 |
| MMG 365 | Medical Microbiology | 3 |

(3) In the **Ecosystems Engineering** concentration make the following changes:

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

| FOR 404 | Forest Ecology | 3 |
| FW 443 | Restoration Ecology | 3 |

Add the following courses:

| FOR 340 | Forest Ecology | 3 |
| PLB 443 | Restoration Ecology | 3 |

Effective Fall 2019.

3. Change the requirements in the **Bachelor of Science** degree in **Mechanical Engineering** in the Department of Mechanical Engineering.

*The concentrations in the Bachelor of Science degree in Mechanical 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 Mechanical Engineering** make the following changes:

(1) Under the heading **Aerospace Engineering** concentration replace the requirements with the following:

Both of the following courses (6 credits):

| ME 440 | Aerospace Propulsion | 3 |
| ME 441 | Aerodynamics and Aircraft Performance | 3 |

One of the following courses (3 credits):

| ME 423 | Intermediate Mechanics of Deformable Solids | 3 |
| ME 426 | Introduction to Composite Materials | 3 |
| ME 475 | Computer Aided Design of Structures | 3 |
PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

One of the following courses (3 credits):
ME 422 Introduction to Combustion 3
ME 433 Introduction to Computational Fluid Dynamics 3
ME 442 Turbomachinery 3

(2) Under the heading Energy concentration replace the requirements with the following:

Both of the following courses (6 credits):
ME 416 Computer Assisted Design of Thermal Systems 3
ME 417 Design of Alternative Energy Systems 3
Two of the following courses (6 credits):
ME 422 Introduction to Combustion 3
ME 440 Aerospace Propulsion 3
ME 442 Turbomachinery 3
ME 444 Automotive Engines 3

Effective Fall 2019.

COLLEGE OF LAW

1. Change the requirements for the Master of Jurisprudence (M.J.) degree and the Master of Laws (LL.M.) degree in American Legal System in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

a. Under the heading LL.M. and M.J. in the American Legal System replace the section on Academic Requirements with the following:

All students must complete 24 credits within two academic years. A longer time period may be granted with a waiver.

CREDITS

1. One of the following courses:
   LAW 530D Research, Writing and Analysis 2
   LAW 530E Research, Writing and Analysis: Intellectual Property Perspective 2
   LAW 530N Research, Writing, and Analysis: Criminal Law Perspective 2
   LAW 530Q Research, Writing and Analysis: Social Justice Perspectives 2

2. Two of the following courses:
   LAW 500F Criminal Law 3
   LAW 500G Property 4
   AW 500M Business Enterprises 3 or 4
   LAW 500N Constitutional Law II 4
   LAW 500R Torts I 4
   LAW 530B Contracts 4
   LAW 532 Administrative Law 2 or 3

3. Electives: Complete additional electives to achieve 24 credits by designing a curriculum in consultation with the student’s academic advisor based upon the student’s professional needs and interests using the standard set of classes offered to current J.D. students.

Effective Fall 2019.
2. Change the requirements for the Master of Jurisprudence (M.J.) degree and the Master of Laws (LL.M.) degree in Intellectual Property and Communications Law in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

   a. Under the heading LL.M. and M.J. in Intellectual Property and Communications Law make the following changes under the section on Academic Requirements:

      (1) Change item 1. to the following:

      One of the following courses:
      LAW 530D Research, Writing and Analysis 2
      LAW 530E Research, Writing and Analysis: Intellectual Property Perspective 2

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

      LAW 533Q Communications Law and Policy 3

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

      LAW 520 Entertainment Law 2
      LAW 533A Advanced Patent Law 2
      LAW 533D E-Commerce 3
      LAW 533Z Intellectual Property and Cultural Protection 2
      LAW 534 Biotechnology and Pharmacy Patents 2

      (4) Delete item 5.

Effective Fall 2019.

COLLEGE OF NATURAL SCIENCE

1. Change the requirements for the Master of Science degree in Neuroscience in the Program in Neuroscience. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

   a. Under the heading Admission make the following change:

      (1) In paragraph three, delete item 3.:

      Have the results of the Graduate Record Examination (GRE) General Test forwarded to the College of Natural Science.

   b. Under the heading Requirements for the Master of Science Degree in Neuroscience make the following changes:

      (1) Under the heading Requirements for Plan A and Plan B replace the entire entry with the following:

      1. Complete all of the following courses (17 credits):
      NEU 801 Molecular, Cellular and Developmental Neuroscience I 3
      NEU 802 Systems and Behavioral Neuroscience I 3
      NEU 803 Molecular, Cellular and Developmental Neuroscience II 3
      NEU 805 Systems and Behavioral Neuroscience II 3
      NEU 807 Strategies in Neuroscience Research 2
      NEU 815 Quantitative Skills in Neuroscience Research 3
2. The following course (3 credits):
   PHM 830 Experimental Design and Data Analysis  3
3. Complete a minimum of 6 credits in Neuroscience 800 or 899.
   Plan A students must complete 4 credits of Neuroscience 899.
4. Complete an additional 4 credits of elective courses related to the student’s research and approved by the student’s guidance committee.
5. Complete a one-semester laboratory rotation with each of two neuroscience faculty in the first year of study. Students will select the two laboratories in which they will rotate at the beginning of fall semester based on discussions and mutual agreement with neuroscience faculty members.
6. All students must complete Responsible Conduct of Research Training. All students are required to complete the laboratory safety and animal use training tutorials and put together an Individual Development Plan based on their career goals.

Effective Fall 2019.

2. Change the name of the Doctor of Philosophy degree in Genetics to Genetics and Genome Sciences in the College of Natural Science. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

Students admitted to the major prior to Fall 2019 will be awarded a Doctor of Philosophy Degree in Genetics.

Students admitted to the major Fall 2019 and forward will be awarded a Doctor of Philosophy Degree in Genetics and Genome Sciences.

Effective Fall 2019.

3. Change the requirements for the Doctor of Philosophy degree in Genetics and Genome Sciences in the College of Natural Science. The University Committee on Graduate Studies (UCGS) approved this request at its February 11, 2019 meeting.

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

   To be considered for admission to the Doctor of Philosophy degree program with a major in genetics and genome sciences, a student must have a bachelor's degree with a minimum grade–point average of 3.0 and appropriate background in the biological and physical sciences. Admission to the program is through the BioMolecular Science Gateway – First Year. In special cases an applicant who has deficiencies, may be admitted on a provisional basis. Applicants admitted on a provisional basis must remove these deficiencies within one year of admission to the genetics and genome sciences program.

b. Under the heading Requirements for the Doctor of Philosophy Degree in Genetics and Genome Sciences replace the entire entry with the following:

   The program of study is planned by the student in consultation with the major professor and a guidance committee. Specific courses in genetics, as well as courses in other areas considered relevant to the student's interests and chosen research area, are included in the program. Students in the program will write and defend a research dissertation which shows original treatment of an important research problem. A detailed description of the genetics and genome sciences program and of the research interests of the genetics and genome sciences faculty may be found at https://genetics.natsci.msu.edu.

Effective Fall 2019.
COLLEGE OF SOCIAL SCIENCE


   a. Under the heading Master of Social Work replace the entire entry with the following:

   The Master of Social Work degree program includes extensive required courses and course sequences in social work. Only Plan B (without thesis) is available.

   In addition to meeting the requirements of the university and of the College of Social Science, students must meet the requirements specified below.

Admission to the Master of Social Work Degree Program

All students begin the Master of Social Work degree program in the fall semester to align their enrollment with the sequencing of required courses. Therefore, applicants should seek admission during the previous fall semester. Students wishing to be considered for admission must complete all the application materials described on the School of Social Work Web site at www.socialwork.msu.edu. Although an undergraduate major or concentration in the social sciences or in social work may be helpful, it is not required.

To be considered for admission to the Master of Social Work degree program, a person must have:

1. A Bachelor of Arts or Bachelor of Science degree from a recognized institution. (Bachelor of Applied Science degrees are not accepted)
2. A grade–point average of at least 3.0 (on a 4.0 scale) during undergraduate study or in 14 or more credits of graduate study. The grade-point average in the last 60 credits or their equivalents of undergraduate course work is primarily considered.
3. Evidence of personal qualities considered important for the practice of social work, as demonstrated through the applicant statement and letters of reference.
4. Prior academic work reflecting a liberal arts perspective with 19 credits in humanities and social and natural sciences, such as courses in sociology, psychology, anthropology, history, philosophy, literature and languages.

In addition to these requirements, applicants to the Statewide Blended and Weekend program options must meet additional requirements. For Statewide Blended, applicants must:

1. Live more than 30 miles from both the East Lansing and Flint campuses.
2. Live in the state of Michigan, or if out-of-state, within 50 miles of the Michigan border.
3. Have regular access to high-speed internet service.
4. Complete an online assessment and orientation program on how to learn effectively in the online environment.
5. Applicants may also be asked to participate in a personal interview.

For Weekend, applicants must:

1. Live in the state of Michigan, or if out-of-state, within 50 miles of the Michigan border.
2. Have regular access to high-speed internet service.
3. Complete an online assessment and orientation program on how to learn effectively in the online environment.
4. Applicants may also be asked to participate in a personal interview.
Requirements for the Master of Social Work Degree Program

The student must complete 57 credits in specified instruction in social work. Detailed plans of study are available in the Master of Social Work Manual which is available at www.socialwork.msu.edu. Required course work for both the Clinical Social Work major and the Organization and Community Leadership major are taken in the following areas: social work practice methods, human behavior and the social environment, social welfare policy, research methods, and field education.

Admission to the Advanced Standing Master of Social Work Program

Persons who hold a recent bachelor’s degree in social work from a program that is accredited by the Council on Social Work Education (CSWE) may apply for admission to the Advanced Standing Master of Social Work Program.

Students begin the program in summer session. Applicants should therefore seek admission during the previous fall semester. Students wishing to be considered for admission must complete all the application materials described on the School of Social Work Web site www.socialwork.msu.edu.

To be considered for admission to the Advanced Standing Master of Social Work program, a person must have:

1. A bachelor’s degree in social work granted within the last six years from a program that is accredited by the Council on Social Work Education (CSWE).
2. A grade-point average of at least 3.25 (on a 4.0 scale) during undergraduate study. The grade-point average in the last 60 credits or their equivalents of undergraduate course work is primarily considered.
3. Evidence of personal qualities considered important for the practice of social work as demonstrated through the applicant statement and letters of reference.
4. Prior academic work reflecting a liberal arts perspective with 19 credits in humanities and social and natural sciences, such as courses in sociology, psychology, anthropology, history, philosophy, literature, and languages.

In addition, applicants to the Statewide Blended Advanced Standing program must also:

1. Live more than 30 miles from both the East Lansing, Oakland, and Mid-Michigan campuses.
2. Live in the state of Michigan, or if out-of-state, within 50 miles of the Michigan border.
3. Have regular access to high-speed internet service.
4. Complete an online assessment and orientation program on how to learn effectively in the online environment.
5. Applicants may also be asked to participate in a personal interview.

Requirements for the Advanced Standing Master of Social Work Program

The student must complete 38 credits in specified instruction in social work. Detailed plans of study are available in the Master of Social Work Manual which is available at www.socialwork.msu.edu. Required course work for both the Clinical Social Work major and the Organization and Community Leadership major are taken in the following areas: social work practice methods, social welfare policy, research methods, and field education.

Residence

One year of residence consisting of two consecutive semesters and involving at least 7 credits of graduate course work each semester is required. If students attend part-time, the residency requirement must be met in the year that the advanced methods and practicum courses are being completed.
Part-Time Students

Both the Master of Social Work program and the Advanced Standing Master of Social Work program are available on a part-time basis.

At the time of admission, students must apply for either part-time or full-time study. Students may transfer between part-time and full-time study with approval of the School. The process is outlined in the MSW Handbook.

Part-time students must progress through a plan of study as specified by the school. All students must meet their residence requirements during the year in which they are enrolled in the advanced practice and field instruction courses.

Effective Fall 2019.
PART II - NEW COURSES

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

ACC 491  Special Topics in Accounting and Information Systems
On Demand. 1 to 3 credits. P: (ACC 201 and ACC 202) and (ACC 300 or ACC 305) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to students in the Department of Accounting and Information Systems or in the Department of Finance. Current and emerging issues in accounting and information systems. Effective Spring 2019

DEPARTMENT OF ART, ART HISTORY AND DESIGN

GD 490  Independent Study
Fall of every year. Spring of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Special projects arranged by an individual student and faculty member in areas supplementing regular course offerings. Effective Fall 2019

STA 343  Ceramics: Mold Making, Casting, and Serial Production
Spring of every year. 3(0-6) P: STA 110 and STA 112 and STA 113 and STA 114 RB: STA 340 Design forms for serial production through hands-on experiences. Modeling techniques, plaster mold making, slip casting, glazing, and digital decal processes. Effective Spring 2020

STA 480  Advanced Electronic Arts and Intermedia
Spring of every year. 4(0-8) A student may earn a maximum of 20 credits in all enrollments for this course. P: STA 384 or STA 385 or approval of department

REINSTATEMENT  Presentation of student's ongoing research and creative projects within an interdisciplinary framework. Effective Spring 2019

DEPARTMENT OF BIOSYSTEMS AND AGRICULTURAL ENGINEERING

BE 484  Water Resource Recovery Engineering
Spring of every year. 3(3-0) P: BE 360 or approval of department R: Open to juniors or seniors or graduate students in the College of Agriculture and Natural Resources or in the College of Engineering. Municipal, industrial, and rural wastewater characteristics. Selection of best site- and management-specific treatment strategy, including the influence of governmental policy and societal needs. Effective Fall 2019

ELI BROAD COLLEGE OF BUSINESS

HCM 825  Analytics in Healthcare
Fall of every year. Spring of every year. Summer of every year. 2(2-0) Overview of the concepts and methods of business analytics as it relates to healthcare management. Examination of the role of analytics in transforming the business practice of healthcare, including a better assessment of cost effectiveness, learning curves in the practice of medicine, identifying best practices for evidence-based medicine. Effective Spring 2019
PART II – NEW COURSES

PIM 832  Entrepreneurship
Spring of every year. 1 to 3 credits. R: Open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Master of Business Administration in Integrative Management.
   Developing an entrepreneurial mindset. Skills of ideation, business model creation, market assessment and validation, and go-to-market strategies.
   Effective Fall 2019

PIM 845  Mergers, Acquisitions and Corporate Restructuring
Fall of every year. 1 to 3 credits. R: Open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Master of Business Administration in Integrative Management.
   Strategic issues associated with major changes in a firm's asset or liability structure, including mergers, acquisitions, divestitures, activist investors, and leveraged buyouts. Issues will be examined in the context of a firm's overall strategic goals, with a focus on financial strategies.
   Effective Fall 2019

PIM 851  Business Analytics and Management Decision-Making
Fall of every year. 1 to 3 credits. R: Open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Master of Business Administration in Integrative Management.
   Business analytics in shaping competitive advantage and business transformation. Examination of how data visualization and predictive modeling provides new venues of managerial decision-making. Examples from different domains such as marketing, finance, supply chain and human resources.
   Effective Fall 2019

PIM 856  Strategic Management II
Spring of every year. 1 to 3 credits. P: PIM 855 R: Open to MBA students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Master of Business Administration in Integrative Management.
   Advanced strategic concepts, frameworks, tools and strategic alliances. Integration of analysis that incorporates diversification strategies, vertical integration, competitive dynamics, and global strategies.
   Effective Fall 2019

DEPARTMENT OF COMMUNITY SUSTAINABILITY

CSUS 801  Foundations of Community Sustainability II
Spring of every year. 3(3-0) P: CSUS 800 R: Open to graduate students in the Department of Community Sustainability.
   Effective Spring 2020

CSUS 805  Proposal Development for Interdisciplinary Inquiry
Spring of every year. 1(1-0) P: CSUS 800 and CSUS 802 R: Open to graduate students in the Department of Community Sustainability.
   Preparation of proposals for inquiry in practical and research settings. Application of inquiry concepts and practices in designing projects or research. Professional oral and written communications in sustainability inquiry. Processes of peer support and critique. Offered first ten weeks of semester.
   Request the use of the Pass-No Grade (P-N) system.
   Effective Spring 2020
PART II – NEW COURSES

CSUS 820  Social-Ecological Resilience
Fall of even years. 3(3-0) R: Open to graduate students.
Exploration of adaptation, resilience and transformation in social-ecological systems.
Analysis of operationalization and application of these concepts in empirical cases.
Limitations of these concepts. Challenges of systemic transformation to deal with global environmental change and uncertainty.
Effective Fall 2020

DEPARTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE AND ENGINEERING

CMSE 410  Bioinformatics and Computational Biology
Spring of every year. 3(2-2) Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics and Plant Biology. P: {(CMSE 201 and LB 144 and LB 145) or (CMSE 201 and BS 161 and BS 162) or (CMSE 201 and BS 181H and BS 182H)) and (STT 200 or STT 201 or STT 231 or STT 421 or STT 351 or ECE 280) Not open to students with credit in CSE 415.
Computational approaches in modern biology with a focus on applications in genomics, systems biology, evolution, and structural biology.
Effective Fall 2019

CMSE 411  Computational Medicine
Fall of odd years. 3(3-0) Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics. P: (CMSE 201 and LB 144 and LB 145) or (CMSE 201 and BS 161 and BS 162) or (CMSE 201 and BS 181H and BS 182H)
Computational approaches in biology with a focus on medicine.
Effective Fall 2019

SCHOOL OF CRIMINAL JUSTICE

CJ 870  Introduction to Crime Analysis
Fall of every year. 3(3-0) R: Open to master's students in the Criminal Justice Major or in the Law Enforcement Intelligence and Analysis Major.
Theoretical foundations of crime analysis. Techniques and processes used by law enforcement agencies to document and respond to patterns of crime.
Effective Fall 2019

CJ 871  Advanced Crime Analysis
Spring of every year. 3(3-0)
Advanced application of intelligence and crime analysis skills and techniques.
Effective Fall 2019

CJ 872  Open Source Information Analysis
Spring of every year. 3(3-0)
Techniques for collection and intelligence analysis of open source information. Ethical issues for collection of publicly available information and validation of sources.
Effective Fall 2019

CJ 897  Comprehensive Threat Assessment
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: CJ 837 R: Open to graduate students in the Law Enforcement Intelligence and Analysis Major.
Methods of conducting a comprehensive threat assessment in criminal justice settings. Comprehensive threat assessment for the formulation, adoption, and implementation of prevention and intervention practices.
Effective Fall 2019
DEPARTMENT OF FINANCE

FI 370  Introduction to Wealth Management
Fall of every year. 3(3-0) P: FI 311 R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
Techniques used to develop and implement comprehensive plans to achieve a person’s overall financial objectives. Budgeting, liability management, investing, tax planning, risk management, employee benefits, retirement planning, and estate planning.
Effective Fall 2019

FI 470  Advanced Wealth Management
Spring of every year. 3(3-0) P: FI 370 R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management.
Advanced estate, tax and retirement planning. Client management, planning tools and software applications. Creation of a comprehensive financial plan.
Effective Fall 2019

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES

HDFS 826  Social-Emotional Development Birth to Eight Years: Biology, Relationships, and Culture
Spring of even years. 3(3-0) RB: Prior graduate-level course on infant or early child development.
REINSTATED
Theory and research on social-emotional development birth to eight. Variability and diversity influenced by biology, family, relationships, and culture.
Effective Spring 2020

COLLEGE OF HUMAN MEDICINE

HM 615  Global Health Experience in India
Spring of every year. 3 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: HM 556 R: Open to students in the College of Human Medicine or in the College of Osteopathic Medicine.
Rural health delivery in India. Pre-travel preparation and instruction in culture followed by experiences in pediatrics, women's health, mental health, and tropical disease.
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 Spring 2019

JAMES MADISON COLLEGE

MC 411  Advanced Collaborative Study in Public Affairs
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. RB: Methods requirement completed for major R: Open to students in James Madison College. Approval of college; application required.
Faculty supervised undergraduate research in public and international affairs.
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 2019
MC 412  Public Affairs in Practice
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. RB: Methods requirement completed for major. R: Open to students in James Madison College. Approval of college.
Faculty or practitioner in residence course that enables students to learn from experienced professionals in the field of public and international affairs.
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 2019

KIN 116S  Archery II
Fall of every year. Spring of every year. 1(0-2) P: (KIN 106S) or approval of department. RB: Prior archery experience. R: A student may earn a maximum of 8 credits Students are limited to a combined total of 8 credits in KIN 101-108 and KIN 111-118 if different activities or the same activities at higher levels are involved.
Advanced level hands-on learning of archery.
Effective Fall 2019

LLT 821  Individual Differences in Second Language Acquisition
Fall of even years. 3(3-0) P: LLT 860 or concurrently R: Open to graduate students in the College of Arts and Letters or in the College of Arts and Letters or in the Second Language Studies Major or in the Teaching English to Speakers of Other Languages Major or approval of department. R: Open to graduate students in the College of Arts and Letters or in the Second Language Studies Major or in the Teaching English to Speakers of Other Languages Major or approval of department.
Individual differences in second language learning, including motivation, prior education and experiences, background, goals, working memory, and aptitude. Measurement of individual differences using quantitative and qualitative measures. Use of individual-difference measurements to explain or predict foreign and second language learning outcomes.
Effective Fall 2020

ME 456  Mechatronic System Design
Fall of every year. 3(2-3) P: (ECE 345 or concurrently) and (ME 391 or concurrently) R: Open to juniors or seniors in the Department of Mechanical Engineering.
REINSTATED Application of imbedded microcontrollers to the design of mechatronic systems. Introduction to feedback and feedforward control concepts. Design of software and hardware for systems with mechanical, electrical and fluid components plus imbedded control systems. Laboratory exercises and design projects. Application to automotive, consumer, industrial and commercial systems.
Effective Fall 2019

NEU 304  Neuroanatomy through Art and History
Summer of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Not open to freshmen. Approval of department; application required.
Structure and basic function of human nervous system, including the influence of art and cultural values on neuroanatomical knowledge throughout history.
Effective Summer 2019
NEU 306  History of Neuroscience  
Summer of every year. England, Florence, Italy 3(3-0) P: Completion of Tier I Writing Requirement  
R: Not open to freshmen. Approval of department; application required.  
Specific topics in the history of neuroscience with an emphasis on the influence of cultural values on theories and discoveries.  
Effective Summer 2019

NEU 307  Topics in History of Neuroscience  (W)  
Summer of every year. England, Florence, Italy 3(3-0) P: Completion of Tier I Writing Requirement  
R: Not open to freshmen. Approval of department; application required.  
Independent library research and group tutorial work aimed at critical analysis of the role that cultural values and historical events played in the specific topic investigated.  
Effective Summer 2019

NEU 801  Molecular, Cellular and Developmental Neuroscience I  
Fall of every year. 3(3-0) RB: B.S., B.A. or M.S. degree in the biological or psychological sciences. R: Open to graduate students in the College of Natural Science or in the Program in Neuroscience or in the Neuroscience-Environmental Toxicology Major. Approval of department.  
Genetics, molecular and cellular biology of the developing and the adult nervous system.  
Effective Fall 2019

NEU 805  Systems and Behavioral Neuroscience II  
Spring of every year. 3(3-0) RB: B.S., B.A. or M.S. in the biological or psychological sciences. R: Open to graduate students in the Neuroscience Major or in the Neuroscience-Environmental Toxicology Major. Approval of department.  
Anatomy and physiology of multicellular olfactory, visual, auditory, motor, somatosensory and autonomic nervous systems.  
Effective Fall 2019

NEU 815  Neuroinformatics and Quantitative Reasoning  
Fall of every year. 3(3-0) R: Open to graduate students in the Medical Neuroscience Graduate Certificate or in the Neuroscience Major or in the Neuroscience-Environmental Toxicology Major. Approval of department.  
Quantitative reasoning and statistical methods for querying internet databases and understanding basic neuroscience models for graduate students.  
Effective Fall 2019

SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

CMP 801  Construction, Building, and Energy Systems  
Fall of every year. 3(3-0) R: Open to graduate students in the School of Planning, Design and Construction or in the Civil Engineering Major or approval of department.  
Construction, building, and energy systems in the U.S. including steel and wood construction and mechanical, electrical, and plumbing systems.  
Effective Fall 2019

CMP 893  Elements and Methods of Research for Built Environment  
Spring of every year. 3(3-0) R: Open to graduate students in the School of Planning, Design and Construction or in the Civil Engineering Major or approval of department.  
Current areas and topics of research in built environment. Responsible conduct of research. Techniques to search for, analyze, and synthesize published literature. Critical analysis of existing research. Development of a preliminary proposal. Verbal and written communication of technical information.  
SA: CMP 892, BCM 892  
Effective Fall 2019
DEPARTMENT OF PSYCHOLOGY

PSY 238 Developmental Psychology: Lifespan
Fall of every year. 3(3-0) P: PSY 101 Not open to students with credit in HDFS 225.
Growth and decline across the human lifespan. Physical, cognitive, emotional, and social
development from conception to death.
Effective Fall 2019

DEPARTMENT OF ROMANCE AND CLASSICAL STUDIES

PRT 400 Reading Portuguese
On Demand. 3(3-0) R: Open to seniors or graduate students. Approval of department.
Intensive study of Portuguese for students in need of reading knowledge of the language
for their disciplines.
Effective Fall 2019

DEPARTMENT OF SOCIOLOGY

SOC 884 Applied Longitudinal Data Analysis
Fall of every year. 3(3-0) P: SOC 881 and SOC 882 RB: A solid knowledge of multiple regressions
is required.
REINSTATEMENT Application of statistical methods to analyze data in a longitudinal design.
Effective Fall 2019

DEPARTMENT OF THEATRE

THR 101N Acting I for Non-Theatre Majors
Fall of every year. Spring of every year. Summer of every year. 3(2-2) R: Not open to
undergraduate students in the Bachelor of Arts Theatre Major or in the Bachelor of Fine Arts
Theatre Major.
Improvational exercises, creative exercises, monologue and scene study.
Effective Fall 2019

THR 110N Theatrical Play Analysis for Non-Theatre Majors
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Not open to
undergraduate students in the Bachelor of Arts Theatre Major or in the Bachelor of Fine Arts
Theatre Major.
Play study in relation to theatrical production.
Effective Fall 2019

THR 201N Acting II for Non-Theatre Majors
Fall of every year. Spring of every year. 3(2-2) P: THR 101N RB: THR 110 or THR 110N R: Not
open to undergraduate students in the Bachelor of Fine Arts Theatre Major.
Intensive practicum including scene study, rehearsal, and performance of works by
contemporary playwrights.
Effective Fall 2019

THR 292 Sophomore Seminar
Fall of every year. Spring of every year. 2(0-4) P: (THR 101 or THR 101N) and (THR 110 or THR
110N) and THR 111 R: Open to undergraduate students in the Department of Theatre.
Introduction to theatrical disciplines, adjacent professions, and the collaborative process.
Exploration of theatre making and its ability to connect to non-theatrical contexts.
Effective Fall 2019

THR 308 The Business of Improvisation
Fall of every year. Spring of every year. 2(0-4) P: THR 208 RB: THR 101 or THR 101N
Investigation of processes of improvisation as they pertain to key soft skills necessary in
contemporary business. Development of critical skills in communication, innovation,
calculated risk-taking, and creative problem solving.
Effective Fall 2019
THR 441  Advanced Play Directing
Spring of even years. 3(0-6) P: THR 341 R: Open to juniors or seniors in the Department of Theatre.
REINSTATEMENT  Advanced directing skills, theories, and techniques applied to a variety of theatrical styles.
                    Effective Fall 2019

THR 880  Study Abroad in Theatre
Summer of odd years. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department; application required.
Comparative study and critical examination of international drama through script reading, live performance, written critique, and discussion. Overview of production style and historical period as related to script analysis. Application to selected dramatic texts. Field trips required.
                    Effective Fall 2019
PART III – COURSE CHANGES

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

ACC 493  Internship
Fall of every year. Spring of every year. Summer of every year. 1 credit. *A student may earn a maximum of 2 credits in all enrollments for this course.* P: ACC 201 and ACC 202 R: Approval of department.
Professional internship in public, industrial, or governmental accounting under faculty supervision. Request the use of the Pass-No Grade (P-N) system.
Effective Spring 2017 Effective Fall 2019

DEPARTMENT OF ANTHROPOLOGY

ANP 412  Method and Practice in Digital Heritage
Spring of every year. 3(3-0) P: ANP 201 or ANP 203 or ANP 204 or ANP 206 or approval of department P: ANP 201 or ANP 203 or ANP 204 or ANP 206 or HST 201 or HST 251 or approval of department
The application of digital methods and computational approaches to heritage questions, data, materials, collections.
Effective Fall 2018 Effective Spring 2019

ANP 423  Psychological Anthropology
Spring of even years. 3(3-0) P: ANP 201
Cross-cultural perspectives on culture and personality. Enculturation, life-cycle, person and self, emotion and cognition, mental illness.
DELETE COURSE
Effective Spring 2019

DEPARTMENT OF ART, ART HISTORY AND DESIGN

ATD 222  Structuring, Couture and Tailored Garments
Fall of every year. 4(0-8) 3(0-6) P: ATD 111 and (ATD 121 or concurrently) RB: Basic apparel construction.
Advanced methods of garment assembly and fabric handling. Creative application of assembly techniques; tailoring and couture methods.
SA: HED 222
Effective Spring 2015 Effective Fall 2019

ATD 323  Apparel Pattern Design
Fall of every year. Spring of every year. 4(0-8) 3(0-6) P: ATD 222 and (ATD 121 or concurrently) RB: (ATD 231) and basic apparel construction.
Pattern design from standard templates and body measurements. Introduction to design studio environment. Creation of original designs.
SA: HED 323
Effective Spring 2015 Effective Fall 2019

ATD 325  Design by Draping
Spring of every year. 4(0-8) 3(0-6) P: ATD 222 and ATD 231 and (ATD 323 or concurrently) RB: Basic apparel construction, textile materials, and pattern drafting.
Execution of original designs by fabric manipulation on a form. Evaluation of fit, drape, and balance.
SA: HED 323
Effective Summer 2018 Effective Fall 2019
ATD 332  Textile Design
Fall of every year. Spring of every year. 4(0-8) 3(0-6) RB: (ATD 231 and ATD 335) and Basic apparel construction, textile materials, and pattern drafting R: Not open to freshmen.
Textile design technology for surface design, knit and woven fabric development. Design organization, elements and principles.
SA: HED 232
Effective Summer 2018 Effective Fall 2019

ATD 335  Design Development and Presentation
Fall of every year. Spring of every year. 4(0-8) 3(0-6) P: ATD 121 RB: (ATD 222 and ATD 332) and Understanding of how to use a personal computer and web browsers.
Technological exploration and creation of designs, technical drawings, storyboard presentations, and electronic portfolio.
Effective Summer 2018 Effective Fall 2019

ATD 423  Design Methods and Approaches
Fall of every year. 4(0-8) 3(0-6) A student may earn a maximum of 8 credits in all enrollments for this course. A student may earn a maximum of 6 credits in all enrollments for this course. P: ATD 323 RB: Basic construction, pattern design, and draping
Research and execution of original apparel design across a variety of platforms and experimental approaches.
Effective Fall 2016 Effective Fall 2019

ATD 424  Specialized Design
Spring of every year. 4(0-8) 3(0-6) P: ATD 323 RB: Basic construction, pattern design, and draping. Implications of innovative technologies for the future of design, art, and manufacturing. Utilization of technologies to create innovative and highly complex designs. Practical experiences within technologies. Workflow scenarios including concept, drawing, modeling, production, and presentation.
SA: HED 424
Effective Summer 2018 Effective Fall 2019

ATD 427  Knitwear Design
Fall of every year. 4(0-8) 3(0-6) P: ATD 323 RB: Basic construction, pattern design, and draping. Fundamentals of knitwear design. Patternmaking and assembly techniques for cut-and-sew and full-fashioned knitwear.
Effective Spring 2015 Effective Fall 2019

ATD 428  Design Studio
Spring of every year. 4(0-8) 3(0-6) A student may earn a maximum of 8 credits in all enrollments for this course. A student may earn a maximum of 6 credits in all enrollments for this course. P: ATD 323 RB: Apparel construction, pattern design, and draping
Execution of original apparel designs for a collection and exhibition.
Effective Spring 2015 Effective Fall 2019

ATD 493  Internship in Apparel and Textiles
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: ATD 323 and ATD 332 R: Not open to freshmen or sophomores. Approval of department. R: Approval of department. Pre-professional experience in a selected business, industry, or community organization. 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.
SA: HED 493B
Effective Spring 2015 Effective Fall 2019
GD 295  Design Thinking for Entrepreneurs  
Fall of every year. Spring of every year. Summer of every year. 3(0-6)  
R: Open to students in the Entrepreneurship and Innovation Minor.  
Skills in ideation and innovation, discovering human needs and matching them with  
feasible solutions developed in accordance with the principles and practices of  
entrepreneurship; creating value and working towards social good by developing solutions  
to complex issues affecting multiple systems or populations.  
Effective Summer 2018 Effective Fall 2019

GD 491  Selected Topics - Graphic Design  
Fall of every year. Spring of every year. 3(0-6)  
A student may earn a maximum of 6 credits in all enrollments for this course. A student may earn a maximum of 9 credits in all enrollments for this course. P: GD 360 or GD 365  
Issues of technique, style, and content in graphic design. Experimental and relevant topics  
of interest in graphic design.  
Effective Summer 2018 Effective Fall 2019

GD 493  Design Internship  
Graphic Design Internship  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. 1 to 6 credits. A  
student may earn a maximum of 6 credits in all enrollments for this course. P: GD 460 or GD 462 or  
GD 465 or GD 466 or GD 467 or GD 468  
Field experience in a working design environment under supervision of a graphic design  
professional.  
Request the use of the Pass-No Grade (P-N) system.  
Effective Summer 2018 Effective Fall 2019

ELI BROAD COLLEGE OF BUSINESS

PIM 855  Strategic Management  
Strategic Management I  
Fall of every year. 1 to 3 credits. R: Open to MBA students in the Eli Broad College of Business and  
The Eli Broad Graduate School of Management or in the Master of Business Administration in  
Integrative Management.  
Managing organizations in relation to their external environment to achieve competitive  
advantage. Integration of two primary fields of analysis: the industry and organizational  
activities. Coverage of frameworks and tools for formulating successful business,  
corporate, and global strategies.  
Effective Fall 2016 Effective Fall 2019

DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE

CHE 210  Modeling and Analysis of Transport Phenomena  
Fall of every year. Spring of every year. 3(3-0) P: ((MTH 235 or concurrently) or (MTH 340 or  
currently)) or (MTH 347H or concurrently) or CHE 201 and CHE 201  
P: ((MTH 235 or  
currently) or (MTH 340 or concurrently) or (MTH 347H or concurrently)) and CHE 201  
Steady and unsteady state material and energy balances. Fluxes and rate processes.  
Shell balances. Balance equations for mass, heat, and momentum transport. Analogies  
among mass, heat, and momentum transport. Analytical and numerical solutions.  
Application of computational methods to problem solutions.  
Effective Fall 2017 Effective Fall 2019
DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS

CSD 883  Clinical Practicum in Speech-Language Pathology
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 15 credits in all enrollments for this course. P: CSD 880  R: Open to graduate students in the Department of Communicative Sciences and Disorders.
Supervised clinical experience in the management of clients with speech-language disorders.
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.
SA: ASC 894A
Effective Spring 2013  Effective Spring 2020

DEPARTMENT OF COMMUNITY SUSTAINABILITY

CSUS 301  Community Engagement for Sustainability
Community Engagement for Sustainability (W)
Fall of every year. Spring of every year. 3(3-0) P: (CSUS 200) and completion of Tier I writing requirement R: Not open to freshmen.
Application of principles of change theory, citizenship, sustainability, and community engagement at multiple scales. Public and participatory decision making in diverse contexts. Techniques and skills for community engagement. Examination of personal identities as citizens. Leadership and communication challenges in active practice of engagement.
Effective Summer 2015  Effective Fall 2019

CSUS 330  Organizational Management for Community Sustainability (W)
Non-Profit Organizational Management for Community Sustainability
Fall of every year. Spring of every year. 3(3-0) P: (CSUS 200 or CSUS 273 or CSUS 276) and completion of Tier I writing requirement R: Open to juniors or seniors. R: Open to juniors or seniors or graduate students.
Sustainable management and operation of public and nonprofit organizations. Legal foundations, policy, management responsibilities, ethical decision making and management functions. Sustainable management and operation of non-profit organizations. Legal foundations, policy, funding, management responsibilities, ethical decision-making and management functions.
SA: PRR 370  SA: CSUS 330, PRR 370
Effective Summer 2017  Effective Fall 2019

CSUS 430  Grant Writing and Fund Development (W)
Grant Writing and Fund Development
Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to juniors or seniors or graduate students.
Theoretical and practical background for proposal writing. Program and strategic planning. Fund-raising and organizational advancement.
SA: ESA 413, RD 313
Effective Fall 2014  Effective Fall 2019

CSUS 800  Foundations of Community Sustainability
Foundations of Community Sustainability I
Fall of every year. 3(3-0) P: Open to graduate students in the Department of Community Sustainability or approval of department. R: Open to graduate students in the Department of Community Sustainability. C: CSUS 802 concurrently.
Concepts, issues, and approaches central to integrated research, service and learning careers in community sustainability including sustainable tourism and protected area management. Theoretical and conceptual foundations of community sustainability. Sustainability practice. Introduction to ethics and community engagement for sustainability. Field trips required.
SA: ACR 800
Effective Fall 2014  Effective Fall 2019
CSUS 802  
Survey of Research Methods
Introduction to Interdisciplinary Inquiry
Fall of every year. 3(3-0) P: Open to graduate students in the Department of Community Sustainability or approval of department. R: Open to graduate students in the Department of Community Sustainability. C: CSUS 800 concurrently.
Methodological approaches and research techniques applied in multidisciplinary research in community sustainability. Concepts and skills needed to interpret and evaluate published research. Interdisciplinary, multidisciplinary and transdisciplinary research design. Community engagement as related to research and inquiry. Practical skills for developing inquiry projects.
SA: ACR 802
Effective Fall 2014 Effective Fall 2019

DEPARTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE AND ENGINEERING

CMSE 201  
Introduction to Computational Modeling
Introduction to Computational Modeling and Data Analysis
Fall of every year. Spring of every year. 4(4-0) P: MTH 124 or MTH 132 or MTH 152H or LB 118 Computational modeling using a wide variety of applications examples. Algorithmic thinking, dataset manipulation, model building, data visualization, and numerical methods all implemented as programs.
SA: NSC 204
Effective Fall 2016 Effective Fall 2019

CMSE 202  
Computational Modeling Tools and Techniques
Fall of every year. Spring of every year. 4(4-0) P: CMSE 201 Continuation of introduction to computational modeling focusing on standard methods and tools used for modeling and data analysis. Topics may include statistical analysis, symbolic math, linear algebra, simulation techniques, data mining.
SA: NSC 205
Effective Fall 2018 Effective Fall 2019

CMSE 401  
Methods for Parallel Computing
Spring of odd years. 4(4-0) P: (CMSE 202 and CSE 232) and (MTH 235 or MTH 340 or MTH 347H) Not open to students with credit in CSE 415.
Effective Fall 2017 Effective Fall 2019

CMSE 402  
Visualization of Scientific Datasets
Data Visualization Principles and Techniques
Spring of even years. 3(3-0) P: (CMSE 202) and (MTH 234 or MTH 254H or LB 220) Core principles, methods, and techniques of effective data visualization. Visualization toolkits. Vector and scalar data. Multivariate visualization. Relationship between data analysis and visualization.
Effective Fall 2017 Effective Fall 2019

SCHOOL OF CRIMINAL JUSTICE

CJ 422  
Comparative and Historical Criminal Justice
Fall of odd years. Spring of every year. 3(3-0) P: CJ 110 R: Open to juniors or seniors in the Criminal Justice Major. Comparative study of criminal justice systems. Theories, types, and effects of intervention. Effective Spring 2014 Effective Fall 2019

CJ 801  
Crime Causation, Prevention, and Control
Fall of every year. Spring of every year. 3(3-0) P: Open only to graduate students in the School of Criminal Justice. R: Open to graduate students in the School of Criminal Justice. Theories of crime causation. Translation of theory to policy. Effective Spring 2004 Effective Fall 2019
PART III – COURSE CHANGES

CJ 803  Foundations in Homeland Security  
Fall of every year. Spring of every year. 3(3-0) R: Open to graduate students in the Criminal Justice major or in the Law Enforcement Intelligence and Analysis major. Homeland security's definition of terrorism and terrorist groups. Fundamental principles of emergency management and homeland security. Historical perspectives and modern threats. Public health and environmental protections. Private sector role and impacts. Security versus civil liberties. Science technology and research issues. Effective Spring 2014 Effective Fall 2019

CJ 811  Design and Analysis in Criminal Justice Research  
Fall of every year. Spring of every year. 3(3-0) R: Open only graduate students in the School of Criminal Justice. R: Open to graduate students in the School of Criminal Justice. Scientific methods in criminal justice research. Design, data collection and analysis, interpretation of findings, and ethical concerns. Computer use in data analysis. Effective Summer 2006 Effective Fall 2019

CJ 812  Criminal Justice Management Seminar  
Fall of every year. Spring of every year. 3(3-0) R: Open to graduate students in the School of Criminal Justice or approval of school. Organization theory and behavior for the criminal justice agency. Organization and policy planning, budgeting, forecasting, human resource management, and project implementation. Effective Fall 2013 Effective Fall 2019

CJ 817  Law and Forensic Science  
Fall of even years. Spring of every year. 2(2-0) R: Open only to students in the Forensic Science major. R: Open to students in the Forensic Science Major. Legal aspects of forensic science. Adjudicative process, admissibility of scientific evidence, laboratory reports, hearsay, relevant case materials, and expert testimony. 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 2016 Effective Fall 2019

CJ 819  Forensic Analysis of Drugs and Alcohol  
Fall of every year. Fall of odd years. 3(1-5) R: Open only to graduate students in the Forensic Science major. R: Open to graduate students in the Forensic Science Major. Techniques and processes in analysis of physical evidence including spectroscopy, chromatography, and microscopy. Emphasis on controlled substances. Effective Summer 2006 Effective Fall 2019

CJ 824  Forensic Serology  
Fall of every year. Fall of even years. 3(2-4) R: Open only to graduate students in the Forensic Science major. R: Open to graduate students in the Forensic Science Major. Identification of body fluids of forensic interest, including blood, semen, and saliva. Sources of false positive and negative results. Effective Summer 2006 Effective Fall 2019

CJ 837  Counterterrorism and Intelligence  
The Intelligence Process and Counterterrorism  
Fall of every year. Spring of every year. 3(3-0) R: Open to graduate students in the School of Criminal Justice. Meanings and concept of terrorism. Nature of both domestic and international terrorist threats. Integration of intelligence and terrorism to understand counterterrorism concepts. Law enforcement intelligence process for domestic and international terrorist threats. Current issues and trends in terrorism, counterterrorism and the role of law enforcement intelligence. Effective Fall 2003 Effective Fall 2019
PART III – COURSE CHANGES

CJ 856  Advanced Topics in Policing
Fall of every year. Spring of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to graduate students in the School of Criminal Justice or approval of school.
   Special topics on policing such as crime analysis, problem solving, police recruitment, retention and development, police behavior and ethics.
   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 2014 Effective Fall 2019

CJ 887  Quantitative Methods in Criminal Justice Research
Fall of every year. Spring of every year. 3(3-0) P: CJ 811 R: Open only to graduate students in the School of Criminal Justice. R: Open to graduate students in the Criminal Justice Major or in the Judicial Administration Major.
   Descriptive and inferential statistics and computer use in criminal justice research.
   Effective Summer 2006 Effective Fall 2019

CJ 896  Policy Analysis under Conditions of Change
Fall of every year. Spring of every year. 3(3-0) P: CJ 811 and (CJ 887 or concurrently) RB: At least 75% of MS course work complete R: Open only to graduate students in the School of Criminal Justice. R: Open to graduate students in the School of Criminal Justice.
   Methods of policy analysis in criminal justice settings. Policy analysis for the formulation, adoption, and implementation of changes.
   Effective Summer 2006 Effective Fall 2019

CJ 901  Seminar in Contemporary Criminal Justice Theory
Fall of every year. Spring of every year. 3(3-0) P: CJ 801 R: Open only to doctoral students in the School of Criminal Justice. R: Open to doctoral students in the Criminal Justice Major.
   Theoretical perspectives and issues in criminal justice and criminology
   Effective Summer 2006 Effective Fall 2019

CJ 905  Law and Society
Fall of every year. Fall of even years. 3(3-0) R: Open only to doctoral students in the School of Criminal Justice. R: Open to doctoral students in the Criminal Justice Major.
   Theoretical perspectives on law. Impact of law on society and the criminal justice system.
   Effective Fall 2016 Effective Fall 2019

DEPARTMENT OF FORESTRY

FW 419
FOR 419 Applications of Geographic Information Systems to Natural Resources Management
Spring of every year. 4(2-4) Interdepartmental with Biosystems Engineering and Forestry and Geography. Interdepartmental with Biosystems Engineering and Fisheries and Wildlife and Geography RB: GEO 221
   Application of geographic information systems, remote sensing, and global positioning systems to integrated planning and management for fish, wildlife, and related resources.
   Effective Fall 2014 Effective Summer 2019

SCHOOL OF HOSPITALITY BUSINESS

HB 411  Hospitality Beverages
Spring of every year. 3(3-0) P: HB 409 R: Open to juniors or seniors in the School of Hospitality Business. Approval of school; application required.
   Evaluation and selection of hospitality beverages. Geographical origins of beverages, beverage production, quality assessment, matching beverages with food, health and social considerations.
   Effective Spring 2013 Effective Summer 2019
HB 447  Hospitality Business Law  
Fall of every year. Spring of every year. 3(3-0) R: Open to juniors or seniors in the School of Hospitality Business. Not open to students with credit in GBL 323 or GBL 385.  
Legal aspects of hospitality industry, including structure of the U.S. legal system, contracts, torts, discrimination, property and product liability. Administrative law and government regulation of the industry.  
SA: GBL 447  
Effective Spring 2013 Effective Summer 2019  

DEPARTMENT OF KINESIOLOGY  

KIN 310  Physiological Bases of Physical Activity  
Fall of every year. Spring of every year. 3(3-0) P: {(KIN 173 and CEM 141) and (KIN 216 or ANTR 350) and (PSL 250) or (PSL 431 and PSL 432)} P: {(KIN 173 and CEM 141) and (KIN 216 or ANTR 350) and (PSL 250 or PSL 310)} or (PSL 431 and PSL 432) R: Open to students in the Athletic Training Major or in the Kinesiology major.  
Acute and chronic effects of exercise on various body systems. Principles of training, exercise prescription, and the role of physical activity in health and disease.  
SA: PES 310  
Effective Spring 2013 Effective Summer 2019  

MSU COLLEGE OF LAW  

LAW 501F  Sales and Leases  
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits, 0 to 6 credits. P: LAW 500D and LAW 500E P: LAW 530B R: Open to Law students or master's of law students or law lifelong students or law non degree students. R: Open to Law students or law advanced students or law lifelong students or law non-degree students.  
SA: LAW 501C  
Effective Summer 2009 Effective Summer 2019  

LAW 501G  Payment Systems  
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits, 0 to 6 credits. P: LAW 500D and LAW 500E P: LAW 530B R: Open to Law students or master's of law students or law lifelong students or law non degree students. R: Open to Law students or law advanced students or law lifelong students or law non-degree students.  
Negotiable instruments, bank deposits and collections, funds transfer, and letters of credit under the Uniform Commercial Code.  
SA: LAW 501C  
Effective Summer 2009 Effective Summer 2019  

LAW 591A  Client Counseling and Interviewing  
Fall of every year. Spring of every year. 2 to 4 credits, 0 to 6 credits. P: LAW 500A and LAW 500P P: LAW 530A and LAW 500P R: Open to students in the MSU College of Law. R: Open to Law students or law advanced students or law lifelong students or law non-degree students in the MSU College of Law. Not open to students with credit in LAW 623B or LAW 623C or LAW 623D or LAW 623E or LAW 623F or LAW 623A.  
Problem-solving approaches to fundamental counseling skills.  
SA: DCL 450  
Effective Summer 2009 Effective Summer 2019
LAW 628  Law Review  
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 500 J and LAW 500 K. P: (LAW 530 D or LAW 530 E or LAW 530 N or LAW 530 Q) and LAW 530 J. R: Open to students in the MSU College of Law. R: Open to Law students or law advanced students or law lifelong students or law non-degree students in the MSU College of Law. 
This course is by invitation only. Completion of RWA I & II, and a satisfactory GPA is required to enter the writing competition. This course is by invitation only. Completion of RWA and Advocacy, and a satisfactory GPA is required to enter the writing competition. 
Request the use of the Pass-Fail Grade (P-F) 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. 
SA: DCL 790 
Effective Spring 2006 Effective Summer 2019  

DEPARTMENT OF MANAGEMENT  

BUS 170  ESHP 170  Business Model Development: The Hive Startup  
Startup: Business Model Development  
Fall of every year. Spring of every year. Summer of every year. 1 credits. 1(3-0) 
Moving new venture business ideas to implementation in an idea and collection laboratory. Moving new concepts from idea to prototype in support of developing market value. 
Effective Fall 2014 Effective Fall 2019  

BUS 190  ESHP 190  The Art of Starting  
Spring of every year. 3(3-0) RB: Interest in entrepreneurship. 
Aspects of the entrepreneurial experience. The entrepreneurial mindset and the venture creation process. Foundation for getting a venture started, and understanding of what it takes to be an entrepreneur. 
Effective Spring 2016 Effective Fall 2019  

BUS 230  ESHP 230  The Entrepreneurial Mindset  
Summer of every year. 3(2-0) P: BUS 190  
SA: MKT 230 
Effective Spring 2016 Effective Fall 2019  

BUS 231  ESHP 231  Venture Launch  
Fall of every year. Summer of every year. 3(2-0) P: BUS 230 P: ESHP 230 or approval of department. 
Creating a minimum viable product. Market testing. Building a basic business model. Developing and executing a launch plan. 
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: MKT 231 
Effective Spring 2016 Effective Fall 2019
MKT 380  ESHP 380
Entrepreneurship: Planning, Modeling, and Adaptive Execution
Fall of every year. Spring of every year. 3(3-0) P: BUS 190 P: ESHP 190 R: Open to students in the Entrepreneurship & Innovation Minor. R: Open to students in the Entrepreneurship and Innovation Minor.
Strategies for successful entrepreneurship, customer development process, risk mitigation procedures, new product development process, adaptive execution, engaging the marketplace.
Effective Fall 2015 Effective Fall 2019

MKT 480  ESHP 480
Entrepreneurship Capstone Experience
Fall of every year. Spring of every year. 3(3-0) P: BUS 190 or MGT 352 P: ESHP 190 or MGT 352 or CAS 114 or approval of department R: Open to students in the Entrepreneurship and Innovation Minor.
Entrepreneurship and business development projects. Defining marketing intangibles. Defining scope of work. Engagement management. Preparing deliverables for entrepreneurial firms. Working with entrepreneurs to solve real problems ranging from initial visioning and planning to grow to size.
SA: MSC 480 SA: MSC 480, MKT 480
Effective Fall 2015 Effective Fall 2019

SCM 474  MGT 474
Negotiations
Fall of every year. Spring of every year. 2(2-0) Interdepartmental with Management. Interdepartmental with Supply Chain Management R: Open to juniors or seniors in the Supply Chain Management Major or approval of department.
Strategic negotiation, negotiation preparation, buyer-supplier relationship assessment, international negotiations, and negotiation simulation.
SA: MSC 474 SA: SCM 474
Effective Fall 2013 Effective Summer 2019

DEPARTMENT OF MARKETING

MGT 250  MKT 250
Business Communication: Oral and Written Skills
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to undergraduate students in the Business - Admitted major.
Communication skills including use of digital media, delivery mechanics, persuasive speaking, and preparation of executive briefs, memos, email messages.
SA: BUS 250 SA: MGT 250
Effective Fall 2013 Effective Summer 2019

MKT 302
Consumer and Organizational Buyer Behavior
Consumer Behavior
Fall of every year. Spring of every year. 3(3-0) P: (MKT 300 or MKT 327) and (MKT 317 or concurrently) P: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Food Industry Management major or in the Sales Communication Specialization. R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Food Industry Management Major.
Application of consumer behavior principles to customer satisfaction, market planning, and marketing mix decisions. Ethical, diversity, and international issues.
SA: MSC 302
Effective Fall 2015 Effective Fall 2019
MKT 317  **Quantitative Business Research Methods**

**Market Analytics**

Fall of every year. Spring of every year. Summer of every year. 3(3-0) Interdepartmental with Statistics and Probability. P: STT 200 or STT 201 or STT 315 P: STT 200 or STT 201 or STT 315 or STT 351 R: Open to sophomores or juniors or seniors in the Accounting major or in the Business - Admitted major or in the Finance Major or in the Human Resource Management Major or in the Management Major or in the Supply Chain Management Major or in the Marketing Major or in the Applied Engineering Sciences Major.

- Application of statistical techniques, including forecasting, to business decision making.
- Includes applications of linear regression and correlation, analysis of variance, selected non-parametric tests, time series, and index numbers. Descriptive and predictive market analytics. Applications of analytics to real-world business decisions. Assessment and manipulation of large datasets. Application of statistical techniques to convert data into useable information. Communication of findings.

SA: MSC 317  Effective Summer 2018 Effective Fall 2019

MKT 355  **Entrepreneurship: Strategic Marketing Planning and Launch**

**Entrepreneurial Marketing**

Fall of every year. Spring of every year. 3(3-0) P: MKT 300 or MKT 327 or BUS 190 P: MKT 300 or MKT 327 or ESHP 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.

- 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 Effective Fall 2019

MKT 415  **International Marketing Management**

**International Marketing**

Fall of every year. Spring of every year. 3(3-0) P: (MKT 300 or MKT 327) and (MKT 310 or EC 340) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

- Marketing decisions, strategies, and operations of the firm involved in international business. Researching global market opportunities and formulating market entry strategies. Developing and implementing the international marketing program.

SA: MSC 415  Effective Fall 2015 Effective Fall 2019

MKT 430  **Key Account and Customer Relationship Management**

Fall of every year. Spring of every year. 3(3-0) P: MKT 313 and COM 360 or approval of department P: MKT 313 R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

- R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and open to juniors or seniors in the Sales Leadership Minor.

- Development and ongoing management of mutually profitable relationships with targeted customers. Account segmentation and penetration strategies. Principles and mechanics of customer relationship management, including the use of related technology. Consultative selling approaches to major accounts and complex enterprises, including business analysis and quantifiable substantiation of value proposition.

SA: MSC 430  Effective Fall 2015 Effective Spring 2019

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**DEPARTMENT OF MECHANICAL ENGINEERING**

ME 222  **Mechanics of Deformable Solids**

Fall of every year. Spring of every year. Summer of every year. 3(3-0) 3(2-2) P: MTH 234 and CE 221


SA: MSM 211  Effective Fall 2014 Effective Fall 2019
ME 370  Mechanical Design and Manufacturing I  
Fall of every year. Spring of every year. 3(3-0)  
P: (ME 222 and (ME 300 or concurrently) and ME 391) and completion of Tier I writing requirement  
P: (ME 222 and (ME 300 or concurrently) and (ME 391 or concurrently)) and completion of Tier I writing requirement  
R: Open to juniors or seniors in the Mechanical Engineering Major.  
Engineering design of machine elements and mechanical systems. Computer-based analysis in support of design. Design for static and fatigue strength, deflection, and reliability.  
SA: ME 471  
**Effective Fall 2018 Effective Fall 2019**

**DEPARTMENT OF MEDIA AND INFORMATION**

MI 220  Methods for Understanding Users  
Fall of every year. Spring of every year. 3(3-0)  
Basics of user research methods, such as interviews, surveys, content analysis, and focus groups. Methods to generate design ideas, solve design problems, and communicate the results.  
**Effective Fall 2017 Effective Spring 2020**

MI 250  Introduction to Applied Programming  
Fall of every year. Spring of every year. 3(2-2)  
Creation of software that responds to user input. Introduces variables, control structures, problem decomposition, finding and using existing libraries/APIs, producing user visible output, testing, creating documentation, and using version control.  
**Effective Fall 2016 Effective Spring 2020**

**Advanced Game Development**

**MI 333**

**MI 431**  Advanced Game Development  
Fall of every year. Spring of every year. 3(2-2)  
P: MI 231 or CSE 231  
P: MI 231 or CSE 232  
R: Open to students in the Department of Media and Information or in the Department of Computer Science and Engineering or in the Game Design and Development Minor.  
Advanced concepts in planning, implementing, and troubleshooting applications and interfaces for games and interactive media.  
SA: MI 333  
**Effective Fall 2017 Effective Fall 2019**

**COLLEGE OF NATURAL SCIENCE**

NSC 495  Capstone in Human Biology (W)  
Fall of every year. Spring of every year. 2(2-0) 3(3-0)  
P: Completion of Tier I writing requirement. R: Open to seniors in the Human Biology Major.  
Integration of human biology disciplines with a focus on health and disease.  
**Effective Fall 2014 Effective Fall 2019**

NEU 301  Introduction to Neuroscience I  
Fall of every year. 3(3-0)  
P: (BS 161 or BS 181H or LB 145) and (BS 162 or BS 182H or LB 144)  
RB: PSY 101  
R: Open to undergraduate students in the Lyman Briggs College or in the College of Natural Science or in the Program in Neuroscience.  
Survey of the field of neuroscience, including molecular, cellular, and autonomic, sensory and motor systems.  
**Effective Spring 2017 Effective Fall 2019**
NEU 311L  Neuroscience Laboratory  (W)
Fall of every year. Spring of every year. 2(1-3)  P: ((NEU 301 or concurrently) and completion of Tier I writing requirement) and (STT 201 or STT 231 or STT 421) and (BS 171 or BS 191H or LB 145)  RB: PSY 101  R: Open to undergraduate students in the Program in Neuroscience or in the Lyman Briggs Neuroscience Coordinate Major.
Overview of neuroscience research methodology, including experimental design, data analysis, and presentation of results.  
Effective Fall 2014  Effective Fall 2019

NEU 420  Neurobiology of Disease
Spring of every year. 3(3-0)  P: NEU 301 and NEU 302  R: Open to undergraduate students in the Lyman Briggs College or in the College of Natural Science or in the Program in Neuroscience. 
R: Open to undergraduate students in the Program in Neuroscience or in the Lyman Briggs Neuroscience Coordinate Major.
Genetic, molecular, cellular, systems, and behavioral abnormalities that contribute to the manifestation of neurologic and psychiatric diseases and disorders that affect the nervous system.  
Effective Spring 2018  Effective Fall 2019

NEU 492  Special Topics in Neuroscience
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: PSY 101  R: Open to sophomores or juniors or seniors. Approval of department. 
R: Open to sophomores or juniors or seniors in the Neuroscience Major or in the Lyman Briggs Neuroscience Coordinate Major. Approval of department. A student may earn a maximum of 15 credits in NEU 490 and NEU 492. 
Current topics proposed by faculty that supplement regular course offerings.  
Effective Fall 2014  Effective Fall 2019

COLLEGE OF OSTEOPATHIC MEDICINE

OST 580  Respiratory System
Spring of every year. 6(4-4)  R: Open to graduate-professional students in the College of Osteopathic Medicine.  
Systems biology approach to the entire respiratory system, including the ear, nose, throat, sinuses, and related structures of the thorax. Includes certification in Basic and Advanced Cardiac Life Support. Systems biology approach to the entire respiratory system. Request the use of the Pass-No Grade (P-N) system.  
Effective Spring 2018  Effective Spring 2019

SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

CMP 810  Construction Systems
Fall of every year. 1(0-2)  R: Open to graduate students in the Construction Management Major or in the Interior Design Major or in the Civil Engineering Major.  
Construction materials and methods in the U.S. Steel and wood construction.  SA: BCM 810  
DELETE COURSE  Effective Spring 2019

CMP 892  Construction Management Research Seminar
Fall of every year. 2(2-0)  R: Open only to graduate students in the College of Agriculture and Natural Resources or College of Engineering or College of Human Ecology.  
Current areas and topics of research in construction management. Resources of research results, analysis of existing research, and development of preliminary proposal.  SA: BCM 892  
DELETE COURSE  Effective Spring 2019
DEPARTMENT OF PSYCHOLOGY

PSY 455 Advanced Topics in Organizational Psychology (W)
Fall of every year. Spring of every year. 3(3-0) P: (PSY 255 and PSY 295) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Psychology or in the Interdisciplinary Studies in Social Science major. R: Open to juniors or seniors in the Department of Psychology or in the Bachelor of Arts in Interdisciplinary Studies in Social Science Major or in the Bachelor of Science in Interdisciplinary Studies in Social Science Major.
Applied research related to human resource issues in work organizations. Selection, training, motivation, leadership, and organizational change.
Effective Fall 2014 Effective Fall 2019

COLLEGE OF SOCIAL SCIENCE

ESP 800 Principles of Environmental Science and Policy
Fall of every year. Spring of every year. 3(3-0) Overview of scholarship and research in environmental science and policy. Scholarship and research in environmental science and policy.
Effective Spring 2012 Effective Spring 2019

DEPARTMENT OF SOCIOLOGY

SOC 351 Gendered Violence and Intersections of Power
Summer of every year. 3(3-0) Interdepartmental with Women's Studies.
Gendered violence from an intersectional perspective. Ways intersecting social statuses such as race, class, and sexuality shape gendered experiences.
Effective Summer 2017 Effective Summer 2019

SOC 368 Science, Technology and Society
Science, Technology, and Society
Fall of every year. Spring of every year. 4(4-0) Interdepartmental with Lyman Briggs. RB: (LB 133) or some familiarity with basic concepts and methods in sociology. R: Not open to freshmen or sophomores.
Role of science and technology in social change. Values and ethics in contemporary perspectives, controversies, and cases. Science and technology as forms of knowledge.
Effective Summer 2017 Effective Fall 2019

DEPARTMENT OF SUPPLY CHAIN MANAGEMENT

SCM 304 Survey of Supply Chain Management
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Not open to students in the Business-Admitted major or in the Accounting major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major. R: Open to juniors or seniors and not open to students in the Accounting major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Business - Admitted major or in the Business-Preference major or in the Supply Chain Management Major. Not open to students with credit in SCM 303.
Objectives, processes, and functions of supply chain management activities including procurement, manufacturing, and logistics. The role of supply chain processes in creating competitive advantage with respect to quality, flexibility, lead-time, and cost.
Effective Summer 2017 Effective Summer 2019
PART III – COURSE CHANGES

SCM 470  Supply Chain Application and Policy (W)
Fall of every year. Spring of every year. Summer of every year. 2(2-0) 3(3-0) P: (SCM 371 and SCM 372 and SCM 373) and completion of Tier I writing requirement R: Open to seniors in the Supply Chain Management Major.
Analysis and problem solving of supply chain management cases. Purchasing, manufacturing, logistics, and transportation as an integrated supply chain. Analysis and problem solving of supply chain management cases, specifically purchasing, operations, and logistics problems.
SA: MSC 470
Effective Spring 2013 Effective Fall 2019

SCM 882  Supply Chain Management Project Management Research Paper
Fall of every year. Spring of every year. On Demand. 3 credits. P: SCM 870 RB: Completion of 21 credits of Master of Science in Supply Chain Management program. R: Open to master's students in the Supply Chain Management Major. R: Open to master's students in the Department of Supply Chain Management or in the Supply Chain Management Major.
Practical application of course material to a problem or situation in the student's organization. Development of project management skills and application with other course material to a situation in the student's organization. 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. 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: MSC 882
Effective Fall 2019

DEPARTMENT OF THEATRE

THR 101  Acting I
Fall of every year. Spring of every year. 2(2-2) 3(0-6) R: Open to undergraduate students in the Bachelor of Arts Theatre Major or in the Bachelor of Fine Arts Theatre Major.
Improvisational exercises, creative exercises, monologue and scene study.
Effective Fall 2015 Effective Fall 2019

THR 110  Theatrical Play Analysis
Fall of every year. Spring of every year. 2(3-0) 3(2-2) R: Open to undergraduate students in the Bachelor of Arts Theatre Major or in the Bachelor of Fine Arts Theatre Major.
Play study in relation to theatrical production.
Effective Fall 2015 Effective Fall 2019

THR 201  Acting II
Acting II
Fall of every year. Spring of every year. 2(2-2) 3(0-6) P: THR 101 RB: THR 110 R: Open to undergraduate students in the Bachelor of Fine Arts Theatre Major.
Intensive practicum including scene study, rehearsal, and performance of works by twentieth century playwrights. Intensive practicum including scene study, rehearsal, and performance of works by contemporary playwrights.
Effective Fall 2015 Effective Fall 2019

THR 331  Studies in Contemporary Theatre
Contemporary Theatre in Historical Context
Spring of every year. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. P: THR 110 RB: Completion of Tier I Writing Requirement R: Open to juniors or seniors in the Department of Theatre.
Interdisciplinary methods for analysis of contemporary drama, theatre, and performance. Emphasis on relationship of artistic forms to social, political, and cultural contexts.
Effective Fall 2014 Effective Fall 2019
THR 361  Topics in Lighting Technology  
Fall of even years. Spring of even years. 3(0-6) 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P: THR 211 and THR 211L  P: THR 211  
Topics supplementing regular design and technology course offerings on a group study basis.  
Effective Fall 2015 Effective Fall 2019

THR 362  Topics in Costume Technology  
Fall of odd years. Spring of odd years. 3(0-6) 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P: THR 212 and THR 212L  P: THR 212  
Topics supplementing regular design and technology course offerings on a group study basis.  
Effective Fall 2015 Effective Fall 2019

THR 364  Topics in Scenery Technology  
Fall of odd years. Spring of odd years. 3(0-6) 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P: THR 214 and THR 214L  P: THR 214  
Topics supplementing regular design and technology course offerings on a group study basis.  
Effective Fall 2015 Effective Fall 2019

THR 369  Topics in Digital Technology  
Fall of even years. Spring of even years. 3(0-6) 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P: THR 219 and THR 219L  P: THR 216 or THR 219  
Topics supplementing regular design and technology course offerings on a group study basis.  
Effective Fall 2015 Effective Fall 2019

THR 492  Senior Seminar   (W)  
Fall of every year. 3(2-2) 2(0-4) P: Completion of Tier I Writing Requirement R: Open to seniors in the Department of Theatre  
Preparation for a career as theatre professional, encompassing topics in contemporary theatre, dance, performance theory and practice.  
Effective Fall 2017 Effective Fall 2019

THR 801  Practicum: Acting  
Fall of every year. Spring of every year. 3(2-2) 3(0-6) A student may earn a maximum of 18 credits in all enrollments for this course. R: Open to graduate students in the Department of Theatre  
Methodologies and principles of varying acting theorists. Application to selected dramatic texts.  
Effective Fall 2009 Effective Fall 2019

THR 813  Period Resources and Research  
Fall of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the Department of Theatre  
Methodology used in researching historical customs and artifacts that actors, directors and designers adapt for use in acting, directing, scenery, costumes, lighting, media, sound and stage technology. Methodology used in researching historical customs and artifacts that theatre practitioners adapt for use in production styles. Exploration and application of historical styles in relation to selected dramatic texts.  
Effective Fall 2015 Effective Fall 2019