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

**PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES**

**COLLEGE OF AGRICULTURE AND NATURAL RESOURCES**

1. Change the requirements for the Agricultural Technology Certificate in Agricultural Industries in The Institute of Agricultural Technology.
   
   a. Under the heading Requirements for Agricultural Industries make the following changes:

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABM 100</td>
<td>Decision-making in the Agri-Food System</td>
<td>3</td>
</tr>
<tr>
<td>ABM 130</td>
<td>Farm Management I</td>
<td>3</td>
</tr>
<tr>
<td>CSS 105</td>
<td>Agricultural Industries Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

   Add the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRE 100</td>
<td>Decision-making in the Agri-Food System</td>
<td>3</td>
</tr>
<tr>
<td>AFRE 130</td>
<td>Farm Management I</td>
<td>3</td>
</tr>
<tr>
<td>CSS 192</td>
<td>Professional Development Seminar I</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABM 222</td>
<td>Agribusiness and Food Industry Sales</td>
<td>3</td>
</tr>
<tr>
<td>ABM 225</td>
<td>Commodity Marketing I</td>
<td>3</td>
</tr>
</tbody>
</table>

   Add the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRE 222</td>
<td>Agribusiness and Food Industry Sales</td>
<td>3</td>
</tr>
<tr>
<td>AFRE 232</td>
<td>Commodity Marketing I</td>
<td>3</td>
</tr>
</tbody>
</table>

   Effective Fall 2021.

2. Change the requirements for the Agricultural Technology Certificate in Electrical Technology in the Institute of Agricultural Technology.

   a. Under the heading Electrical Technology replace the entire entry with the following:

   **Requirements for Electrical Technology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 102</td>
<td>Electrical Lighting for Residential and Agricultural Facilities</td>
<td>2</td>
</tr>
<tr>
<td>AE 172</td>
<td>Electrical Wiring I</td>
<td>4</td>
</tr>
<tr>
<td>AE 173</td>
<td>Electrical Occupations</td>
<td>1</td>
</tr>
<tr>
<td>AE 182</td>
<td>Electrical Wiring II</td>
<td>3</td>
</tr>
<tr>
<td>AE 185</td>
<td>Electrical Applications</td>
<td>3</td>
</tr>
<tr>
<td>AE 192</td>
<td>Electrical Wiring III</td>
<td>4</td>
</tr>
<tr>
<td>AE 194</td>
<td>Electrical Systems Planning</td>
<td>4</td>
</tr>
<tr>
<td>AT 045</td>
<td>Agricultural Communications</td>
<td>2</td>
</tr>
</tbody>
</table>
PART I – NEW PROGRAMS AND PROGRAM CHANGES

1. AT 071 Technical Mathematics 2
   AT 293 Professional Internship in Agricultural Technology 3
   TSM 121 Fundamentals of Electricity 4
   TSM 130 Energy Efficiency and Conservation in Agricultural Systems 3
   TSM 222 Fundamentals of Automation and Controls 3

   Students who demonstrate proficiency through placement testing for AT 045 and AT 071 will take elective course work to substitute the credit in those courses.

2. The following course or equivalent certification:
   KIN 125 First Aid and Personal Safety 3
   Equivalent certification is current first aid and CPR certification.

3. Complete 8 to 14 credits of additional Agricultural Technology courses chosen in consultation with and approved by the program coordinator.

   Effective Summer 2022.

3. 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 April 12, 2021 meeting.

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

      (1) In item 3. a. change the total credits from '56 to '55'.

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

         ANS 110 Introductory Animal Agriculture 4
         TE 250 Human Diversity, Power and Opportunity in Social Institutions 3

         Add the following courses:

         ANS 110 Introductory Animal Agriculture 3
         TE 101 Social Foundations of Justice and Equity Education 3

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

         ABM 100 Decision-making in the Agri-Food System 3
         ABM 130 Farm Management I 3

         Add the following courses:

         AFRE 100 Decision-making in the Agri-Food System 3
         AFRE 130 Farm Management I 3

      (4) Delete item 3. e.

      (5) Reletter item 3. f. to item 3. e.

   Effective Fall 2021.
COLLEGE OF ARTS AND LETTERS

1. Change the requirements for the Graduate Certificate in Global Studies in the Arts and Humanities in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its April 12, 2021 meeting.

   (1) Under the heading Requirements for the Graduate Certificate in Global Studies in the Arts and Humanities make the following changes:

      (1) Change item 3. to the following:

         Completion of a 3-credit international experience through participation in a study abroad program, an approved internship with a global dimension, advanced language studies, or mentored research experience (independent study). The experience is chosen by the student in consultation with their primary advisor and approved by the Director of the Global Studies in the Arts and Humanities program.

      (2) Delete item 4.:

         Demonstration of oral proficiency in a language beyond one that is required by the student’s degree program. Demonstrating oral proficiency in a language that only reading proficiency is required by the student’s degree program can also meet this requirement. Students can meet this requirement by:

            a. Successful completion of an appropriate language course at the 400-level or above, or
            b. Completion of an oral proficiency exam conducted by the Center for Language Teaching Advancement (CeLTA).

   Effective Spring 2022.

2. Establish a Minor in Writing in the Department of Writing, Rhetoric and American Cultures. The University Committee on Undergraduate Education (UCUE recommended approval of this request at its February 18, 2021 meeting.

   a. Background Information:

      The Minor in Writing, administered by the Department of Writing, Rhetoric, and American Cultures, will support students who wish to develop as writers beyond what is offered in Tier I or Tier II but who do not wish to become professional writing majors. These students are committed to another area of research or praxis, but recognize the value of writing for their field and communities. This dual attention—to a distinct professional field and its intersection with public writing—is distinctive of students in the minor.

      The creation of a Minor in Writing is an opportunity to engage with MSU undergraduates in the SPARTANS WILL mission. Spartan alumni, community advocates, and industry professionals with expertise in writing for specific audiences can better work for change within our global information economy. Students must be sophisticated communicators to work for change in our increasingly interconnected world. This minor supports MSU’s land grant mission of cross- and interdisciplinary enterprises by helping students to connect the humanities to the sciences and professions.

   b. Academic Programs Catalog Text:

      The Minor in Writing, which is administered by the Department of Writing, Rhetoric and American Cultures, provides exposure to rhetorical analysis, community-based research, and writing strategies of the discipline of writing and rhetoric. This knowledge and skill base may be used to complement majors in a wide range of fields. The minor is intended for students who wish to develop as writers beyond what is offered in Tier I or Tier II but who do not wish to become professional writing majors, but recognize the value of writing for their field and communities.
The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University except those in the Bachelor of Arts Degree in Professional and Public Writing. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements of the minor should consult an undergraduate advisor in the Department of Writing, Rhetoric and American Cultures.

### Requirements for the Minor in Writing

Complete a minimum of 15 credits from the following:

1. Both of the following courses (6 credits):
   - WRA 202 Introduction to Professional and Public Writing 3
   - WRA 330 Writing Research in Communities and Cultures 3
2. One of the following courses (3 credits):
   - WRA 325 Writing and Multimodality 3
   - WRA 415 Digital Rhetoric 3
3. One of the following courses (3 credits):
   - WRA 331 Writing in the Public Interest (W) 3
   - WRA 333 Writing in Corporate Contexts 3
   - WRA 335 Writing in Scientific Contexts 3
   - WRA 337 Writing and Public Policy 3
4. Complete 3 to 6 credits of electives in WRA or XA at the 200-level or higher as approved by the student's academic advisor.

Effective Spring 2022.

---

**ELI BROAD COLLEGE OF BUSINESS**

1. Change the requirements for the Master of Science degree in Accounting in the Department of Accounting and Information Systems. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

   a. Under the heading **Requirements for the Master of Science Degree in Accounting**, make the following changes:

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

      - ACC 827 Accounting Analytics 3

      (2) In item 2., in the **Information Systems** concentration, delete the following course:

      - ACC 827 Accounting Analytics 3

      (3) In item 3., **Electives**, change the credits from '12 to 15' to '9 to 12'.

Effective Fall 2021.
2. Change the requirements of the Bachelor of Arts degree in Hospitality Business in The School of Hospitality Business.

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

   (1) In item 2. a., change the total credits from ‘21’ to ‘24’ and add the following course:
       FI 320 Introduction to Finance     3

   (2) In item 2. b. change the total credits from ‘39’ to ‘36’ and delete the following course:
       HB 311 Hospitality Finance     3

   (3) In item 2. d., make the following changes:
       (a) Under Events delete the following course:
           HB 349 Hospitality Facilities Management     3
       (b) Under Food and Beverage delete the following course:
           HB 349 Hospitality Facilities Management     3
       (c) Delete the Lodging area.
       (d) Rename the Real Estate area to Lodging and Real Estate and delete the following courses:
           HB 349 Hospitality Facilities Management     3
           HB 492 Hospitality Business Real Estate
               Professional Skills Workshop     1 to 3
       (e) Under Other add the following course:
           HB 349 Hospitality Facilities Management     3

Effective Spring 2022.

3. Change the requirements for the Minor in Hospitality Real Estate in the School of Hospitality Business.

a. Under the heading Admission delete the following course:

CSE 101 Computing Concepts and Competencies     3

b. Under the heading Minor in Hospitality Real Estate delete the following course:

HB 311 Hospitality Finance     3

Effective Spring 2022.
Establish a **Master of Arts** degree in **Applied Behavior Analysis and Autism Spectrum Disorder** in the Department of Counseling, Educational Psychology, and Special Education. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 8, 2021 meeting.

### Background Information:

The proposed Master of Arts Degree in Applied Behavior Analysis and Autism Spectrum Disorder will replace the Graduate Certificate in Applied Behavior Analysis (GC-ABA).

MSU currently has two graduate programs to prepare students to become eligible to be credentialed as a Board Certified Behavior Analyst (BCBA). The M.A. in Applied Behavior Analysis provides the course work and experience and supervision required for BCBA credentialing. This program is offered in a hybrid format, with a mixture of online and in-person classes and experiences. The program is limited to around 8 students a year to meet accreditation requirements. The second route to BCBA credentialing is the Graduate Certificate in Applied Behavior Analysis (GC-ABA). The GC-ABA was designed for students in the Master of Arts Degree in Special Education (autism spectrum disorder [ASD] emphasis) to earn 9 additional credit hours of course work needed to qualify for the BCBA credential. Students taking this path are responsible for getting required professional experiences and supervision elsewhere in settings employing ABA practices.

For various reasons—increased credit requirements for the BCBA credential, declining enrollment in the Master of Arts Degree in Special Education, and decreased eligibility for financial aid—enrollment in and demand for the GC-ABA has dropped. At the same time, demand for professionals with the BCBA credential is extraordinarily high. A recent market analysis conducted by BurningGlass Technologies ([https://www.bacb.com/wp-content/uploads/2020/05/US-Employment-Demand-for-Behavior-Analysts_2020_.pdf](https://www.bacb.com/wp-content/uploads/2020/05/US-Employment-Demand-for-Behavior-Analysts_2020_.pdf)) indicates 19,563 job openings for professionals with a BCBA credential in the United States. In 2019 in Michigan, there were 612 job postings for professionals with a BCBA credential.

To increase accessibility to graduate education that leads to a credential in this high demand area, we propose replacing the GC-ABA with a fully online 30-credit Master of Arts program focusing on Applied Behavior Analysis and Autism Spectrum Disorder. The program will provide the course work required for the BCBA credential. Students will be responsible for their own supervision and experiences required for the BCBA credential, which is common with many M.A. ABA programs around the country. The program will also include development of expertise in autism spectrum Disorder (ASD), which is a primary application area of ABA and will enhance marketability of graduates.

Once the new Master of Arts Degree in Applied Behavior Analysis and Autism Spectrum Disorder is in place, we will discontinue the GC-ABA. With increased credentialing requirements, the GC-ABA is no longer viable as a separate graduate certificate.

The Master of Arts Degree in Applied Behavior Analysis will continue to provide full preparation for BCBA certification for a small number of students. The new Master of Arts Degree in Applied Behavior Analysis and Autism Spectrum Disorder will offer a route to BCBA credentialing to a larger number of students by providing the course work portion of credentialing requirements.

Although several institutions throughout the country offer graduate programs to fulfill course work requirements to earn the BCBA credential, few universities in Michigan offer such degree programs. The need for experts in Applied Behavior Analysis (ABA) and autism spectrum disorder is high, with the demand for professionals with a BCBA credential far exceeding the supply.

### Academic Programs Catalog Text:

The Master of Arts degree in Applied Behavior Analysis and Autism Spectrum Disorder is designed to prepare students to effectively implement the science of Applied Behavior Analysis (ABA) and become experts in autism intervention in schools, clinics, or homes. The program provides the opportunity to develop in-depth knowledge and skills for implementing effective autism interventions based on the principles of Applied Behavior Analysis.
The program offers the graduate-level course work required to be eligible for taking the national examination for certification by the Behavior Analyst Certification Board in accordance with governing bodies in behavior analysis. The program does not include the supervised fieldwork component required for certification eligibility. Students are responsible for securing an appropriate fieldwork site with credentialed supervision and completing their fieldwork independent of the program. Students desiring a program that includes supervised fieldwork should consider the Master of Arts in Applied Behavior Analysis.

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

**Admission**

An applicant to the Master of Arts Degree in Applied Behavior Analysis and Autism Spectrum Disorder program must:

1. Submit both departmental and University application forms.
2. Submit three letters of recommendation from professionals knowledgeable about the applicant’s academic potential to pursue graduate study and competence or potential to implement Applied Behavior Analysis with people with autism. It is highly recommended that at least one letter comes from a current or former professor.
3. Submit a statement of professional goals that clearly describe the applicant’s reasons for pursuing the master’s degree and the goals the degree will help them attain.

Applicants are reviewed by faculty who look for indicators of a high probability of success. The following factors are significant in determining admission to the Master of Arts Degree in Applied Behavior Analysis and Autism Spectrum Disorder:

1. A grade-point average of 3.00 or higher in the last two years of undergraduate and graduate courses.
2. Experience working with children and youth with disabilities in a school or other educational setting.
3. Professional goals that are consistent with the objectives of the degree program.
4. A test of English proficiency for students for whom English is not a first language.

Admission to the program is competitive and subject to space and availability. Not all students who meet the above requirements will be admitted. Students will be admitted only during the Fall semester. Applications must be submitted by February 1st.

**Requirements for the Master of Arts Degree in Applied Behavior Analysis and Autism Spectrum Disorder**

The program is available under Plan B (without thesis) and online only. Students must complete a total of 30 credits from the following:

<table>
<thead>
<tr>
<th>CREDIT</th>
<th>COURSE NUMBER</th>
<th>COURSE NAME</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>All of the following courses (27 credits):</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CEP 843</td>
<td>Autism Spectrum Disorders: Characteristics and Educational Implications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 844</td>
<td>Applied Behavior Analysis for Teachers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 845</td>
<td>Autism Spectrum Disorders: Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 846</td>
<td>Autism Spectrum Disorders: Advanced Topics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 848</td>
<td>Supervision in Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 851</td>
<td>Concepts and Principles in Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 854</td>
<td>Ethics in Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 855</td>
<td>Verbal Behavior in Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CEP 942</td>
<td>Single-case Experimental Designs for Intervention Research</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete 3 additional credits in courses approved by the student’s academic advisor.
3. Completion of a final evaluation.

Effective Fall 2021.
2. Change the requirements for the **Master of Arts** degree in **Rehabilitation Counseling** in the Department of Counseling, Educational Psychology and Special Education. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

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

      (1) Delete the following courses:

      - CEP 893A Rehabilitation Counseling Internship 9
      - CEP 894A Rehabilitation Counseling Practicum 6

      Add the following courses:

      - CEP 893A Rehabilitation Counseling Internship 12
      - CEP 894A Rehabilitation Counseling Practicum 3

      Effective Fall 2021.

3. Establish a **Graduate Specialization** in **Education Policy and Social Sciences** in the Department of Educational Administration. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 8, 2021 meeting.

   a. **Background Information:**

      Educational policy research increasingly relies on interdisciplinary approaches and mixed methods research to address complex real-world policy challenges. The joint interests of faculty from the departments of educational administration, economics, and political science have led to successful proposals for research projects and federal support for students interested in gaining expertise in Education Policy and Social Sciences. This specialization program will train doctoral students to conduct research on improving education systems through rigorous exploratory and efficacy methodologies.

      MSU is particularly well-situated to offer this programming to our graduate students. The College of Education is home to the Education Policy Innovation Collaborative (EPIC) - a research center that serves as strategic partner to the Michigan Department of Education. We have faculty across different disciplines (educational policy, K-12 education, HALE, economics, and political science) who conduct rigorous mixed methods research on education policy and implementation. This program will knit together existing resources at MSU to offer comprehensive course work to train students to conduct research in Education Policy and Social Sciences.

      The objective of the Specialization in Education Policy and Social Sciences is to provide enrolled doctoral students with a firm understanding of the implementation and outcomes of education policies, as well as the methodological skills to evaluate education policies both in terms of their implementation and outcomes. The eventual goal is for students to graduate with the ability to help researchers, practitioners, and policymakers understand how policies are developed and implemented, and how this may lead to differential outcomes. At the same time, through their courses in economics and political science, students will gain an understanding of how to apply theory and methods from these fields to education policy research.

   b. **Academic Programs Catalog Text:**

      The Graduate Specialization in Education Policy and Social Sciences, which is administered by the Department of Educational Administration, trains doctoral students to conduct research on improving education systems through rigorous exploratory and efficacy methodologies.

      The specialization is available as an elective to students who are enrolled in doctoral degree programs at Michigan State University. With the approval of the department and college that administers the student’s degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the doctoral degree. The students program of study must be approved by the advisor for the specialization.
PART I – NEW PROGRAMS AND PROGRAM CHANGES

Admission

Students must declare intention to pursue the Graduate Specialization in Education Policy and Social Sciences prior to the start of the 3rd year in a Ph.D. program.

Requirements for the Graduate Specialization in Education Policy and Social Sciences

Students must complete the following with a 3.5 grade-point average in courses across the specialization (18 credits):

1. Both of the following courses (6 credits):
   - EAD 932 Education Policy Implementation 3
   - EAD 933 Evaluation of Education Policy Implementation 3

2. One of the following courses (3 credits):
   - EAD 907 Education Policy for Immigrant and English Language Learner Students 3
   - EAD 925 Policy and Practice in Education 3
   - EAD 926 School Finance and Operations 3
   - EAD 948 Advanced Economics of Education 3
   - EAD 949 Advanced Seminar in Education Policy 3
   - EAD 967 Policy Development and Analysis in Postsecondary Education 3

3. At least two of the following courses (6 credits):
   - EAD 948 Advanced Economics of Education 3
   - EC 835 Public Expenditures 3
   - EC 880 Labor Economics I 3
   - EC 881 Labor Economics II 3
   - PLS 811 Proseminar in Policy Analysis 3
   - PLS 820 Proseminar in American Politics 3
   - PLS 821 State Government and Politics 3
   - PLS 822 Urban Government and Politics 3
   A course used to fulfill item 2. may not be used to fulfill item 3.

4. At least one of the following courses (3 credits):
   - EAD 946B Econometric Analysis for Education Policy 3
   - EC 821A Cross Section and Panel Data Econometrics I 3
   - EC 823 Applied Econometrics 3

5. Submit a policy brief summarizing research findings on education policy evaluation or implementation.

6. Submit a dissertation that, in the judgment of the student’s dissertation committee, represents the integration of education policy and social sciences and the student’s primary field and includes research that is relevant to practical issues in United States education.

Effective Fall 2021.

4. Change the requirements for the Doctor of Philosophy degree in Kinesiology in the Department of Kinesiology. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

a. Under the heading Doctor of Philosophy make the following change:

(1) Change the name of the ‘Athletic Training’ concentration to ‘Athletic Injury and Rehabilitation’.

Effective Fall 2021.
5. Establish a Graduate Certificate in Sport Leadership and Administration in the Department of Kinesiology. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its March 15, 2021 meeting.

a. Background Information:

The new Graduate Certificate in Sport Leadership and Administration is an expansion of existent curricular offerings. It maintains coherence with requested changes to the Master of Science degree in Sport Coaching, Leadership, and Administration by mapping onto requirements for a new Sport Administration concentration within the degree. The existent Graduate Certificate in Sport Coaching and Leadership, which is being renamed to Sport Coaching, is being realigned to mirror requirements for the revised Coaching concentration in the master’s degree program. The addition of this graduate certificate will allow students greater choice of a curricular offering that fits with their career goals.

b. Academic Programs Catalog Text:

The Graduate Certificate in Sport Leadership and Administration provides opportunities for students to develop expertise in the operational and administrative functions required for careers in sport organizations at the intercollegiate, interscholastic, and community sports levels. It exposes students to knowledge of the legal, financial, managerial, governance and ethical aspects of sport. The certificate is available only online.

Admission

To be considered for admission to the Graduate Certificate in Sport Leadership and Administration students must:
1. have completed a bachelor's degree.
2. complete the Intent to Enroll form if you are currently enrolled in a graduate degree program at Michigan State University.

Students who are not enrolled at Michigan State University must:
1. submit a university application and application fee.
2. provide transcripts from all previous institutions of higher education.
3. submit an academic statement of 750 words that clearly describes the applicant’s reasons for pursuing the certificate and the goals that the certificate will help them attain.
4. submit a current resume of no more than two pages.
5. take a test of English language proficiency for students for whom English is not a first language.

Applications are reviewed by faculty who look for indications of high probability of success. Factors that are significant in determining admission are:
1. a grade-point average of 3.0 or higher in the last two years of all undergraduate and graduate course work.
2. professional goals that are consistent with the objectives of the graduate certificate.
3. evidence of an understanding of the fundamentals of the sport industry.
4. relevant career experiences, including employment, internships, or field experiences.

Requirements for the Graduate Certificate in Sport Leadership and Administration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 849</td>
<td>Theory and Practice of Modern Sport Leadership</td>
<td>3</td>
</tr>
<tr>
<td>KIN 851</td>
<td>The Sport Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>KIN 852</td>
<td>Ethics in Sport Coaching, Leadership, and Admin</td>
<td>1</td>
</tr>
<tr>
<td>KIN 853</td>
<td>Athletic Administration and Governance</td>
<td>3</td>
</tr>
<tr>
<td>KIN 854</td>
<td>Legal Aspects of Sport</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective Fall 2022.
COLLEGE OF HUMAN MEDICINE

1. Change the requirements for the Master of Science degree in Biostatistics in the Department of Epidemiology and Biostatistics. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

   a. Under the heading Requirements for the Master of Science degree in Biostatistics replace the entire entry with the following:

   The program is available under either Plan A (with thesis) or Plan B (without thesis). A total of 33 credits is required for both Plan A or Plan B, with no more than 6 credits at the 400-level.

   The student's program of study must be approved by the student's academic advisor and guidance committee with the approval of the Dean of the College of Human Medicine.

   In addition to meeting the requirements of the university and of the College of Human Medicine, the student must meet the following:

   CREDITS

   1. All of the following courses (11 credits):

      EPI 808B Advanced Biostatistics 3
      EPI 810 Introductory Epidemiology 3
      EPI 826B Categorical Data Analysis 3
      EPI 828 Seminar in Responsible Conduct of Research 1
      EPI 856 Statistical Consulting in Public Health 1

   2. Complete one of the following courses (3 credits):

      EPI 853B Statistical Computing 3
      STT 802 Statistical Computation 3

   3. Complete 12 credits (Plan A) or 15 credits (Plan B) in biostatistics electives from the following:

      EC 821A Cross Section and Panel Data Econometrics I 3
      EC 821B Cross Section and Panel Data Econometrics II 3
      EPI 851 SAS Programming I: Essentials 1
      EPI 852 SAS Programming II: Data Management and Analysis 1
      EPI 855 Biostatistical Modeling in Genomic Data Analysis 3
      EPI 858 Clinical Trials 3
      EPI 951 Latent Variable Modeling 3
      EPI 952 Duration and Severity Analysis 3
      EPI 953 Analytical Strategies for Observational Studies 3
      FOR 875 R Programming for Data Sciences 3
      STT 464 Statistics for Biologists 3
      STT 465 Bayesian Statistical Methods 3
      STT 801 Design of Experiments 3
      STT 814 Advanced Statistics for Biologists 4
      STT 825 Sample Surveys 3
      STT 847 Analysis of Survival Data 3
      STT 861 Theory of Probability and Statistics I 3
      STT 862 Theory of Probability and Statistics II 3

     Additional elective courses may be chosen with advisor approval.

   4. Complete 3 additional credits of epidemiology electives from the following:

      EPI 805 Readings in the Historical Roots of Epidemiological Thought 3
      EPI 812 Causal Inference in Epidemiology 3
      EPI 815 Epidemiology of Cardiovascular Disease 3
      EPI 816 Perinatal Epidemiology 3
      EPI 817 Epidemiology of Communicable Diseases 3
      EPI 819 Spatial Epidemiology and Medical Geography 3
      EPI 823 Cancer Epidemiology 3
      EPI 835 Neuroepidemiology 3
      EPI 890 Independent Study in Epidemiology and Biostatistics 1 to 3
      EPI 910 Themes in Contemporary Epidemiology 3
      EPI 977 Social Epidemiology 3
      EPI 979 Advanced Topics of Infectious Disease Epidemiology 3
      LCS 829 Design and Conduct of Epidemiologic Studies and Clinical Trials 3
5. Attend all MSU Graduate School Responsible Conduct of Research (RCR) Workshops (Human).

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


Additional Requirements for Plan B
1. Complete a capstone project through enrollment in 1 credit of EPI 890
   Independent Study in Epidemiology and Biostatistics.

2. Pass a final oral examination or evaluation of the capstone project.

Effective Fall 2021.

2. Change the requirements for the Doctor of Philosophy degree in Biostatistics in the Department of Epidemiology and Biostatistics. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.
   a. Under the heading Admission, in the second paragraph, change ‘the first 30 credits’ to ‘the first 33 credits’.
   b. Under the heading Requirements for the Doctor of Philosophy Degree in Biostatistics replace the entire entry with the following:

   The doctoral degree program offers three concentration areas: design and analysis of medical studies; big data and statistical genetics; and ad biometry, a flexible option for students with diverse interests. The concentration is selected in consultation with a faculty advisor and guidance committee.

   CREDITS

   Students must:

   1. Complete all of the following courses (13 credits):
      EPI 810 Introductory Epidemiology
      EPI 828 Seminar in Responsible Conduct of Research
      EPI 860 Advanced Inference for Biostatistics
      STT 867 Linear Model Methodology
      STT 868 Mixed Models: Theory, Methods and Applications

   2. Complete one of the following concentrations:
      Design and Analysis of Medical Studies
      1. One of the following courses (3 credits):
         EPI 858 Clinical Trial I
         EPI 952 Duration and Severity Analysis
         Or
         STT 847 Analysis of Survival Data
      2. Complete 11 credits of elective course work:
         ANS 814 Advanced Statistics for Biologists
         CSE 331 Algorithms and Data Structures
         CSE 480 Database Systems
         CSE 482 Big Data Analysis
         CSE 847 Machine Learning
         CSE 881 Data Mining
         EC 821A Cross Section and Panel Data Econometrics I
         EC 821 Cross Section and Panel Data Econometrics II
         EPI 812 Causal Inference in Epidemiology
         EPI 855 Biostatistical Modeling in Genomic Data Analysis
         EPI 880 Selected Topics in Biostatistics
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI 920</td>
<td>Advanced Methods in Epidemiology and Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EPI 950</td>
<td>Advanced Biostatistical Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 952</td>
<td>Duration and Severity Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EPI 953</td>
<td>Analytical Strategies for Observational Studies</td>
<td>3</td>
</tr>
<tr>
<td>EPI 990</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>STT 801</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>STT 825</td>
<td>Sample Surveys</td>
<td>3</td>
</tr>
<tr>
<td>STT 855</td>
<td>Statistical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>STT 861</td>
<td>Theory of Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STT 862</td>
<td>Theory of Probability and Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>STT 873</td>
<td>Statistical Learning and Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>STT 874</td>
<td>Introduction to Bayesian Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional courses may be chosen with advisor approval.</td>
<td></td>
</tr>
</tbody>
</table>

**Big Data and Statistical Genetics**

1. One of the following courses:
   - EPI 855 Biostatistical Modeling in Genomic Data Analysis   3
   - Or
   - STT 855 Statistical Genetics                                3
   - CSE 231 Introduction to Programming I                       3
   - Or
   - CSE 232 Introduction to Programming II                      4
   - STT 456 Actuarial Models II                                 3

2. Complete 11 credits of elective course work:
   - ANS 814 Advanced Statistics for Biologists                  4
   - CSE 331 Algorithms and Data Structures                      3
   - CSE 480 Database Systems                                    3
   - CSE 482 Big Data Analysis                                   3
   - CSE 847 Machine Learning                                    3
   - CSE 881 Data Mining                                         3
   - EC 821A Cross Section and Panel Data Econometrics I         3
   - EC 821 Cross Section and Panel Data Econometrics II         3
   - EPI 812 Causal Inference in Epidemiology                    3
   - EPI 858 Clinical Trials                                     3
   - EPI 880 Selected Topics in Biostatistics                   3
   - EPI 920 Advanced Methods in Epidemiology and Applied Statistics | 3
   - EPI 950 Advanced Biostatistical Methods in Epidemiology     | 3
   - EPI 952 Duration and Severity Analysis                      | 3
   - EPI 953 Analytical Strategies for Observational Studies     | 3
   - EPI 990 Independent Study                                   | 3
   - STT 801 Design of Experiments                               | 3
   - STT 825 Sample Surveys                                      | 3
   - STT 861 Theory of Probability and Statistics I              | 3
   - STT 862 Theory of Probability and Statistics II             | 3
   - STT 873 Statistical Learning and Data Mining                | 3
   - STT 874 Introduction to Bayesian Analysis                   | 3
   - Additional courses may be chosen with advisor approval.    |         |

**Biometry**

1. Complete 14 credits of elective course work:
   - ANS 814 Advanced Statistics for Biologists                  4
   - CSE 331 Algorithms and Data Structures                      3
   - CSE 480 Database Systems                                    3
   - CSE 482 Big Data Analysis                                   3
   - CSE 847 Machine Learning                                    3
   - CSE 881 Data Mining                                         3
EC 821A Cross Section and Panel Data Econometrics I 3
EC 821 Cross Section and Panel Data Econometrics II 3
EPI 812 Causal Inference in Epidemiology 3
EPI 855 Biostatistical Modeling in Genomic Data Analysis 3
EPI 858 Clinical Trials 3
EPI 880 Selected Topics in Biostatistics 3
EPI 920 Advanced Methods in Epidemiology and Applied Statistics 3
EPI 950 Advanced Biostatistical Methods in Epidemiology 3
EPI 952 Duration and Severity Analysis 3
EPI 953 Analytical Strategies for Observational Studies 3
EPI 990 Independent Study 3
STT 801 Design of Experiments 3
STT 825 Sample Surveys 3
STT 847 Survival Analysis 3
STT 855 Statistical Genetics 3
STT 861 Theory of Probability and Statistics I 3
STT 862 Theory of Probability and Statistics II 3
STT 873 Statistical Learning and Data Mining 3
STT 874 Introduction to Bayesian Analysis 3

Additional courses may be chosen with advisor approval.

2. Attend all MSU Graduate School Responsible Conduct of Research (RCR) Workshops (human).
3. Attend 80% of department-sponsored Seminars.
4. Attend 80% of department Ph.D. Journal Club meetings.
5. Present at one Ph.D. Journal Club meeting.
6. Pass a comprehensive examination.

**Academic Standards**

Students will sit for a comprehensive examination after the necessary course work is completed, typically at the end of the first year of study. A student who fails the comprehensive examination may repeat it only once. A retake examination will generally be given in January.

Effective Fall 2021.

3. Change the requirements for the Master of Science degree in Epidemiology in the Department of Epidemiology and Biostatistics. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

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

(1) Change the entry paragraph to the following:

Students must complete 40 credits, with no more than 6 credits at the 400-level.

(2) Replace items 3. and 4. with the following:

3. An additional 6 credits of elective course work from the following list of approved courses:

EPI 805 Readings in the Historical Roots of Epidemiological Thought 3
EPI 815 Epidemiology of Cardiovascular Disease 3
### PART I – NEW PROGRAMS AND PROGRAM CHANGES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI 816</td>
<td>Perinatal Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 823</td>
<td>Cancer Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 835</td>
<td>Neuroepidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 890</td>
<td>Independent Study in Epidemiology and Biostatistics</td>
<td>1 to 3</td>
</tr>
<tr>
<td>EPI 910</td>
<td>Themes in Contemporary Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 920</td>
<td>Advanced Methods in Epidemiology and Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EPI 950</td>
<td>Advanced Biostatistical Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 952</td>
<td>Duration and Severity Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EPI 953</td>
<td>Analytical Strategies for Observational Studies</td>
<td>3</td>
</tr>
<tr>
<td>EPI 977</td>
<td>Social Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>EPI 979</td>
<td>Advanced Topics of Infectious Disease Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>STT 847</td>
<td>Analysis of Survival Data</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional elective courses may be chosen with advisor approval.

4. Attend all MSU Graduate School Responsible Conduct of Research (RCR) Workshops (Human).

5. Pass an oral examination in defense of the thesis.

Effective Fall 2021.

4. Change the requirements for the **Doctor of Philosophy** degree in **Epidemiology** in the Department of Epidemiology and Biostatistics. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

   a. Under the heading **Admission** replace item 1. with the following:

   1. an applicant must have earned a bachelor’s, master of science or a master of public health in epidemiology degree with at least 40 credits.

   b. Under the heading **Requirements for the Doctor of Philosophy** degree in **Epidemiology** replace the entire entry with the following:

   Students must complete 51 credits for the degree with no more than 6 credits at the 400-level.

   1. All of the following courses (7 credits):
      - EPI 805 Readings in the Historical Roots of Epidemiological Thought 3
      - EPI 828 Seminar in Responsible Conduct of Research 1
      - EPI 910 Themes in Contemporary Epidemiology 3

   2. Two of the following courses (6 credits):
      - EPI 855 Biostatistical Modeling in Genomic Data Analysis 3
      - EPI 920 Advanced Methods in Epidemiology and Applied Statistics 3
      - EPI 950 Advanced Biostatistical Methods in Epidemiology 3
      - EPI 952 Duration and Severity Analysis 3
      - EPI 953 Analytical Strategies for Observational Studies 3

   3. Complete a minimum of 15 credits of elective course work from the following list of approved courses. Additional courses may be chosen with advisor approval.
      - EPI 815 Epidemiology of Cardiovascular Disease 3
      - EPI 816 Perinatal Epidemiology 3
      - EPI 823 Cancer Epidemiology 3
      - EPI 835 Neuroepidemiology 3
      - EPI 890 Independent Study in Epidemiology and Biostatistics 1 to 3
      - EPI 910 Themes in Contemporary Epidemiology 3
      - EPI 920 Advanced Methods in Epidemiology and Applied Statistics 3
      - EPI 950 Advanced Biostatistical Methods in Epidemiology 3
      - EPI 952 Duration and Severity Analysis 3
      - EPI 953 Analytical Strategies for Observational Studies 3
      - EPI 977 Social Epidemiology 3
      - EPI 979 Advanced Topics of Infectious Disease Epidemiology 3
      - STT 847 Analysis of Survival Data 3

4. Attend all MSU Graduate School Responsible Conduct of Research (RCR) Workshops.
5. Attendance at 80% of all presentations in the departmental epidemiology seminar series during the period of course work.
6. Attendance at 80% of Ph.D. Journal Club meetings.
7. Present at one Ph.D. Journal Club meeting.
8. Pass a Qualifying Examination at the end of the first year of study.
10. Successfully complete 24 credits of Epidemiology 999 Doctoral Dissertation Research.
11. Successfully defend the oral defense of the doctoral dissertation.

Effective Fall 2021.

LYMAN BRIGGS COLLEGE

1. Recognize the Forestry major leading to the Bachelor of Science degree in the College of Agriculture and Natural Resources as a Coordinate Major in Lyman Briggs College.

Effective Fall 2021.

COLLEGE OF NATURAL SCIENCE

1. Change the requirements for the Disciplinary Teaching Minor available for secondary certification in Biology in the College of Natural Science. The Teacher Education Council (TEC) approved this request at its April 12, 2021 meeting.

   a. Under the heading Biology make the following changes:

      (1) Under the second requirement ‘All of the following courses’, change the total credits from ‘14 to 16’ to ‘16 to 18’ and add the following courses:

      | Course Code | Course Title                                         | Credits |
      |-------------|-----------------------------------------------------|---------|
      | TE 409      | Crafting Teaching Practices in the Secondary Teaching Minor | 1       |
      | TE 503      | Internship in Teaching Diverse Learners in Additional Endorsement Areas | 1       |

   (2) Change the total credits from ‘23 to 26’ to ‘25 to 28’.

Effective Fall 2021.

2. Change the requirements for the Disciplinary Teaching Minor in Chemistry in the Department of Chemistry. The Teacher Education Council (TEC) approved this request at its April 12, 2021 meeting.

   a. Under the heading Chemistry make the following changes:

      (1) Delete the following:

      The following course:

      | Course Code | Course Title                             | Credits |
      |-------------|------------------------------------------|---------|
      | CEM 383     | Introductory Physical Chemistry I        | 3       |
Add the following:

One of the following courses:

- CEM 444 Chemical Safety
- ISE 401 Science Laboratories for Secondary Schools (W)

The following courses:

- CEM 383 Introductory Physical Chemistry I
- TE 409 Crafting Teaching Practice in the Secondary Teaching Minor
- TE 503 Internship in Teaching Diverse Learners in Additional Endorsement Areas

(2) Change the total credits from ‘23’ to ‘26 to 29’.

Effective Fall 2021.

3. Change the requirements for the Disciplinary Teaching Minor in Earth Science in the Department of Earth and Environmental Sciences. The Teacher Education Council (TEC) approved this request at its April 12, 2021 meeting.

a. Under the heading Earth Science make the following changes:

(1) Delete the following course:

- GLG 303 Oceanography

Add the following courses:

- GLG 303 Oceanography
- TE 409 Crafting Teaching Practice in the Secondary Teaching Minor
- TE 503 Internship in Teaching Diverse Learners in Additional Endorsement Areas

(2) Change the total credits from ‘22’ to ‘23’.

Effective Fall 2021.

3. Change the requirements for the Disciplinary Teaching Minor in Mathematics-Secondary in the Department of Mathematics. The Teacher Education Council (TEC) approved this request at its April 12, 2021 meeting.

a. Under the heading Mathematics-Secondary make the following changes:

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

- MTH 317H Honors Linear Algebra

Add the following course:

- MTH 317H Honors Linear Algebra

(2) Add the following item 5.: 

5. Both of the following courses (2 credits):
- TE 409 Crafting Teaching Practice in the Secondary Teaching Minor
- TE 503 Internship in Teaching Diverse Learners in Additional Endorsement Areas
(3) Change the total credits from ‘20 to 24’ to ‘23 to 27’.

Effective Fall 2021.

4. Change the requirements for the Disciplinary Teaching Minor in Physics in the Department of Physics and Astronomy. The Teacher Education Council (TEC) approved this request at its April 12, 2021 meeting.
   a. Under the heading Physics make the following changes:
      
      (1) Add the following courses:
      
      | Course | Title | Credits |
      |--------|-------|---------|
      | TE 409 | Crafting Teaching Practice in the Secondary Teaching Minor | 1 |
      | TE 503 | Internship in Teaching Diverse Learners in Additional Endorsement Areas | 1 |
      
      (2) Change the total credits from ‘20’ to ‘22’.

Effective Fall 2021.

COLLEGE OF SOCIAL SCIENCE

1. Establish a Master of Arts in Criminal Justice in the School of Criminal Justice. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 8, 2021 meeting.
   a. Background Information:

   The School of Criminal Justice (SCJ) Master of Science (M.S.) degree is currently offered in an on-campus and online format. The on-campus program primarily serves individuals who wish to pursue a career in research and/or teaching or pursue a doctoral degree, whereas the online program is the preferred method of delivery for professional students who are seeking a terminal degree and intend to advance in careers in the field. Both formats have identical core requirements and are conferred as the same degree; however, the online program does not require or permit students to complete a thesis. Instead, students complete a capstone course focused on policy analysis. After a recent curriculum audit by the MSU Graduate School, the SCJ was informed that if the on-campus and online programs were indeed identical, then students in the online format had to be provided the option of completion of a thesis. Given the format and the differing career goals of the populations served by the M.S. in SCJ, we propose to maintain the current curriculum for the on-campus M.S. and transition the online program to a Master of Arts (M.A.) degree.

   The rationale for this proposal is based on an analysis of data relating to the career objectives of current and former MSU SCJ online students, as well as a comparison to other top-ranked online criminal justice master’s programs in the U.S.

   A review of applicant personal statements indicates that 79% of current students are practitioner-oriented individuals who are seeking employment or advancement within the field of criminal justice. Specifically, 44% are pursuing promotion to a position of leadership or advancement to a more desirable position, such as a federal probation officer, or project manager. Further, 35% are interested in criminal justice related employment upon graduation. Conversely, only 16% of current students are working toward research and teaching positions; 9% plan to pursue a Ph.D., and 7% are interested in undergraduate teaching.

   Data on graduates was obtained from a LinkedIn name search of all 163 graduates of the M.S. online program since inception. Of those, 77 (47%) were located. Information regarding occupational focus and level of management indicate that 47% percent of graduates hold a leadership or management position, 40% are line employees, 5% are either pursuing a Ph.D. or teaching criminal justice classes and the remaining 8% are crime analysts.
In terms of their occupation focus within the field of criminal justice, there are a wide range of concentrations, with the greatest percentage (25%) employed in private security, followed by policing (17%), and non-criminal justice employment (14%).

The second part of the review consisted of examining competitor university offerings and requirements. Data were collected from the U.S. News and World Reports (USN&WR) 2020 Best Online Master’s in Criminal Justice Programs publication. The top ten schools and the two closest in geographical proximity (Bowling Green and Wayne State University) were compared in terms of required number of classes for degree completion, topical areas of classes offered, and opportunities for specialization. These data provide several noteworthy findings. The number of required core courses is consistent with the current SCJ requirement of five courses plus the capstone class. The mean and median required number of courses for competitor programs is five and the mode is four. In addition, all programs have a capstone requirement. Further, all schools in the analysis offer a general master’s degree, while 11 of the 12 also offer a criminology degree, 9 of the 12 offer a criminal justice administration degree and 7 offer a policing focus.

The purpose of this request is to decouple it from our on-campus M.S. in criminal justice offering, while maintaining the high quality online program that people have come to expect.

b. Academic Programs Catalog Text:

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

Admission

While a criminal justice undergraduate major comparable to that offered by this school is not required for admission to the Master of Arts degree program, the applicant must have a background of education and occupational experience appropriate to the successful pursuit of graduate work. Occupational experience is highly desirable before undertaking graduate study in some fields of criminal justice.

All applicants must have at least 12 credits of undergraduate course work in political science, economics, sociology, psychology, anthropology, history, social work, or any combination thereof. At least 6 of these credits must be in sociology, psychology, social work, or any combination of such courses.

Regular Status

To be considered for admission to the Master of Arts degree in Criminal Justice, an applicant must:

1. submit a personal statement regarding their academic and professional goals.
2. submit scores from a GRE general exam taken within the last five years. The GRE exam is waived for candidates with a cumulative undergraduate grade-point average of 3.2 or higher from an accredited and recognized institution, and for applicants with a completed graduate degree.

Applicants insufficiently prepared for graduate study in criminal justice may have to complete collateral course work or pursue individualized study to satisfy deficiencies. Collateral course work does not count towards degree requirements.

Requirements for the Master of Arts Degree in Criminal Justice

The program is available under Plan B (without thesis) and online only. The student must complete a total of 30 credits distributed as follows:

| CREDITS |
|---------------------------------
| C J  8 0 1  Crime Causation, Prevention and Control | 3 |
| C J  8 1 0  Proseminar in Criminal Justice | 3 |
| C J  8 1 2  Criminal Justice Management Seminar | 3 |
| C J  8 5 7  Criminal Justice Behavior and Ethics | 3 |
| C J  8 8 9  Fundamentals of Basic and Translational Research | 3 |
| C J  8 9 6  Policy Analysis under Conditions of Change | 3 |

2. Complete 6 credits of 800-level criminal justice electives.
3. Complete 6 credits of electives approved by the student’s academic advisor.
2. Change the requirements for the Master of International Planning Studies degree in International Planning Studies in the School of Planning, Design and Construction. The University Committee on Graduate Studies (UCGS) approved this request at its April 12, 2021 meeting.

a. Under the heading Requirements for the Master of International Planning Studies Degree replace the entire entry with the following:

   The program is available only online under Plan B (without thesis). The student must complete at least 30 credits as specified below.

   **CREDITS**

   The student must

   1. Complete the following core courses (11 credits):
      
      | Course Code | Course Title                             | Credits |
      |-------------|------------------------------------------|---------|
      | UP 801      | Concepts and Issues in Planning and Development | 4       |
      | UP 844      | Planning Theory and Ethics               | 3       |
      | UP 894      | Planning Practicum                       | 4       |

   2. Complete one of the following courses (4 credits):
      
      | Course Code | Course Title                             | Credits |
      |-------------|------------------------------------------|---------|
      | UP 890      | Independent Study                        | 4       |
      | UP 893      | Internship in Urban Planning             | 4       |

   3. Complete a minimum of 15 elective credits approved by the student’s academic advisor.

   4. Complete a final evaluation.

   Effective Fall 2021.
PART II - NEW COURSES

DEPARTMENT OF COUNSELING, EDUCATIONAL PSYCHOLOGY AND SPECIAL EDUCATION

CEP 865 Foundations of Forensic Rehabilitation
Spring of even years. 3(3-0) RB: Prior academic or professional work in rehabilitation counseling, litigation, insurance claims, or disability determination. R: Open to master's students in the Rehabilitation Counseling Major and open to doctoral students in the Rehabilitation Counselor Education Major or approval of department.
- Roles and functions of forensic rehabilitation professionals, vocational opinions, knowledge and skills analysis, instrument utilization, legal issues related to catastrophic injury, loss of earnings capacity, ethical standards, rules of evidence, and common situations in the litigation process.
- Effective Fall 2021

CEP 891C Special Topics in Rehabilitation Counseling
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. RB: Prior academic or professional work in rehabilitation counseling, or related field of academic study or applicable professional work. R: Open to graduate students.
- Various topics in rehabilitation counseling.
- Effective Fall 2021

DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES

GLG 871 Introduction to Seismology
Fall of odd years. 3(3-0) RB: Introductory mathematics, including calculus and multivariable calculus; introductory physics, including classical mechanics and optics; introductory geology.
- Stress and strain, elastic wave propagation in layered media, earthquake mechanism, and semi-quantitative understanding of common seismic methods for studying the Earth’s interior.
- Effective Fall 2021

GLG 875 Modern Geodesy and Applications
Fall of even years. 3(3-0) RB: Introductory mathematics, including calculus and multivariable calculus; experience with linear algebra recommended; introductory physics, including classical mechanics and optics; introductory geology.
- Modern geodetic methods including the Global Positioning System, measuring steady or time-variable motions, the physical models that are used to interpret these observations, and applications to active geological processes, the cryosphere, and hydrology.
- Effective Fall 2022

DEPARTMENT OF EDUCATIONAL ADMINISTRATION

EAD 932 Education Policy Implementation
Fall of every year. 3(3-0) Interdepartmental with Political Science.
- Process and politics of policy implementation in education.
- Effective Fall 2021

EAD 933 Evaluation of Education Policy Implementation
Spring of every year. 3(3-0) Interdepartmental with Political Science.
- Methodological tools for evaluating policy design and implementation.
- Effective Fall 2021
DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION

FSC 423  Functional Foods and Human Health
Spring of even years. 3(3-0) P: (HNF 150 or (HNF 311 or concurrently)) and (MMG 205 or MMG 301 or FSC 342) and ((BMB 200 or concurrently) or (BMB 401 or concurrently))
REINSTATED
Effective Fall 2021

FSC 854  Global Regulation of Food Contact Substances and Packaging
Spring of odd years. 3(3-0) RB: Prior coursework or equivalent professional experience in food safety, food law, or food science
Regulation of food contact substances (FCSs) and materials (FCMs); FCS/FCM scientific and health issues related to regulation; Codex Alimentarius; regulations in the U.S. and around the globe; future regulatory developments in plastics and packaging.
Effective Fall 2021

HNF 844  Management and Professional Skills in Dietetics
Fall of every year. 3(3-0) RB: Completion of a practicum in dietetics after undergraduate dietetic and nutrition courses. R: Open to master’s students in the Nutrition and Dietetics Major or approval of department.
Dietetic career skills including collaboration, communication, human resources, budgeting, goal setting, and team productivity.
Effective Fall 2021

DEPARTMENT OF KINESIOLOGY

KIN 901  Grant Writing in Kinesiology
Spring of even years. 3(3-0) R: Open to graduate students in the Department of Kinesiology or approval of department.
Preparing and writing successful federal and foundational grant applications in Kinesiology.
Effective Fall 2021

KIN 921  Biopsychosocial Aspects of Athletic Injury
Fall of odd years. 3(3-0) R: Open to graduate students in the Department of Kinesiology or approval of department.
Biopsychosocial approach to treating patients experiencing athletic injury and undergoing rehabilitation. Application and synthesis of biopsychosocial theories and biopsychosocial therapeutic interventions into athletic injury research and clinical practice.
Effective Fall 2021

KIN 922  Assessment Methods for Physically Active Pathological Populations
Spring of even years. 3(3-0) R: Open to graduate students in the Department of Kinesiology or approval of department.
Theoretical basis and measurement techniques commonly utilized in clinical research to assess physically active pathologic populations. Development of analytical skills needed to capture and analyze outcome measures related to human movement, clinical imaging, and muscle function.
Effective Fall 2021

KIN 923  Translation of Research Evidence
Fall of even years. 3(3-0) R: Open to graduate students in the Department of Kinesiology or approval of department.
Critical evaluation of research evidence, clinical translation, and effective dissemination of evidence in sports medicine.
Effective Fall 2021
MSU COLLEGE OF LAW

LAW 511B Employment Discrimination Law
Spring of every year. 2 to 4 credits. R: Open to students in the MSU College of Law.
REINSTATEMENT Development of individual employee rights, including at-will employees as well as protected employees under NLRA and FLSA.
SA: DCL 330
Effective Spring 2022

LAW 533S Cyber Law/Network Regulations
Spring of every year. 2 to 4 credits. R: Open to students in the MSU College of Law.
REINSTATEMENT Legal policy issues arising from the Internet, with an emphasis on (1) impact on traditional legal causes of action; (2) government regulation; (3) international aspects and the interplay among United States and foreign jurisdictions.
SA: DCL 330
Effective Spring 2022

LAW 541C Elder Law
Spring of every year. 2 to 4 credits. R: Open to students in the MSU College of Law.
REINSTATEMENT Legal needs of elder clients and their families.
SA: DCL 510
Effective Fall 2021

LAW 558A Bioethics and the Law
Spring of every year. 2 to 4 credits. R: Open to students in the MSU College of Law.
REINSTATEMENT Legal, ethical, and economic problems generated by biomedical technologies.
SA: DCL 339
Effective Fall 2021

LAW 635A Advanced Topics in American Indian Law
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. P: LAW 635B R: Open to students in the MSU College of Law.
REINSTATEMENT Current legal issues of federal and American Indian law.
SA: DCL 563
Effective Fall 2021

COLLEGE OF NATURAL SCIENCE

NSC 844 Tools for Women in STEM
Spring of every year. 2(2-0) R: Open to graduate students in the College of Engineering or College of Natural Science. Approval of college.
Directed at graduate students that identify as female considering a career in STEM.
Practical tools helpful to students that identify as women in advancing their goals and mitigating the challenges they may encounter.
Effective Spring 2021

DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 333 Writing in Corporate Contexts
Spring of every year. Summer of every year. 3(3-0) P: WRA 202 or concurrently RB: Completion of Tier I Writing Requirement
Rhetorical and cultural dimensions of corporate writing. Practice in messaging across corporate contexts and composing for professional and consumer audiences.
Effective Spring 2022

WRA 335 Writing in Scientific Contexts
Spring of every year. Summer of every year. 3(3-0) P: WRA 202 or concurrently RB: Completion of Tier I Writing Requirement
Rhetorical and cultural dimensions of medical and scientific writing. Study of and practice with rhetorical affordances and expectations in scientific contexts.
Effective Spring 2022
WRA 337  Writing and Public Policy
Fall of every year. Summer of every year. 3(3-0) A student may earn a maximum of 3 credits in all enrollments for this course. P: WRA 202 or concurrently RB: Completion of Tier I Writing Requirement R: Open to undergraduate students.
Rhetorical and cultural dimensions of composing in public and civic spaces. Study of and practice with policy research, analysis, evaluation, narration, advocacy, and argumentation.
Effective Spring 2022
PART III – COURSE CHANGES

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

BMB 461 Advanced Biochemistry I
Fall of every year. Spring of every year. 3(3-0) P: (CEM 251 or CEM 351) and (CEM 252 or CEM 352) and (MTH 124 or MTH 132 or MTH 152H or LB 118) and (BS 161 or BS 181H or LB 145) and ((BS 162 or concurrently) or (BS 182H or concurrently) or (LB 144 or concurrently)) P: (CEM 251 or CEM 351 or LB 271) and (CEM 252 or CEM 352) and (MTH 124 or MTH 132 or MTH 152H or LB 118) and (BS 161 or BS 181H or LB 145) and ((BS 162 or concurrently) or (BS 182H or concurrently) or (LB 144 or concurrently)) Not open to students with credit in BMB 401.
Structure, function, and biophysical properties of biomolecules in a wide variety of organisms. Emphasis on proteins and carbohydrates including enzyme catalysis and kinetics, the central metabolic pathways, and photosynthesis.
SA: BCH 461
Effective Summer 2014 Effective Summer 2022

BMB 864 Plant Specialized Metabolism
Biotechnology and Plant Biochemistry
Spring of every year. Spring of even years. 3(3-0) Interdepartmental with Plant Biology. P: BMB 461 or BMB 462 or (PLB 866 or concurrently) RB: Enrolled in a graduate program related to plant molecular sciences, RB: Interest in applied biotech, basic knowledge in molecular bio, genomics, or biochemistry.
BMB 801 or  BMB 961
Specialized metabolism unique to photosynthetic organisms including aspects of nitrogen and sulfate assimilation and essential amino acid synthesis relevant to specialized metabolism, vitamin synthesis, mono-, di-, tri- and tetra-terpenoid synthesis, synthesis of phenylpropanoids and other aromatic compounds and synthesis of various alkaloids. Biotechnological applications of plant biochemistry. Development of concepts and ideas that may have the potential for commercialization.
SA: BCH 864
Effective Summer 2018 Effective Summer 2022

DEPARTMENT OF BIOSYSTEMS AND AGRICULTURAL ENGINEERING

AE 182 Electrical Wiring II
Spring of every year. 2(4-3) 3(2-3) RB: AE 172 R: Open to students in the Institute of Agricultural Technology.
Installation of electrical circuits for residential, light commercial and agricultural installations. Offered first ten weeks of semester.
SA: AE 082
Effective Summer 2015 Effective Summer 2022

DEPARTMENT OF COMMUNICATION

COM 340 Leadership and Group Communication
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: (COM 300 or concurrently) or MKT 313 R: Open to sophomores or juniors or seniors in the Communication Major or in the Sales Leadership Minor. R: Open to sophomores or juniors or seniors in the Communication Major or in the Sales Leadership Minor or in the Broadcast Journalism Minor or in the Communication Leadership and Strategy major.
Theory and research on dyadic and group relations within organizations. Leadership, motivation, decision making, and teamwork.
Effective Fall 2018 Effective Fall 2021
DEPARTMENT OF COUNSELING, EDUCATIONAL PSYCHOLOGY AND SPECIAL EDUCATION

CEP 240  Diverse Learners in Multicultural Perspective
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to undergraduate students in the Department of Communicative Sciences and Disorders or in the Kinesiology major or in the Special Education-Learning Disabilities major and open to undergraduate students in the Child Development major. R: Open to undergraduate students in the Department of Communicative Sciences and Disorders or in the Kinesiology major or in the Special Education-Learning Disabilities Major and open to undergraduate students in the Education Major or in the Child Development Major or in the Elementary Teacher Certification Program (Admitted) or in Secondary Teacher Certification Program (Admitted).
Communicative, linguistic, physical, sensory, behavioral, affective, and cognitive differences in learning in multicultural classrooms. Factors that mediate access to knowledge.
Effective Spring 2014  Effective Fall 2021

CEP 301  Literacy Instruction for Students With Mild Impairments (W)
Spring of every year. 3(3-1) P: Completion of Tier I Writing Requirement P: (CEP 449) and completion of Tier I writing requirement R: Open to juniors or seniors in the Special Education-Learning Disabilities Major and open to graduate students in the Special Education Major. C: TE 301 concurrently.
Reading and writing instruction for struggling learners. Characteristics of literacy problems in students with mild impairments. Adaptation for teaching reading and writing.
Effective Spring 2014  Effective Summer 2022

CEP 452  Assistive Technology for Students with Disabilities
Fall of every year. 3(3-0) P: CEP 240 P: CEP 240 and CEP 451 R: Open to students in the Special Education-Learning Disabilities Major.
Assistive technology for advancing educational outcomes in PK-12 students with disabilities; applications of technology to compensate for disabilities and improve educational, social, and behavioral competences.
Effective Fall 2020  Effective Fall 2021

CEP 921  Psychometric Theory I
Spring of every year. 3(3-0) P: CEP 920 and CEP 933 P: CEP 933 RB: Experience using a statistical package.
Theory-oriented introduction to psychometrics and the measurement of educational and psychological traits. Measurement, scaling, validity, true score test theory, measurement error, reliability, generalizability theory, item response theory, measurement bias, and factor analysis.
Effective Spring 2015  Effective Fall 2021

CEP 944C  Clinical Practice Practicum in Rehabilitation Counseling
Summer of every year. 6(3-12) 1 to 6 credits. R: Open to doctoral students in the Rehabilitation Counselor Education Major.
Supervised counseling experience in human services, rehabilitation or educational settings to further develop skills, knowledge, and behaviors appropriate for professional counseling practice.
Effective Summer 2019  Effective Fall 2021

COLLEGE OF HUMAN MEDICINE

HM 639  Northern Wilderness, Emergency and Sports Medicine
Fall of every year. Spring of every year. Summer of every year. 6 credits. R: Open to students in the College of Human Medicine. Approval of college.
Development of knowledge, skills and attitudes to address the needs of patients outside of the hospital with wilderness or sports related injuries.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Summer 2013  Effective Summer 2021
SCHOOL OF HUMAN RESOURCES AND LABOR RELATIONS

HRLR 493 Internship in Human Capital and Society
Fall of every year. Spring of every year. Summer of every year. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: HRLR 201 R: Open to undergraduate students in the College of Social Science or approval of school. Not open to students with credit in SSC 493.
Faculty-guided internship in field related to human capital & society
Request the use of the Pass-No Grade (P-N) system.
Effective Summer 2021

COLLEGE OF NATURAL SCIENCE

BS 172 Organismal and Population Biology Laboratory
Fall of every year. Spring of every year. Summer of every year. 2(1-3) Interdepartmental with Integrative Biology and Plant Biology. Interdepartmental with Plant Biology P: (BS 162 or concurrently) or (BS 182H or concurrently) Not open to students with credit in BS 192H or LB 144.
Nature and process of organismal biology including experimental design, statistical methods, hypothesis testing in genetics, ecology, and evolution.
SA: BS 110, BS 158H
Effective Fall 2016 Effective Summer 2022

BS 182H Honors Organismal and Population Biology
Fall of every year. 3(3-0) Interdepartmental with Integrative Biology and Lyman Briggs and Plant Biology. Interdepartmental with Plant Biology Not open to students with credit in LB 144.
Diversity and basic properties of organisms, with emphasis on genetic principles, ecological interactions, and the evolutionary process. Historical approach to knowledge discovery.
SA: BS 148H, BS 110
Effective Summer 2017 Effective Summer 2022

BS 192H Honors Organismal and Population Biology Laboratory
Fall of every year. 2(1-3) Interdepartmental with Integrative Biology and Lyman Briggs and Plant Biology. Interdepartmental with Plant Biology P: BS 182H or concurrently Not open to students with credit in LB 144.
Nature and process of organismal biology, including experimental design and statistical methods, hypothesis testing, genetics, ecology, and evolution.
SA: BS 158H, BS 110
Effective Summer 2017 Effective Summer 2022

DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 341 Nature and Environmental Writing
Fall of even years. 3(3-0) Interdepartmental with Fisheries and Wildlife. P: Completion of Tier I Writing Requirement R: Open to undergraduate students in the Department of Forestry or in the Professional Writing major or in the Fisheries and Wildlife major or approval of department.
Place-based writing that engages the environmental imagination, shaped by the variety of human relationships with place.
SA: AL 341
DELETE COURSE
Effective Spring 2021