MICHIGAN STATE UNIVERSITY

Report of

THE UNIVERSITY COMMITTEE ON CURRICULUM

to the Faculty Senate

April 14, 2020

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

MICHIGAN STATE UNIVERSITY
University Committee on Curriculum

April 14, 2020

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.

[1]One 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

April 14, 2020

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 ARTS AND LETTERS

1. Change the requirements for the **Graduate Certificate** in **Museum Studies** the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

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

      (1) Change the total credits from '15' to '12'.

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

MUSM	893	Museum Internship	3

      (3) Change item 2. to 'A minimum of two of the following courses as approved by the Museum Studies advisor', and delete the following course:

MUSM	897	Practicum in Museum Studies	1 to 3

      (4) Add the following item 3.:

      One of the following courses (3 credits):

MUSM	893	Museum Internship	3
MUSM	897	Practicum in Museum Studies	3

   Effective Fall 2020.

ELI BROAD COLLEGE OF BUSINESS

1. Change the requirements for the **Minor in Information Technology** in the Eli Broad College of Business.

   a. Under the heading **Admission**, in the first paragraph, replace the last sentence with the following:

      Applicants must have completed (a) Computer Science and Engineering 102 or 201 or 231 and (b) Mathematics 124 or 132.

   b. Under the heading **Requirements for the Minor in Information Technology** make the following changes:

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

CSE	201	Fundamentals of Information Technology	3

(2) Renumber item 2. to item 3. and add the following item 2.:

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

CSE	102	Algorithmic Thinking and Programming	3
CSE	201	Fundamentals of Information Technology	3

Effective Fall 2020.

2. Change the requirements for the **Minor** in **Insurance and Risk Management** in the Department of Finance. The University Committee on Undergraduate Education (UCUE) approved this request at its March 12, 2020 meeting.

a. Under the heading **Admission** change 'with a grade-point average of 3.0' to 'with a grade of 3.0'.

b. Under the heading **Admission** add the following second paragraph:

Students must provide a completed online application, including a statement of purpose and resume. The online application must be completed by March 15th. Admission decisions are made in late spring each year. Admission is highly competitive and therefore not guaranteed. By applying to the minor, you give consent to the selection committee to review your grades.

Effective Summer 2020.

COLLEGE OF COMMUNICATION ARTS AND SCIENCES

1. Change the requirements for the Linked **Bachelor of Arts Degree in Journalism** and **Master of Arts Degree in Journalism** in the School of Journalism. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

Per University policy:

A candidate for a Linked Bachelor's-Master's Degree from Michigan State University may request the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

a. Under the heading ***LINKED BACHELOR'S-MASTER'S DEGREE IN JOURNALISM Bachelor of Arts Degree in Journalism, Master of Arts Degree in Journalism*** replace the entire entry with the following:

The department welcomes applications from Michigan State University undergraduates majoring in Journalism with at least 70 credits. Application for admission must be made prior to the final semester as a Journalism undergraduate major. Admission to the program requires the following: a minimum cumulative grade-point average of 3.5 based on all courses taken at MSU, a statement of goals for the master's degree, a statement of the applicant's background, at least two letters of recommendation from MSU faculty, and an approved program of study for the master's degree at the time of admission. Applicants must have already completed JRN 108, 200, 203, 300, 325, and 430 with a cumulative grade-point average of 3.0 in these courses. Admission to the Linked Bachelor's-Master's program allows the application of up to 9 credits toward the master's program for qualifying 400-level and above course work taken at Michigan State University. No 400-level courses with a grade lower than 3.0 will count toward the master's degree. Credit obtained from 400-level pass/fail courses and internships will not count toward the degree. Students admitted to the program must complete all of the requirements for either Plan A (with thesis) or Plan B (without thesis) in the master's degree.

Effective Fall 2020.

2. Change the requirements for the **Master of Arts** degree in **Journalism** in the School of Journalism. The University Committee on Graduate Studies (UCGS) approved this request on March 9, 2020.

The concentrations in the Master of Arts degree in Journalism are noted on the student's academic record when the requirements for the degree have been completed.

a. Under the heading **Admission** delete item 3.:

Scores on the General Test of the Graduate Record Examination (GRE).

b. Under the heading **Requirements for the Master of Arts Degree in Journalism** replace the entire entry with the following:

A minimum of 31 credits is required for the master's degree in journalism under either Plan A or Plan B.

Requirements for Both Plan A and Plan B

All of the following courses (10 credits):

JRN	802	Journalism ProSeminar	1
JRN	804	Journalism Studies Seminar	3
JRN	805	Disruptions in Journalism	3
JRN	806	Contemporary Issues in Journalism	3

Additional Requirements for Plan A

1. All of the following courses (12 credits):

JRN	803	Introduction to Quantitative Research Methods	3
JRN	816	Applied Research Methods in Journalism	3
JRN	899	Master's Thesis Research	6

2. Complete 9 additional credits of elective course work approve by a program plan committee which may include a 9-credit concentration in *Environmental, Science, and Health Journalism* or *International Journalism*.

Additional Requirements for Plan B

1.

JRN	800	Multiple Media Reporting I	3
JRN	801	Multiple Media Reporting II	3
JRN	896	Journalism Professional Project	6

2. Complete 9 additional credits of elective course work approve by a program plan committee which may include a 9-credit concentration in *Environmental, Science, and Health Journalism* or *International Journalism*.

Effective Fall 2020.

3. Change the requirements for the **Graduate Certificate** in **Journalism** in the School of Journalism. The University Committee on Graduate Studies (UCGS) approved this request on March 9, 2020.

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

All of the following courses (10 credits):

JRN	802	Journalism ProSeminar	1
JRN	804	Journalism Studies Seminar	3
JRN	805	Disruptions in Journalism	3
JRN	806	Contemporary Issues in Journalism	3

Effective Fall 2020.

4. Change the requirements for the **Minor in Documentary Production** in the Department of Media and Information.

a. Under the heading **Minor in Documentary Production** make the following changes:

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

MI	211	Documentary History and Theory	3

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

WRA	425	Advanced Multimedia Writing	3

Under **Web** delete the following course:

JRN	400	Spartan Digital Newsroom	3

(3) Replace item 3. With the following:

The following capstone courses (6 credits):

MI	411A	Advanced Documentary Filmmaking I (W)	3
MI	411B	Advanced Documentary Filmmaking II (W)	3

Effective Fall 2020.

COLLEGE OF EDUCATION

1. Change the requirements for the **Bachelor of Arts** degree in **Special Education** in the Department of Counseling, Educational Psychology and Special Education. The Teacher Education Council (TEC) approved this request at its March 2, 2020 meeting.

The concentrations in the Bachelor of Arts degree in Special Education 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 Arts Degree in Special Education** replace the entire entry with the following:

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Special Education.

The completion of Mathematics 201 referenced in item 2. b. below may also satisfy the University mathematics requirement.

The University's Tier II writing requirement for the Special Education major is met by completing Counseling, Educational Psychology and Special Education 301. That course is referenced in item 2. d. below.

CREDITS

a. **Professional Education Courses** (19 credits)

(1) All of the following courses (19 credits):

CEP	240	Diverse Learners in Multicultural Perspectives	3
TE	101	Social Foundations of Justice and Equity in Education	3
TE	102	Pedagogy and Politics of Justice and Equity in Education	3
TE	150	Reflections on Learning	3
TE	341	Teaching and Learning of (Bi) Multilingual Learners	3
TE	371	Justice and Equity Seminar I	1
TE	372	Justice and Equity Seminar II	1

	TE	471	Justice and Equity Seminar III	1
	TE	472	Justice and Equity Seminar IV	1

b. **Elementary Education Courses** (25 or 26 credits)

(1) All of the following courses (10 credits):

TE	100	Introduction to Early Childhood and Elementary Education	1
TE	333	Social Studies for Young Learners (PK-6)	3
TE	403	Teaching of Science to Diverse Learners - Elementary	3
TE	404	Teaching of Social Studies to Diverse Learners – Elementary	3

(2) One of the following language acquisition and development courses (3 or 4 credits):

LIN	200	Introduction to Language	3
LIN	401	Introduction to Linguistics	4

(3) Both of the following literacy courses (6 credits):

TE	301	Children's Literacy Development (W)	3
TE	348	Reading and Responding to Children's Literature	3

(4) Both of the following mathematics courses (6 credits):

MTH	201	Elementary Mathematics for Teachers I	3
MTH	202	Elementary Mathematics for Teachers II	3

The completion of Mathematics 201 may also satisfy the university mathematics requirements. Mathematics 201 and 202 are prerequisites for Teacher Education 406 or Teacher Education 406A and must be completed with a minimum grade of 2.0 prior to enrollment in Teacher Education 406 or Teacher Education 406A.

c. One of the following two grade band concentrations (21 to 29 credits):

Prekindergarten through Grade Three (29 credits)

All of the following courses (29 credits):

HDFS	320	Interaction with Children in Groups	3
HDFS	320L	Interaction with Children – Laboratory	1
HDFS	321	Curriculum for Children (W)	3
HDFS	321L	Curriculum for Children – Laboratory	1
HDFS	424	Student Teaching in an Early Childhood Program	6
TE	330	Science Curriculum for Young Learners (PK-3)	3
TE	405A	Teaching Literacy to Diverse Learners I – PK-3	3
TE	405B	Teaching Literacy to Diverse Learners II – PK-3	3
TE	406A	Teaching Mathematics to Diverse Learners I – PK-3	3
TE	406B	Teaching Mathematics to Diverse Learners II – PK-3	3

Grade Three through Grade Six (21 or 22 credits)

(1) One of the following ethnic studies courses (3 or 4 credits):

AAAS	100	Race and Community in Local to Global Perspective	3
AIIS	201	Introduction to the American Indian and Indigenous Studies	3
CLS	201	Introduction to Chicano/Latino Studies	3
HST	208	Introduction to African History, Culture and Society	4
HST	210	Modern East Asia	4
HST	309	American Indian History: Precontact to the Present	3
HST	310	African American History to 1876	3

	HST	311	African American History since 1876	3
	HST	312	African American Women	3
	HST	327	History of Mexican Americans in the United States	3
	HST	365	The Vietnam War	3
	HST	366	Modern Southeast Asia	3
	HST	371	Women and Gender in Asia	3
	HST	383	The Caribbean	3
	HST	384	Modern Mexico	3
	PLS	304	Minority Politics	3
	PLS	351	African Politics	3
	SOC	214	Social Inequality	3
	SOC	215	Race and Ethnicity	3
	SOC	375	Urban Sociology	3
	SSC	293	Introduction to Asian Pacific American Studies	3
	TE	352	Immigrant Language and Culture	3

(2) One of the following United States history courses (3 credits):

	HST	301	Indigenous-European Encounters in North America	3
	HST	302	Revolutionary America	3

(3) One of the following arts integration courses (3 credits):

	TE	430	Introduction to Arts in the Classroom	3
	TE	431	Learning through Drama	3
	TE	432	Learning through Movement	3

(4) All of the following courses (12 credits):

	ISE	301	Science for Elementary Schools	3
	TE	332	Science Curriculum for Upper Elementary Learners (3-6)	3
	TE	405	Teaching Language and Literacy to Diverse Learners (3-6)	3
	TE	406	Teaching Mathematics to Diverse Learners (3-6)	3

d. **Learning Disabilities Area of Emphasis** (19 credits)

(1) All of the following courses:

	CEP	301	Literacy Instruction for Students with Mild Impairments (W)	3
	CEP	345	Language and Literacy Development and Disorders	3
	CEP	449	Behavior Management in Special Education	3
	CEP	451	Models of Special Education Administration and Services	3
	CEP	452	Assistive Technology for Students with Disabilities	3
	PSY	101	Introductory Psychology	4

e. **Optional Additional Teaching Endorsements**

Students may elect to complete one or more optional disciplinary teaching minor(s), in addition to the required grade band concentration and Learning Disabilities Area of Emphasis. The following teaching minors are available for prospective elementary school teachers.

Arabic	20
Chinese	24
French	21
German	23
Japanese	24
Spanish	24

For requirements for the disciplinary teaching minors, refer to the section *Requirements for the Disciplinary Teaching Minors* in the section on TEACHER CERTIFICATION below.

Students wishing to complete one or more of the following optional disciplinary teaching majors, in addition to the grade band concentration and English as a Second Language requirements, should refer to **Teacher Certification Options** in the catalog sections for the colleges, departments and schools that administer disciplinary majors that are available for teacher certification.

College of Arts and Letters
- Arabic
- Chinese
- French
- German
- Japanese
- Spanish

COLLEGE OF HUMAN MEDICINE

1. Establish a **Graduate Certificate** in **Human Medicine Research** in the College of Human Medicine. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its January 13, 2020 meeting.

The Graduate Certificate in Human Medicine Research is a Type 2 graduate certificate and will appear on the transcript as "Graduate Certificate Program in Human Medicine Research".

a. **Background Information**:

The Human Medicine Research certificate program idea was conceived from internal observations that certain College of Human Medicine students had a high-level of interest in research and warranted an intensive, longitudinal research experience that delivered high impact research outcomes. At the same time, the college was hearing from faculty who were looking for medical students who had a true interest in research for long-term collaboration on their projects.

A large number of medical schools in the United States have formal research training programs akin to the proposed certificate. Many of these programs are transcriptable as an M.D. degree with Research “Distinction” (University of Iowa, Robert Wood Johnson, UT Southwestern, Rosalind Franklin and others are some examples), or are organized as a Research “Track” (Emory, UC Denver). Others require a year off (University of Rochester, UCSF), are limited to certain years only (4th year students at the University of Arizona) or have specific areas of focus (medical education scholars at Georgetown). Each of the programs have similarities and differences to the Human Medicine Research certificate.

The College of Human Medicine at Michigan State University has a vibrant research climate with students involved in research in almost all clinical areas as well as basic sciences, public health, epidemiology, bioinformatics/computational and medical education research. Students are involved in research in each of our seven campuses working with multiple community partners, forming a uniquely diverse and collaborative research environment. What is lacking is a formal, research-intensive program targeted to students with a true interest in research, and who are likely to continue research beyond medical school. This program is designed to identify students who are genuinely interested in research and to train and inspire them to become independent researchers.

The College of Human Medicine Office of Research currently provides support to medical students seeking research or conducting research. The office provides numerous services, including helping students find research projects, miscellaneous research tasks, and research funding. It also fosters collaboration between MSU and our community partners, including health systems, hospitals and medical clinics.

Students will obtain knowledge in research ethics, research oversight and regulatory aspects, scientific background of individual projects, biostatistics, and funding resources while obtaining skills in the development of a research question, conducting a literature search, designing and

preparation of a study protocol, study-specific research methodology, data collection, data analysis, interpreting and discussing results, dissemination of research findings, and finding and applying for research funding.

b. **Academic Programs Catalog Text**:

The Graduate Certificate in Human Medicine Research trains students to possess a special set of knowledge, skills and abilities enabling them to become productive researchers during medical school. Students will engage in rigorous, long-term research experience resulting in high-impact outcomes, positioning them for admittance to research-intensive residency programs and competitiveness for future research funding. The graduate certificate is available to students currently enrolled in the Professional Program in Human Medicine leading to the Doctor of Medicine degree.

Admission

To be considered for admission to the Graduate Certificate in Human Medicine Research, an applicant must:
1. Be enrolled in the Professional Program in Human Medicine leading to the Doctor of Medicine degree.
2. Submit a university application.

Students will be chosen for the certificate program through a process outlined and managed by the Research Certificate Selection Committee.

Requirements for the Graduate Certificate in Human Medicine Research

CREDITS

The student must:
1. Complete 20 hours of Research Online Modules/Quizzes
2. Complete 80 hours of Introduction to Biostatistics Intersession through enrollment in HM 553, HM 554, or HM 556 during their professional program requirements.
3. Attend five enrichment activities as directed by the program director.
4. Complete 6 to 10 weeks of full-time research activities or its equivalent.
   a. Presentation at a regional or national conference is required.
   b. Manuscript for publication will be submitted to certificate advisory committee, however publishing of manuscript is not required due to time constraints.
5. Complete 40 hours of research community involvement as approved by the program director.
6. Complete 12 credits of HM 691 Research Clerkship.

Effective Summer 2020.

COLLEGE OF LAW

1. Change the requirements for the **Juris Doctor** degree in the Michigan State University College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

   a. Under the heading **Juris Doctor** make the following changes:

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

      LAW 530U First-Year Advanced Topics and Skills 2

      (2) In item 2., change the credits of LAW 530D, LAW 530E, LAW 530N, and LAW 530Q from ‘2’ to ‘3’.

      (3) In item 3., change the credits of LAW 501A from ‘2’ to ‘2 to 4’.

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

LAW 550 Conflict of Laws 3

Add the following course:

LAW 550A Topics in Conflict of Laws 3

(5) In the **Indigenous Law** concentration, make the following changes:

(a) In item (1), delete the following course:

LAW 635C State, Tribal, and Local Taxation 2

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

LAW 550 Conflict of Laws 3

Add the following course:

LAW 550A Topics in Conflict of Laws 3

Effective Fall 2020.

2. Change the requirements for the Master of Jurisprudence (M.J.) degree in **Legal Doctrine Analysis** in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

a. Under the heading **M.J. in Legal Doctrine Analysis** make the following changes under Academic Requirements:

(1) Change the credits of LAW 530D, LAW 530E, LAW 530N, and LAW 530Q from '2' to '3'.

Effective Fall 2020.

COLLEGE OF MUSIC

1. Change the requirements for the **Master of Music** degree in **Collaborative Piano** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Replace item 6. with the following:

Perform three collaborative recitals under the guidance of the student's applied music instructor and approved by a committee from the piano area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

(2) Add the following item 7.:

Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the piano area, and a faculty member from either the music theory or musicology area.

(3) Add the following **Academic Standards** statement:

A grade of 3.0 or higher is required for Music 896.

Effective Fall 2020.

2. Change the requirements for the **Doctor of Musical Arts** in **Collaborative Piano** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

a. Under the heading **Guidance Committee** replace the paragraph with the following:

The student's guidance committee, which must be formed during the first year of graduate study, must consist of the Director of Collaborative Piano, who serves as its chairperson, a second faculty member from the piano area, one faculty member from the area of musicology, and one faculty member from the area of music theory. In instances where additional expertise would be beneficial it is recommended that the guidance committee include a faculty member from within or outside the College of Music.

b. Under the heading **Requirements for the Doctor of Musical Arts Degree in Collaborative Piano** make the following changes:

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

MUS	841	Seminar in Advanced Collaborative Piano Techniques	4

Add the following course:

MUS	891	Special Topics (Doctoral Seminar in Advanced Collaborative Piano Techniques)	4

(2) In item 3. c. replace the note with the following:

Courses completed at another university or passing the appropriate MSU departmental placement examination may be used to satisfy this requirement.

(3) Replace item 5. b. with the following:

Perform five public collaborative recitals that have been approved by a committee of faculty from the student's piano area, two of which must be presented within two consecutive semesters, excluding summers. Two of the recitals must be instrumental recitals; two of the recitals must be vocal recitals. The fifth recital may be either an instrumental or vocal recital. A recording of each of the five recitals must be submitted to the Office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

Effective Fall 2020.

3. Change the requirements for the **Master of Music** degree in **Jazz Studies** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Replace item 6. with the following:

Perform a recital under the guidance of the student's applied music instructor and approved by a committee from the jazz area. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

(2) Add the following item 7.:

Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor and at least two other faculty members from the jazz area.

(3) Add the following **Academic Standards** statement:

A grade of 3.0 or higher is required for Music 896.

Effective Fall 2020.

4. Change the requirements for the **Master of Music** degree in **Music Composition** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Replace item 2. b. with the following:

MUS	442	Advanced Techniques in Real Time Performance	2
MUS	883	Advanced Computer Music Projects	2

(2) Delete the following note in item 2.:

Philosophy 474 may be counted toward the requirements for the degree only if it is taught by a faculty member in the College of Music.

(3) Replace item 5. with the following:

Complete and submit an original music composition under the guidance of a member of the composition faculty that is acceptable to the student's final oral certifying examination committee consisting of two members from the composition area and a faculty member from either the music theory or musicology area. The composition must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

(4) Add the following **Academic Standards** statement:

A grade of 3.0 or higher is required for Music 899.

Effective Fall 2020.

5. Change the requirements for the **Doctor of Musical Arts** degree in **Music Composition** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

a. Under the heading **Guidance Committee** replace the paragraph with the following:

The student's guidance committee, which must be formed during the first year of graduate study, must consist of a faculty member in the area of music composition, who serves as chairperson, a second faculty member in the area of music composition, one faculty member in the area of music theory, and one faculty member in the area of music history.

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

(1) Replace item 4. b. with the following:

Complete an original music composition under the guidance of a faculty member in the composition area that is acceptable to the student's guidance committee. A copy of the

dissertation must be submitted to the Graduate School and to the office of the Associate Dean for Graduate Studies and will be retained as part of the permanent degree record.

Effective Fall 2020.

6. Change the requirements for the **Master of Music** degree in **Music Conducting** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

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

The student must conduct a full program in a public band concert, or conduct a series of pieces in two or more public band concerts.

(2) Add the following items 1. e. and 1. f.:

e. Perform a full program in a public band concert or conduct a series of pieces in two or more public band concerts under the guidance of the student's primary conducting instructor. A recording of the performance(s) must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
f. Complete the final oral certifying examination administered by a committee consisting of the student's primary conducting instructor, another member from the wind conducting area, and a faculty member from either the music theory or musicology area.

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

The student must conduct a full program in a public choral concert, or conduct a series of pieces in two or more public choral concerts.

(4) Add the following items 2. g. and 2. h.:

g. Perform a full program in a public choral concert or conduct a series of pieces in two or more public choral concerts under the guidance of the student's primary conducting instructor. A recording of the performance(s) must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
h. Complete the final oral certifying examination administered by a committee consisting of the student's primary conducting instructor, another member from the choral conducting area, and a faculty member from either the music theory or musicology area.

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

The student must conduct a full program in a public orchestral concert, or conduct a series of pieces in two or more public orchestral concerts.

(6) Add the following items 3. g. and 3. h.:

g. Perform a full program in a public orchestral concert or conduct a series of pieces in two or more public orchestral concerts under the guidance of the student's primary conducting instructor. A recording of the performance(s) must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
h. Complete the final oral certifying examination administered by a committee consisting of the student's primary conducting instructor, another member from the conducting area, and a faculty member from either the music theory or musicology area.

Effective Fall 2020.

7. Change the requirements for the **Doctor of Musical Arts** degree in **Music Conducting** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

   a. Under the heading **Guidance Committee** replace the two paragraphs with the following:

      The student's guidance committee, which must be formed in the first year of graduate study, must consist of the student's major professor, who serves as the chairperson, a second faculty member from the student's conducting area, one faculty member in the area of music theory, and one faculty member in the area of musicology. In instances where additional expertise would be beneficial it is recommended that the guidance committee include an additional faculty member from within or outside the College of Music.

   b. Under the heading **Requirements for the Doctoral of Musical Arts Degree in Music Conducting** make the following changes:

      (1) In item 5. b., replace paragraph two with the following:

         Performing groups for the required conducting appearances may be ensembles from the College of Music, or any school, church, or community musical ensemble able to meet the demands of the repertoire. The performance must be approved by a committee from the conducting area. A recording of each of the four programs must be submitted to the Office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

      (2) In item 5. b., replace paragraphs three, four, and five with the following:

         Two of the first three conducting appearances must be presented within six calendar months of each other.

         The fourth conducting appearance must involve a complete program.

      (3) Replace item 5. c. with the following:

         Submit a scholarly paper exhibiting a thorough understanding of a significant and relevant topic approved by the student's major professor and take a final oral examination of approximately two hours based on the paper and administered by the student's guidance committee.

   Effective Fall 2020.

8. Change the requirements for the **Master of Music** degree in **Music Education** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

      (1) Under the heading **Additional Requirements for Plan A**, add the following:

         2. Complete and submit a thesis under the direction of a member of the music education faculty that is acceptable to the final oral certifying committee consisting of the student's thesis advisor, another member from the music education area, and a faculty member from music faculty. A copy of the thesis must be submitted to the Graduate School and to the office of the Associate Dean for Graduate Studies and will be retained as part of the permanent degree record.

      (2) Under the heading **Additional Requirements for Plan B**, replace item 2. with the following:

         Pass a 3–hour written comprehensive examination administered by the final oral certifying committee consisting of the student's thesis advisor, another member from the music education area, and a faculty member from music faculty.

(3) Add the following **Academic Standards** statement:

A grade of 3.0 or higher is required for Music 899.

Effective Fall 2020.

9. Change the requirements for the **Doctor of Philosophy** degree in **Music Education** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Add the following item 4.:

4. Complete 24 credits of MUS 999 Doctoral Dissertation Research and a dissertation under the direction of a member of the music education faculty that is acceptable to the student's guidance committee. A copy of the dissertation must be submitted to the Graduate School and to the office of the Associate Dean for Graduate Studies and will be retained as part of the permanent degree record.

b. Add the following:

Academic Standards

Doctoral study presumes continuing excellence in course work. A student may accumulate no more than 6 credits with a grade below 3.0 in courses that are to be counted toward the degree.

Effective Fall 2020.

10. Change the requirements for the **Master of Arts** degree in **Musicology** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Under the heading **Additional Requirements for Plan A**, add the following item 2.:

Complete a thesis under the direction of a member of the musicology faculty that is acceptable to the final oral certifying committee consisting of the student's thesis advisor, another member from the musicology area, and a faculty member from music faculty. A copy of the thesis must be submitted to the Graduate School and to the office of the Associate Dean for Graduate Studies and will be retained as part of the permanent degree record.

(2) Under the heading **Additional Requirements for Plan B**, add the following item 2.:

Complete and submit a research project under the direction of a member of the musicology faculty that is acceptable to the final oral certifying committee consisting of the student's thesis advisor, another member from the musicology area, and a faculty member from music faculty. A copy of the project must be submitted to the Graduate School and to the office of the Associate Dean for Graduate Studies and will be retained as part of the permanent degree record. Possible projects include historical performance, instrument construction, or transcribing or editing historical music.

(3) Add the following **Academic Standards** statement:

A grade of 3.0 or higher is required for Music 896 and 898.

Effective Fall 2020.

11. Change the requirements for the **Master of Music** degree in **Music Performance** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Under the heading *Instrumental Music*, add the following under item 1. Piano:

e. Perform a recital under the guidance of the student's applied music instructor and approved by a committee from the piano area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
f. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the piano area, and a faculty member from either the music theory or musicology area.

(2) Under the heading *Instrumental Music*, add the following under item 2. Brass Instruments:

f. Perform a recital under the guidance of the student's applied music instructor and approved by a committee from the brass area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
g. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the brass area, and a faculty member from either the music theory or musicology area.

(3) Under the heading *Instrumental Music*, add the following under item 3. Stringed Instruments:

f. Perform a recital under the guidance of the student's applied music instructor and approved by a committee from the string area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
g. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the string area, and a faculty member from either the music theory or musicology area.

(4) Under the heading *Instrumental Music*, add the following under item 4. Woodwind Instruments:

f. Perform a recital under the guidance of the student's applied music instructor and approved by a committee from the woodwind area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
g. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the woodwind area, and a faculty member from either the music theory or musicology area.

(5) Under the heading *Instrumental Music*, add the following under item 5. Percussion Instruments:

f. Perform a recital under the guidance of the student's applied music instructor and approved by a committee from the percussion area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

g. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the percussion area, and a faculty member from either the music theory or musicology area.

(6) Under the heading *Instrumental Specialist*, make the following changes in item 1. Brass Instruments Specialist:

(a) In item a. delete the statement 'The recital performance must be on the student's major instrument.'

(b) Add the following:

g. Perform a recital on the student's primary instrument under the guidance of the student's applied music instructor and approved by a committee from the brass area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.
h. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the brass area, and a faculty member from either the music theory or musicology area.

(7) Under the heading *Instrumental Specialist*, make the following changes in item 2. Stringed Instruments Specialist:

(a) In item a. delete the statement 'The recital performance must be on the student's major instrument.'

(b) Add the following:

g. Perform a recital on the student's primary instrument under the guidance of the student's applied music instructor and approved by a committee from the string area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree recording.
h. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the string area, and a faculty member from either the music theory or musicology area.

(8) Under the heading *Instrumental Specialist*, make the following changes in item 3. Woodwind Instruments Specialist:

(a) In item a. delete the statement 'The recital performance must be on the student's major instrument.'

(b) Add the following:

g. Perform a recital on the student's primary instrument under the guidance of the student's applied music instructor and approved by a committee from the woodwind area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree recording.
h. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the woodwind area, and a faculty member from either the music theory or musicology area.

(9) Under the heading *Vocal Music*, make the following changes:

(a) In item a. delete the statement 'The recital performance must be a vocal performance.'

(b) Add the following:

6. Perform a vocal recital under the guidance of the student's applied music instructor and approved by a committee from the vocal arts area in a pre-recital hearing. A recording of the recital must be submitted to the office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree recording.
7. Complete the final oral certifying examination administered by a committee consisting of the student's applied music instructor, another member from the vocal arts area, and a faculty member from either the music theory or musicology area.

Effective Fall 2020.

12. Change the requirements for the **Doctor of Musical Arts** degree in **Music Performance** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

a. Under the heading **Guidance Committee**, replace the entire paragraph with the following:

The student's guidance committee, which must be formed during the first year of graduate study, must consist of the student's major professor, who serves as its chairperson, a second faculty member from the student's area, one faculty member from the area of musicology, and one faculty member from the area of music theory. In instances where additional expertise would be beneficial it is recommended that the guidance committee include a faculty member from within or outside the College of Music.

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

(1) Replace item 4. b. with the following:

Perform four public recitals that have been approved in a pre-recital hearing by a committee of faculty from the student's area. Three of the recitals must be solo recitals, two of which must be presented within two consecutive semesters, excluding summers. The fourth recital must be a chamber music recital. A recording of each of the four recitals must be submitted to the Office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

c. Under the heading **Academic Standards**, replace the first sentence with the following:

Doctoral study presumes continuing excellence in course work.

Effective Fall 2020.

13. Change the requirements for the **Master of Music** degree in **Piano Pedagogy** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

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

(1) Replace item 5. with the following:

Complete 2 credits of MUS 896 Recital Performance by performing a recital under the guidance of the student's applied music instructor and approved by a committee from the piano area in a pre-recital hearing. A recording of the recital must be submitted to the

office of the Associate Dean for Graduate Studies and will be retained by the College as part of the permanent degree record.

(2) Add the following item 7.:

7. Complete the final oral certifying examination administered by a committee consisting of the Director of Piano Pedagogy, another member from the piano area, and a faculty member from either the music theory or musicology area.

(3) Add the following **Academic Standards** statement:

A grade of 3.0 or higher is required for Music 896 and 898.

Effective Fall 2020.

COLLEGE OF NATURAL SCIENCE

1. Change the name of the **Doctor of Philosophy** degree in **Physiology** to **Molecular, Cellular, and Integrative Physiology** in the Department of Physiology. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

Students admitted to the major prior to Fall 2020 will be awarded a Doctor of Philosophy Degree in Physiology.

Students admitted to the major Fall 2020 and forward will be awarded a Doctor of Philosophy Degree in Molecular, Cellular and Integrative Physiology.

Effective Fall 2020.

COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the **Minor** in **Asian Pacific American Studies** in the College of Social Science.

a. Under the heading **Requirements for the Minor in Asian Pacific American Studies** make the following changes:

(1) In item 2., under **Race and Ethnicity** delete the following course:

FLM	450	Studies in Ethnic Film	3

(2) In item 2., under **Asian Studies** add the following courses:

HST	371	Women and Gender in Asia	3
HST	389	World War II in Asia and the Pacific	3

Delete the following courses:

ANP	414	Anthropology of South Asia	3
ASN	464	Studies in the Literature of Asia and the Asian Diaspora (W)	3
HA	463	Japanese Art	4
MC	323	Japanese Foreign Policy	4

(3) In the notes following item 2., replace paragraph three with the following:

One Asian language course at level 102 or above (Chinese, Hindi, Japanese, Korean, or Urdu) may be used toward Asian Studies courses in requirement 2.

(4) Insert the following option:

Students majoring in a College of Social Science major may complete the following set of requirements in fulfillment of the minor requirements in lieu of requirements 1. and 2. above. Students who plan to complete these requirements should consult an undergraduate advisor in the College of Social Science. The requirements may meet the College of Social Science college interdisciplinary minor requirement.

Complete a minimum of 16 credits from the following:

1. The following course (3 credits):

SSC	293	Introduction to Asian Pacific American Studies	3

2. Two of the following *Race, Ethnicity and Migration* courses (6 or 7 credits):

ANP	330	Race, Ethnicity and Nation: Anthropological Approaches to Collective Identity	3
ANP	437	Asian Communities: A Global Perspective	3
HDFS	442	Ethnic Families in America	3
HST	160	Introduction to Asian History and Culture	4
SOC	215	Race and Ethnicity	3
SOC	310	Global Migration	3

3. One of the following Asian Diaspora and Asia courses (3 or 4 credits):

CHS	102	Elementary Chinese II	5
CHS	201	Second-Year Chinese I	5
CHS	202	Second-Year Chinese II	5
CHS	301	Third-Year Chinese I	4
CHS	302	Third-Year Chinese II	4
CHS	350	Studies in Chinese Language	3
CHS	360	Chinese Film Studies	3
CHS	366	Chinese Culture: Tradition and Modernity (W)	3
CHS	401	Fourth-Year Chinese I	3
CHS	402	Fourth-Year Chinese II	3
CHS	410	Chinese Short Stories	3
CHS	411	Advanced Spoken Chinese	3
CHS	466	Modern Chinese Literature and Films (W)	3
ENG	352	Readings in Asian/Asian American/Asian Diaspora Literature and Visual Culture	3
HA	260	Asian Art	3
HA	462	The Arts of China	4
JPN	102	Elementary Japanese II	5
JPN	201	Second-Year Japanese I	5
JPN	202	Second-year Japanese II	5
JPN	301	Third-year Japanese I	4
JPN	302	Third-year Japanese II	4
JPN	350	Studies in Japanese Language	3
JPN	369	Introduction to Japanese Literature and Culture	3
JPN	401	Fourth-year Japanese I	3
JPN	402	Fourth-year Japanese II	3
JPN	431	Advanced Spoken Language	3
JPN	441	Japanese Short Stories	3
JPN	451	Advanced Japanese for Japanese Language Proficiency Test Preparation	3
JPN	469	Research Seminar in Japanese Literature and Culture (W)	3
JPN	491	Topics in Japanese Studies	1 to 3
KOR	102	Elementary Korean II	4
KOR	201	Intermediate Korean I	4
KOR	202	Intermediate Korean II	4
KOR	301	Intermediate-High Korean I	3
KOR	302	Intermediate-High Korean II	3
KOR	401	Advanced Korean I	3
KOR	402	Advanced Korean II	3
LL	152	First-Year Less Commonly Taught Language II	4
LL	251	Second-Year Less Commonly Taught Language I	4

	LL	252	Second-Year Less Commonly Taught Language II	4
	LL	261	Advanced Less Commonly Taught Language I	4
	LL	262	Advanced Less Commonly Taught Language II	4
	LL	301	Third-Year Less Commonly Taught Language I	3
	LL	302	Third-Year Less Commonly Taught Language II	3
	LL	401	Fourth-Year Less Commonly Taught Language I	3
	LL	402	Fourth-Year Less Commonly Taught Language II	3
	REL	325	East Asian Buddhism	3
	REL	335	East Asian Religions	3
	REL	355	Southeast Asian Religions	3
	Linguistics and Languages (LL) courses must be in Hindi and Urdu languages only.			
4.	The following capstone course (4 credits):			
	MC	319	Asian American History	4

Effective Summer 2020.

2. Change the administrative responsibility for the **Minor** in **Human Behavior and Social Services** in the School of Social Work to the College of Social Science.

3. Change the requirements for the **Minor** in **Human Behavior and Social Services**.

   a. Under the heading **Requirements for the Minor in Human Behavior and Social Services** make the following changes:

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

ANP	423	Psychological Anthropology	3

Add the following courses:

SSC	497	Flint Community Internship	3 to 12
SW	471	Child Welfare	3

      (2) Change item 5. to the following:

One of the following capstone courses (3 or 4 credits):

HDFS	447	Management of Human Service Programs	3
SW	494B	Social Work Field Education: Undergraduate Generalist Practice II	4

Students interested in SW 494B must be a social work major.

Effective Summer 2020.

4. Change the requirements for the **Master of Science** degree in **Criminal Justice** in the School of Criminal Justice. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020 meeting.

   a. Under the heading **Regular Status** replace item 3. with the following:

      3. Satisfactory scores on the Graduate Record Examination General Test. 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.

Effective Fall 2020.

5. Change the requirements for the **Master of Science** degree in **Child Development** in the Department of Human Development and Family Studies. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020.

a. Under the heading **Requirements for the Master of Science Degree in Child Development** replace the entire entry with the following:

The program focuses on the behavioral, psychological, biological and contextual processes that promote positive developmental outcomes in infants and young children. Key contexts of development emphasized in the program include family, early childhood educational settings, and culture. Courses are available in areas such as development across cultures, infant development, language and literacy research and practices, social-emotional development, observational methods for home or the classroom, approaches to early education, intervention and prevention programs, and parenting. Laboratory experiences in early childhood education are available in the Child Development Laboratories, and research experiences are available through work with faculty mentors. Both a thesis (Plan A) and non-thesis (Plan B) option are offered. Those pursuing Plan A are prepared for doctoral study in a variety of related fields.

Admission

Students must have:

1. A bachelor's degree from a recognized college or university.
2. A grade-point average of 3.00 or better during the last two full years of undergraduate study. Those between 2.5 and 3.0 must take the General Record Examination (GRE).
3. A favorable evaluation by at least three professional references.
4. Academic records, references, and experiences that reflect strong qualifications for graduate study.
5. Satisfactory verbal ability and quantitative ability scores on the Aptitude Test of the Graduate Record Examination (GRE) is required for Plan A (Thesis). This option is for those wishing to pursue a research focus and potential doctoral degree.

International applicants must take the Test of English as a Foreign Language (TOEFL) exam: 1) Paper-based version: minimum average score of 550, no subscore below 52; 2) Computer-based version: minimum average score of 213, no subscore below 19; 3) Internet-based version: minimum average score of 80; no subscore below 19 for reading, listening, and speaking; no writing subscore below 22.

Requirements for the Master of Science Degree in Child Development

The Master of Science Degree in Child Development is available under Plan A (with thesis) or Plan B (without thesis). A total of 30 credits is required for Plan A and a total of 32 credits is required for Plan B.

Requirements for Plan A

1. All of the following courses (a minimum of 12 credits):

HDFS	810	Theories of Human Development	3
HDFS	811	Child Development: Ecological Perspectives	3
HDFS	821	Prevention, Intervention and Educational Programs in Early Childhood	3
HDFS	892	Seminar in Human Development and Family Studies	1 to 4

2. Both of the following courses approved by the student's advisor (6 credits):
   A 3 credit research methodology course
   A 3 credit quantitative methods course
3. One of the following courses (3 credits):

HDFS	826	Social-Emotional Development Birth to Eight Years: Biology, Relationships, and Culture	3
HDFS	827	Language and Literacy Development from Infancy to Formal Schooling	3

4. An additional elective course approved by the student's advisor.
5. Complete 6 credits of HDFS 899 Master's Thesis Research.

Requirements for Plan B

1. The following course (3 credits):

HDFS	811	Child Development: Ecological Perspectives	3

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

HDFS	449	Special Needs Children and Their Families	3
HDFS	825	Families with Special Needs Children: An Ecological Perspective	3

3. One of the following courses (3 credits):

HDFS	414	Parenting	3
HDFS	892	Seminar in Human Development and Family Studies	3

HDFS 892 must be approved by the student's advisor to assure appropriate content.

4. The following course (3 credits):

HDFS	847	Theories of the Family	3

5. All of the following courses (14 credits):

HDFS	817	Advanced Practice in Infant and Toddler Early Childhood Programming	3
HDFS	818	Advanced Curricular Adaptations in Diverse Early Childhood Environments	3
HDFS	819	Advanced Teaching Practicum in an Early Childhood Setting	4
HDFS	822	Assessment of the Young Child	3
HDFS	894	Laboratory and Field Experience	1

6. Both of the following courses (6 credits):

HDFS	473	Administration of Early Childhood Programs	3
HDFS	821	Prevention, Intervention and Educational Programs in Early Childhood Education	3

Effective Fall 2020.

6. Change the requirements for the **Master of Science** degree in **Human Development and Family Studies** in the Department of Human Development and Family Studies. The University Committee on Graduate Studies (UCGS) approved this request at its March 9, 2020.

a. Under the heading **Requirements for the Master of Science Degree in Human Development and Family Studies** replace the entire entry with the following:

The Master of Science Degree in Human Development and Family Studies is designed to help students gain an understanding of increasingly diverse family units as well as individual family members as they develop across the life course. Depending upon student interest and career goals, focus may be on human development (adolescence, aging), leadership, policy or diversity. Students are prepared to work with and advocate for families, children, youth and adults in a broad range of settings, including extension offices, community agencies, and policy-making contexts. Both a thesis (Plan A) and non-thesis (Plan B) option are offered. Those pursuing Plan A are prepared for doctoral study in a variety of related fields.

Admission

Students must have:

1. A bachelor's degree from a recognized college or university.
2. A grade-point average of 3.00 or better during the last two full years of undergraduate study. Those between 2.5 and 3.0 must take the General Record Examination (GRE).
3. A favorable evaluation by at least three professional references.
4. Academic records, references, and experiences that reflect strong qualifications for graduate study.

5. Satisfactory verbal ability and quantitative ability scores on the Aptitude Test of the Graduate Record Examination (GRE) is required for Plan A (Thesis). This option is for those wishing to pursue a research focus and potential doctoral degree.

International applicants must take the Test of English as a Foreign Language (TOEFL) exam: 1) Paper-based version: minimum average score of 550, no subscore below 52; 2) Computer-based version: minimum average score of 213, no subscore below 19; 3) Internet-based version: minimum average score of 80; no subscore below 19 for reading, listening, and speaking; no writing subscore below 22.

Requirements for the Master of Science Degree in Human Development and Family Studies

The Master of Science Degree in Human Development and Family Studies is available under Plan A (with thesis) or Plan B (without thesis). A total of 30 credits is required for both Plan A and Plan B.

Requirements for Both Plan A and Plan B

1. All of the following courses (12 credits):

HDFS	810	Theories of Human Development	3
HDFS	847	Theories of the Family	3
HDFS	880	Research Design and Measurement	3
HDFS	892	Seminar in Human Development and Family Studies	3

Additional courses may be substituted for HDFS 892 with advisor approval.

Additional Requirements for Plan A

1. The following course (3 credits):

HDFS	881	Quantitative Methods in Human Development	3

2. Complete 9 credits chosen in consultation with the student's advisor.
3. Complete 6 credits of HDFS 899 Master's Thesis Research.

Additional Requirements for Plan B

1. Both of the following courses (6 credits):

HDFS	481	Research and Quantitative Methods in Human Development and Family Studies	3
HDFS	845	Foundations of Family Study	3

2. Complete 12 credits chosen in consultation with the student's advisor.

Effective Fall 2020.

PART II - NEW COURSES

BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 862 Advances in Diagnostic Microbiology
Spring of odd years. Summer of even years. 3(3-0) P: MMG 365 or approval of department RB: (MMG 465 or BLD 430) or similar coursework or equivalent experience. R: Open to graduate students.
Theoretical and applied clinical microbiology using MALDI-TOF, next generation sequencing, validation of new methods, and bioinformatics.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 3 semesters after the end of the semester of enrollment.
Effective Summer 2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CSE 801A Introduction to Big Data Analysis
Spring of every year. 3(3-0) RB: Probability, some linear algebra, and some geometry. Some programming background such as familiarity with python and scripting/command line usage in various operating systems. R: Open to graduate students in the Business Analytics Major.
Introduction to data retrieval, processing, analysis, and visualization.
Effective Spring 2020

CSE 801B Introduction to Data Mining
Fall of every year. 3(3-0) P: CSE 801A R: Open to graduate students in the Business Analytics Major.
Basic techniques and algorithms for knowledge discovery in databases.
Effective Spring 2020

SCHOOL OF JOURNALISM

JRN 412 Scoring for Moving Pictures
Fall of every year. Spring of every year. Summer of every year. 3(2-2)
Approaches during the process of scoring for moving pictures in support of emotion, narrative, ethics and culture.
Effective Fall 2020

JRN 484 Sports Journalism Education Abroad
Summer of even years. 6(6-0) P: JRN 200 or approval of school
Examine European sporting cultures (ancient and modern) in Paris and Rome. Study how sports journalism operates in both cities through experiential learning by attending tours, guest lectures, experiencing live sporting events and seeing sports journalism in action.
Effective Summer 2020

JRN 485 Environmental Communication Education Abroad
Summer of every year. 6(6-0) R: Approval of school.
Local environmental problems and the ways in which they are connected to political, economic, social, and ecosystemic dynamics at a global scale. Explore the ways in which diverse stakeholders involved in environmental decision-making use communication strategies to achieve their goals and objectives.
Effective Summer 2020

JRN 486 British and Irish Mass Media Education Abroad
Summer of every year. 3(3-0) R: Approval of school.
Examine the rapidly changing world of media and communication in London, Scotland, Ireland, and Wales. Themes studied are traditional and digital media, marketing and advertising, journalism, broadcasting and public relations.
Effective Summer 2020

JRN 802 Journalism ProSeminar
Fall of every year. 1(1-0) R: Open to graduate students or master's students in the College of Communication Arts and Sciences or in the School of Journalism or approval of school.
Seminar on professional and academic issues and careers in journalism. Specific discussion topics selected by faculty.
Effective Fall 2020

JRN 804 Journalism Studies Seminar
Fall of every year. 3(3-0)
Wider social and cultural contexts within which journalism is practiced, and reviews the variety of ways in which journalism has been understood as an object of study and research.
Effective Fall 2020

JRN 805 Disruptions in Journalism
Fall of every year. 3(3-0)
Key changes in technology, society, economic models, political forces, diversity, science and the environment, and arts and culture by exploring how these forces shape and reshape journalism principles and practices.
Effective Fall 2020

JRN 806 Contemporary Issues in Journalism
Spring of every year. 3(3-0)
Contemporary global challenges, controversies and changing dynamics in journalism and the news media. Obstacles to and opportunities for independent journalism. Journalistic professional practices, standards and ethics.
Effective Fall 2020

DEPARTMENT OF MEDIA AND INFORMATION

MI 304 Information and Society
Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to undergraduate students in the Department of Media and Information.
Focus on the historical and emerging potential impact of information on society as a whole. Multidisciplinary approach to explore how information technologies are adopted, and how information is collected, processed and used impacts the well-being of individuals, communities and society.
Effective Fall 2020

MI 330 Game Level Design
Spring of every year. 3(2-2) P: MI 230 RB: MI 231 or MI 247 R: Open to undergraduate students in the Department of Media and Information.
Exploration of concepts in the planning, implementation, and testing of spaces and environments for games and interactive media.
Effective Fall 2020

MI 332 Game Interface Design
Spring of every year. 3(2-2) P: MI 230 RB: MI 231 R: Open to undergraduate students in the Department of Media and Information.
Exploration of concepts in the planning, implementation, and testing of games and interactive media user interfaces.
Effective Fall 2020

MI 334 eSports and Online Broadcasting
Fall of every year. 3(2-2) P: (CAS 117) and completion of Tier I writing requirement RB: CAS 112 or concurrently R: Open to undergraduate students in the Department of Media and Information.
Understand eSports industries, study esports film and game replays, streaming technologies and implementation, practice techniques essential to competitive play and streaming.
Effective Fall 2020

MI 339 Games and Society
Fall of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to undergraduate students in the Department of Media and Information or approval of department.
Cultural, technological, and design evolution of games. Current and historical game genres, content, audience, and industries for games. Critical examination of empirical research concerning social impacts of games.
Effective Fall 2020

MI 402 Topics in Game Studies (W)
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. P: (MI 101) and completion of Tier I writing requirement RB: MI 339 or concurrently
Cultural, technological, and design evolution of games. Current and historical genres, content, audience, and industries for games. Conventional and emerging theories of game processes and effects. Critical examination of empirical research concerning social impacts of games.
Effective Fall 2020

MI 411A Advanced Documentary Filmmaking I (W)
Fall of every year. 3(2-2) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. P: (MI 311) and Completion of Tier I Writing Requirement R: Open to undergraduate students in the Documentary Production Minor.
Design and development of documentaries in a team setting using video and audio, still photography, web design, and print media. Participation in a production cycle including idea generation, research, design, production, and distribution.
SA: MI 411
Effective Fall 2020

MI 411B Advanced Documentary Filmmaking II (W)
Spring of every year. 3(2-2) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. P: (MI 411A) and completion of Tier I writing requirement R: Open to undergraduate students in the Documentary Production Minor.
Design and development of documentaries in a team setting using video and audio, still photography, web design, and print media. Participation in a production cycle including idea generation, research, design, production, and distribution.
SA: MI 411
Effective Fall 2020

MI 425 Advanced Data Analysis
Spring of every year. 3(3-0) P: MI 320 RB: Completion of Tier I Writing Requirement R: Open to undergraduate students in the Department of Media and Information.
Conduct research using appropriate statistical models and to communicate their results to both technical and nontechnical audiences. Foundation in probability theory, maximum likelihood, and various types of regression models to investigate and implement a wide range of advanced statistical models. Manipulate data to answer the research questions in the field of Media and Information.
Effective Fall 2020

MI 430 Game Writing (W)
Fall of every year. Summer of every year. 3(3-0) P: (CAS 117) and completion of Tier I writing requirement RB: Completion of Tier I Writing Requirement R: Open to undergraduate students or master's students in the Department of Media and Information.
Create game scripts and narrative, character and environment descriptions, dialogue, cut scenes, and pitch documents.
Effective Fall 2020

MI 477 Character Design (W)
Summer of every year. 3(2-2) P: ((CAS 116 and MI 227 and MI 247) and completion of Tier I writing requirement) and (MI 347 or MI 377) R: Open to students in the Department of Media and Information.
Theory and workflow of feature characters for games, movies, and television.
Effective Fall 2020

MI 486 Serious Game Design (W)
Spring of every year. 3(3-0) P: (MI 230) and completion of Tier I writing requirement R: Open to undergraduate students or graduate students in the Department of Media and Information.
Approaches and techniques to serious games development. Focus on an area of interest resulting in a rough prototype from platforms/forms ranging from analog to digital.
Effective Fall 2020

DEPARTMENT OF MEDICINE

MED 645 Medicine Critical Care Remediation
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.
Hospital-based clinical experience in evaluating and managing acutely ill adult patients.
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 Spring 2020

DEPARTMENT OF PEDIATRICS AND HUMAN DEVELOPMENT

PHD 645 Pediatric Critical Care Remediation
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.
Hospital-based clinical experience in evaluating and managing acutely ill pediatric patients.
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 Spring 2020

DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

PHM 818 Practical Pharmacokinetics/Pharmacodynamics Modeling and Simulation in Drug Development
Fall of every year. 1(1-0) P: PHM 819 or approval of department R: Open to graduate students in the Integrative Pharmacology Major or in the Pharmacology and Toxicology Major or approval of department.
Modeling of pharmacokinetics and pharmacodynamics using published graphic use interfaces to solve models pertinent to pharmacology and toxicology.
Effective Fall 2020

PHM 823 Current Topics in Pharmacology and Toxicology
Fall of every year. 1(1-0) P: PHM 819 R: Open to graduate students in the Department of Pharmacology and Toxicology or in the Integrative Pharmacology Major or in the Pharmacology and Toxicology Major. Approval of department.
Exploration of pharmacology and toxicology topics that have gathered recent attention either in scientific or popular arenas.
Effective Fall 2020

PHM 838 Pharmacogenomics
Fall of every year. 2(2-0) P: PHM 819 RB: Knowledge of general principles of pharmacology, physiology, and genetics R: Open to graduate students in the Integrative Pharmacology Major or in the Pharmacology and Toxicology Major. Approval of department.
Dissection of the basics of genomics and its interplay with traits, efficacy, toxicity, kinetics and dosage involving drugs and drug pathways.
Effective Fall 2020

DEPARTMENT OF PLANT BIOLOGY

PLB 480 Epigenetics
Spring of even years. 3(3-0) Interdepartmental with Integrative Biology. P: IBIO 341 or CSS 350 R: Approval of college.
Molecular mechanisms of epigenetic modifications of eukaryotic genomes and their roles in biological processes, human diseases and cancer, plant development, and production.
Effective Spring 2020

PLB 843 Forum in Computational and Plant Sciences
Fall of every year. Spring of every year. 1(1-0) Interdepartmental with Biochemistry and Molecular Biology and Computational Mathematics, Science, and Engineering and Crop and Soil Sciences and Horticulture. A student may earn a maximum of 4 credits in all enrollments for this course.
Professional development focused on diverse modes of communication in support of interdisciplinary science with an emphasis on plant and computational sciences.
Effective Fall 2020

DEPARTMENT OF SURGERY

SUR 645 Surgical Critical Care Remediation
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.
Hospital-based clinical experience in evaluating and managing acutely ill surgical patients.
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 Spring 2020

PROGRAM IN WOMEN, GENDER AND SOCIAL JUSTICE

WS 102 Navigating Sex and Gender in Everyday Life
Fall of every year. 2(2-0) A student may earn a maximum of 4 credits in all enrollments for this course.
Survey of current topics related to women, gender, sexuality, and social justice. Diversity, global perspectives, contextualizing the individual within a complex world.
Effective Fall 2020

DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 495 Advanced Studies in Writing and Tutoring Pedagogy
Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement
Writing- and reading-intensive special topics in writing, writing centers, and tutoring pedagogy, such as curriculum design, working with varied populations and media, writing in/for different contexts.
Effective Fall 2020

PART III – COURSE CHANGES

COLLEGE OF ARTS AND LETTERS

MUSM 887 ~~Museums and Technology~~
Museums, Arts and Culture in the Digital Future
Fall of every year. Spring of every year. ~~Summer of even years.~~ 3(3-0) Interdepartmental with Anthropology and History. ~~RB: MUSM 888~~ R: Open to graduate students or lifelong graduate students in the College of Arts and Letters.

~~Theoretical and practical approaches to the way museums, zoos, gardens and other cultural sites use digital media, the web, interactive media and databases to engage the public, create virtual exhibits and web presences, and manage collections. Ways technologies are changing the definition of visitors and visitor experiences and the definitions of museums.~~ Theoretical and practical approaches to the ways performing arts organizations, museums, zoos, aquariums, gardens, historic houses, science centers and other cultural sites plan for and use digital through various contemporary and emergent means. Explores the ways digital technologies are changing the definitions of audiences, visitor experiences, arts and cultural professionals, and organizations.
SA: AL 887
~~Effective Fall 2017~~ Effective Fall 2020

DEPARTMENT OF FAMILY MEDICINE

FM 644 ~~Family Medicine SubInternship in the Late Clinical Experience Remediation~~
Family Medicine Clerkship in the Late Clinical Experience Remediation
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: FM 641 R: Open to graduate-professional students in the College of Human Medicine.

Interviewing skills, history, physical exam, problem solving and therapy in community hospitals and/or ambulatory sites.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
~~Effective Fall 2018~~ Effective Summer 2020

DEPARTMENT OF INTEGRATIVE BIOLOGY

IBIO 101 Exploring Biology
Fall of every year. Spring of every year. 1(1-0) R: Open to freshmen or sophomores in the Department of Integrative Biology or in the Lyman Briggs College or in the Environmental Biology/Zoology Major or in the Bachelor of Science in Zoology or in the Bachelor of Arts in Zoology or in the Lyman Briggs Environmental Biology/Zoology Coordinate Major or in the Lyman Briggs Zoology Coordinate Major.

Biology as a discipline. Investigation of diverse career options and of skills and background knowledge required to be a modern biologist. Integration of human and technical skills in scientific scholarship and inquiry.
SA: ZOL 101
DELETE COURSE
Effective Spring 2020

IBIO 316 General Parasitology
Spring of every year. 3(3-0) P: LB 144 or BS 162 or BS 182H

Identification, life history, host-parasite relationships, and epidemiology of protozoan, helminth, acanthocephalan, copepod, and arthropod parasites of animals and humans.
SA: ZOL 316
DELETE COURSE
Effective Spring 2020

IBIO 343 Genetics Laboratory
Spring of every year. 3(0-6) P: (IBIO 341 or concurrently) and completion of Tier I writing requirement
Experiments involving genetics of Drosophila and other eucaryotic organisms.
SA: ZOL 343
DELETE COURSE
Effective Spring 2020

IBIO 403 Integrative Neurobiology
Spring of odd years. 3(3-0) P: IBIO 402 or PSY 209 RB: Junior or Senior level
How the nervous system has evolved mechanisms to determine the location and significance of physical and social sensory information. Epigenetic factors that guide nervous system development.
SA: ZOL 403
DELETE COURSE
Effective Spring 2020

IBIO 848 Current Topics in Evolutionary Development Biology
Spring of every year. 3(3-0) RB: (IBIO 445 or IBIO 320 or IBIO 425 or IBIO 341) or background in evolutionary biology or developmental biology.
Genetic and developmental basis for evolutionary change. Synthesis of molecular and developmental genetics with evolutionary biology. Discussion of primary literature in evolutionary development.
SA: ZOL 848
DELETE COURSE
Effective Spring 2020

SCHOOL OF JOURNALISM

JRN 206 ~~Video Storytelling with Cell Phones~~
Video Storytelling with Phones
Fall of every year. Spring of every year. Summer of every year. 3(2-2)
~~Fundamentals of video storytelling using cell phone cameras: basics of shooting and editing video; video aesthetics; natural sound: audio and microphones; interviewing; journalism newsgathering and ethics.~~ Fundamentals of video storytelling using phone cameras. Basics of shooting and editing video. Video aesthetics. Natural sound. Audio and microphones. Interviewing. Journalism news gathering and ethics.
~~Effective Fall 2018~~ Effective Summer 2020

JRN 306 Introduction to Radio, Podcasting and TV News
Fall of every year. Spring of every year. Summer of every year. 3(2-2) ~~P: JRN 300 or concurrently or approval of department~~ P: (JRN 300 or concurrently) and JRN 206 or approval of department
RB: Basic knowledge of video shooting and editing recommended
Fundamentals of audio storytelling. Introduction to broadcast style writing; scripting for radio news and podcasting; voice tone and cadence. Exposure to professional cameras for video stories.
~~Effective Fall 2018~~ Effective Summer 2020

JRN 310 Photojournalism
Fall of every year. Spring of every year. 3(2-2) ~~P: JRN 203 or JRN 483 or approval of school~~ R: Open to students in the School of Journalism.
~~Photography storytelling by learning the principles and ethics of successful visual communication, camera operation and software editing.~~ Beginning photographic storytelling and editing for media. Principles and ethics of non-fiction visual communication, camera operation and software editing.
~~Effective Fall 2018~~ Effective Fall 2020

JRN 336 Designing for Media
Fall of every year. Spring of every year. 3(2-2) ~~P: JRN 203 or approval of school~~
Creating and composing visual communication design for digital and print publications. Theory and practice in typography, visual editing, alternative story forms, hierarchy and use of color.
~~Effective Fall 2018~~ Effective Fall 2020

JRN 365 International News and Government Dynamics
~~Fall of every year.~~ Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Explores the importance of journalism in the process of building governments in different countries. Compares features of global media and coverage in international contexts. Regions rotate each year: Latin America and the Caribbean; Africa and the Middle East; Asia and the Pacific; and Europe. Historical influences and impact of government-media relations and types of media and technology outlets.
SA: JRN 335
~~Effective Fall 2018~~ Effective Summer 2020

JRN 372 Environment, Science and Health Journalism Special Topics
Fall of every year. Spring of every year. ~~Summer of every year. 1 to 6 credits.~~ 3(3-0) ~~A student may earn a maximum of 12 credits in all enrollments for this course.~~ A student may earn a maximum of 6 credits in all enrollments for this course.
Analyze and understand the context of environment, science and health events and issues for news coverage.
~~SA: JRN 473~~
~~Effective Fall 2018~~ Effective Summer 2020

JRN 420 Capital News Service
Fall of every year. Spring of every year. ~~1 to 6 credits.~~ 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course.
~~Supervised professional experience in covering Michigan politics and state government as correspondents for selected media. Student work and bylines appear in professional print and online media, preparing them for the industry.~~ Supervised professional experience in covering Michigan politics and state government as correspondent. Student work and bylines appear in professional print and online media, preparing them for the industry.
~~Effective Fall 2018~~ Effective Fall 2020

JRN 450 Media Innovation and Entrepreneurship
Spring of every year. 3(3-0) P: JRN 200 and JRN 300 ~~R: Open to juniors or seniors or graduate students in the College of Communication Arts and Sciences.~~ R: Open to students in the College of Communication Arts and Sciences.
Developing and marketing innovations in journalism media that have the potential for commercial enterprise. Building blocks of entrepreneurship to know how to test markets, prototype, and develop audiences.
~~Effective Fall 2018~~ Effective Summer 2020

JRN 472 ~~Environment, Science and Health Reporting~~
Environmental, Science and Health Reporting
Fall of every year. Spring of every year. Summer of every year. ~~1 to 6 credits.~~ 3(2-2) ~~A student may earn a maximum of 12 credits in all enrollments for this course.~~ A student may earn a maximum of 6 credits in all enrollments for this course. ~~R: Approval of school.~~
Investigative reporting on environment, science and health. Text, video, audio stories published on GreatLakesEcho.org and other venues. Analyzing environment, science and health events and issues for news coverage.
~~Effective Fall 2018~~ Effective Summer 2020

JRN 808 Journalism Education Visual Topics
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: Teaching degree. R: Open to graduate students. Approval of school.
Visual communication topics for teachers who advise student media in middle or high schools. Teaching methods and best practice used in photography, web and print design and video.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
DELETE COURSE
Effective Spring 2020

JRN 809 Journalism Education Advising Topics
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: Teaching degree. R: Open to graduate students in the College of Education or in the Department of Teacher Education or in the Journalism Disciplinary Teaching Minor or approval of school.

Specialized course offerings for teachers. Topics may include classroom management techniques for media advisers, working with diverse audiences, creating necessary curricula that align with state standards.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
DELETE COURSE
Effective Spring 2020

JRN 825 Journalism History and Qualitative Methods
Spring of every year. 3(3-0) R: Open to graduate students.

How journalism and media evolved as they are today. Qualitative methods to research formats, platforms, design, content or policy. Variable time periods, societies and geographies.
DELETE COURSE
Effective Spring 2020

JRN 872 Environment, Science and Health Reporting Topics
Fall of every year. Spring of every year. 3(2-2) ~~A student may earn a maximum of 9 credits in all enrollments for this course.~~ A student may earn a maximum of 6 credits in all enrollments for this course. ~~P: JRN 800 R: Open to graduate students.~~

~~Resources and practical experience in reporting and writing about environment, science and health topics.~~ Resources and practical experience in reporting and writing about environmental, science and health topics for GreatLakesEcho and other venues.
~~Effective Fall 2012~~ Effective Fall 2020

JRN 873 ~~Environment, Science and Health Journalism Seminars~~
Environment, Science and Health Journalism Seminar
~~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.~~ A student may earn a maximum of 6 credits in all enrollments for this course. ~~R: Open to graduate students.~~

~~Issues in environment, science and health journalism.~~ Issues in environmental, science and health journalism.
~~Effective Fall 2012~~ Effective Summer 2020

JRN 892 Journalism Special Topics
Fall of every year. Spring of every year. Summer of every year. ~~3(3-0)~~ 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. ~~R: Open to graduate students.~~

Topics vary.
~~Effective Fall 2012~~ Effective Summer 2020

DEPARTMENT OF MEDIA AND INFORMATION

MI 201 ~~Media and Information Technologies and Industries~~
Introduction to Information Science
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: (MI 101 or concurrently) or (CSE 231 or concurrently)~~ P: MI 101 R: Open to undergraduate students in the Department of Media and Information.

~~Operational principles and applications of media and information technologies and services. Technological, business, and policy developments transforming media and information industries. Local, national and global players in the media and information sector.~~ Overview and critique of concepts of information, the history of computing and information, uses and effects of information technology, information management, and human-centered approaches to designing information systems.
~~SA: TC 201~~
~~Effective Fall 2016~~ Effective Fall 2020

MI 211 ~~Documentary History and Theory~~
Documentary Film History and Theory
Fall of every year. ~~3(3-0)~~ 3(1-4) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. ~~R: Open to students in the School of Journalism or in the Department of Media and Information or in the Department of Writing, Rhetoric and American Cultures or in the Documentary Studies Specialization or in the Film Studies major.~~ R: Open to students in the School of Journalism or in the Department of Media and Information or in the Department of Writing, Rhetoric and American Cultures or in the Film Studies major.
~~Documentary history and theory form its origins to the present.~~ Documentary history and theory from its origins to the present.
~~Effective Fall 2015~~ Effective Fall 2020

MI 227 Concept Design for Games, Film, and TV
Fall of every year. Spring of every year. 3(2-2) P: CAS 116 ~~R: Open to students in the Department of Media and Information or in the Game Design and Development Minor or in the Fiction Filmmaking Minor.~~ R: Open to students in the Department of Media and Information or in the Game Design and Development Minor or in the Computer Science Major or in the Graphic Design Major or in the Bachelor of Fine Arts in Studio Art or in the Studio Art Major.
Introduction to theories and techniques for generating concept art and design for games, films, TV, and animations.
~~Effective Fall 2017~~ Effective Fall 2020

MI 230 Game Design
~~Fall of every year.~~ Spring of every year. 3(2-2) P: CAS 117 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 or in the Information and Communication Technology for Development Minor.
Analyze, critique, and design of non-digital and digital games. Overview of game industry.
SA: TC 346, MI 346
~~Effective Summer 2018~~ Effective Spring 2020

MI 231 Game and Interactive Media Development
Fall of every year. Spring of every year. 3(2-2) P: (CAS 117) or (CAS 204 and CAS 208) ~~R: Open to students in the Department of Media and Information or in the Design Specialization.~~ R: Open to students in the Department of Media and Information or in the Computer Science Major or in the Graphic Design Major or in the Bachelor of Fine Arts in Studio Art or in the Studio Art Major.
Brainstorming, planning, implementing, and troubleshooting applications and interfaces for games and interactive media. Basic principles of programming for interactivity.
SA: TC 241, TC 331, MI 331
~~Effective Fall 2016~~ Effective Fall 2020

MI 311 ~~Introduction to Documentary Production~~
Introduction to Documentary Filmmaking
Spring of every year. 3(2-2) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. P: MI 211 R: Open to students in the Documentary Production Minor.
Introduction to documentary production using accessible and affordable digital technology.
SA: TC 233
~~Effective Fall 2016~~ Effective Fall 2020

MI 320 Reasoning with Data
Spring of every year. 3(2-2) ~~P: MI 220 and MI 250~~ P: (MI 220 and MI 250) or CSE 231
Explore and summarize structured data using simple statistics such as means, standard deviations, contingency tables, and hypothesis tests, and use this data to evaluate arguments and draw conclusions about technology performance and human behavior.
~~Effective Fall 2016~~ Effective Fall 2020

MI 350 Evaluating Human-Centered Technology
Spring of every year. 3(2-2) ~~P: MI 220 and MI 250~~ P: (MI 220 and MI 250) or CSE 231
How to form context-specific inquiry based on user needs and goals, assess fundamental usability problems, conduct lab-based summative evaluation methods, summarize their evaluation results into reports and design suggestions.
~~Effective Fall 2016~~ Effective Fall 2020

MI 401 ~~Topics in Media, Information and Society (W)~~
Topics in Information Science (W)
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: (MI 101) and completion of Tier I writing requirement RB: MI 304 or concurrently
~~Cultural, technological, and design evolution of media and information. Conventional and emerging theories of media processes and effects. Critical examination of empirical research concerning social impacts of media, information technologies, and the Internet.~~
Cultural, technological, and design evolution of information. Conventional and emerging theories of information processes and effects. Critical examination of empirical research concerning social impacts of media, information technologies, and the internet.
~~SA: TC 239, TC 339, TC 375, TC 401~~
~~Effective Fall 2016~~ Effective Fall 2020

MI 420 Interactive Prototyping
Fall of every year. 3(2-2) ~~P: MI 220 and MI 250~~ P: (MI 220 and MI 250) or CSE 231
Creation of iterative and diverse prototypes of computer-based technologies that satisfy user needs. Low-fidelity prototypes that can be used for design feedback and medium-fidelity working prototypes that can be used to assess interactivity and social goals.
~~Effective Fall 2016~~ Effective Fall 2020

MI 482 ~~Building Virtual Worlds~~
Building Virtual Worlds (W)
Spring of every year. 3(2-2) ~~P: (MI 230) or MI 445~~ P: ((MI 230) or completion of Tier I writing requirement) or MI 445 RB: MI 247 R: Open to students in the Department of Media and Information or in the Game Design and Development Minor.
Theoretical and practical approaches to the planning, design, and development of virtual worlds for games and simulations.
~~Effective Summer 2018~~ Effective Fall 2020

MI 484 ~~Building Innovative Interfaces~~
Building Innovative Interfaces (W)
Fall of every year. 3(2-2) ~~P: MI 231 or MI 250 or CSE 320 or CSE 331 or CSE 335~~ P: (MI 231 or MI 250 or CSE 320 or CSE 331 or CSE 335) and completion of Tier I writing requirement 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.
Designing, implementing and evaluating new interaction devices using mobile and sensor technologies.
~~Effective Fall 2016~~ Effective Fall 2020

MI 491 Special Topics
Fall of every year. Spring of every year. 1 to 4 credits. ~~A student may earn a maximum of 8 credits in all enrollments for this course.~~ A student may earn a maximum of 9 credits in all enrollments for this course. ~~R: Open to juniors or seniors or graduate students in the Department of Media and Information.~~ R: Open to juniors or seniors or graduate students in the Department of Media and Information. A student may earn a maximum of 16 credits MI291 and MI491.
Contemporary issues in media and communication technology.
SA: TC 491
~~Effective Fall 2015~~ Effective Fall 2020

MI 498 Collaborative Game Design (W)
Spring of every year. 3(2-2) ~~P: (MI 497 or MI 482 or MI 447) and completion of Tier I writing requirement~~ P: (MI 497) and completion of Tier I writing requirement ~~R: Open to students in the Department of Media and Information or in the Game Design and Development Minor.~~ R: Open to students in the Game Design and Development Minor.
Design and development of comprehensive digital games in a team setting working with a client. Participation in a design cycle including specification, design, prototyping, implementation, testing, and documentation. Issues of professionalism, ethics, and communication.
SA: TC 498
~~Effective Fall 2016~~ Effective Fall 2020

DEPARTMENT OF MEDICINE

MED 644 ~~Internal Medicine Subinternship in the Late Clinical Experience Remediation~~
Internal Medicine Clerkship in the Late Clinical Experience Remediation
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: MED 641 R: Open to graduate-professional students in the College of Human Medicine.
Interviewing skills, history, physical exam, problem solving and therapy based in community hospitals and/or ambulatory sites.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
~~Effective Fall 2018~~ Effective Summer 2020

PROGRAM IN NEUROSCIENCE

NEU 841 Medical Neuroscience
Fall of every year. Spring of every year. 3(3-0) RB: Undergraduate degree in the biological sciences R: Not open to doctoral students in the Program in Neuroscience. ~~Not open to students with credit in NEU 830.~~ Not open to students with credit in NEU 802.
Detailed survey of nervous system structure and function with an emphasis on medical applications.
~~Effective Fall 2016~~ Effective Spring 2020

NEU 846 Neurobiology of Nervous System Disorders
~~Spring of every year.~~ Summer of every year. 3(3-0) RB: NEU 841 or concurrently R: Not open to doctoral students in the Program in Neuroscience.
Overview of abnormalities that contribute to central nervous system, peripheral nervous system, and psychological diseases and disorders examined at genetic, cellular, and behavioral levels.
~~Effective Spring 2017~~ Effective Spring 2020

DEPARTMENT OF PEDIATRICS AND HUMAN DEVELOPMENT

PHD 644 ~~Pediatric Subinternship in the Late Clinical Experience Remediation~~
Pediatric Clerkship in the Late Clinical Experience Remediation
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: PHD 641 R: Open to graduate-professional students in the College of Human Medicine.
Interviewing skills, history, physical exam, problem solving and therapy based in community hospitals and/or ambulatory sites.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
~~Effective Fall 2018~~ Effective Summer 2020

DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

PHM 834 ~~Respiratory Pharmacology~~
Respiratory Pharmacology and Toxicology
Spring of every year. 2(2-0) P: PHM 819 or approval of department ~~RB: Some prior course work in physiology or pharmacology.~~ RB: (PHM 819) and Some prior course work in physiology or pharmacology. R: Open to graduate students in the Department of Pharmacology and Toxicology or in the Integrative Pharmacology Major or in the Pharmacology and Toxicology Major or in the Safety Pharmacology Certificate.
~~Integrative study of drugs, their mechanism of action, and their side effects in the treatment of major diseases and pathologies of the respiratory system.~~ Integrative study of drugs, their mechanism of action, and their side effects in the treatment of major diseases and pathologies and toxicities of the respiratory system.
~~Effective Spring 2010~~ Effective Spring 2021