**MICHIGAN STATE UNIVERSITY**

**Report of**

**THE UNIVERSITY COMMITTEE ON CURRICULUM**

**to the Faculty Senate**

**November 16, 2021**

*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

November 16, 2021

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.

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.

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.

2.

3.

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

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

PART II - NEW COURSES:1

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

PART III - COURSE CHANGES:1

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

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

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

P:

C:

R:

RB:

SA:

=

=

=

=

=

Prerequisite monitored in SIS Corequisite

Restriction

Recommended background Semester Alias

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

MICHIGAN STATE UNIVERSITY

November 16, 2021

TO:

Faculty Senate

FROM:

University Committee on Curriculum

SUBJECT:

New Academic Programs and Program Changes: New Courses and Course Changes

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

**COLLEGE OF AGRICULTURE AND NATURAL RESOURCES**

1.

Change the requirements for the **Bachelor of Science** degree **in Agribusiness Management** in the Department of Agricultural, Food, and Resource Economics.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Agribusiness Management** make the following changes:

(1)

In item 1., delete paragraph three:

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

(2)

In item 3. a. delete the following course:

MTH

124

Survey of Calculus I

3

Add the following course:

SCM

304

Survey of Supply Chain Management

3

(3)

Delete item 3.g. and reletter item 3.h. to 3.g.

Effective Spring 2022.

2.

Change the requirements for the **Bachelor of Science** degree in **Environmental Economics and Management** in the Department of Agricultural, Food, and Resource Economics.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Environmental Economics and Management** make the following changes:

(1)

In item 3. a. delete the following course:

MTH

124

Survey of Calculus I

3

Add the following course:

SCM

304

Survey of Supply Chain Management

3

(2)

Delete item 3. g. and reletter item 3.h. to 3.g.

Effective Spring 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

3.

Change the requirements for the **Bachelor of Science** degree **in Food Industry Management** in the Department of Agricultural, Food, and Resource Economics.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Food Industry Management** make the following changes:

(1)

In item 3. a. delete the following course:

MTH

124

Survey of Calculus I

3

Add the following course:

SCM

304

Survey of Supply Chain Management

3

(2)

Delete item 3. g. and reletter item 3.h. to 3.g.

Effective Spring 2022.

**COLLEGE OF ARTS AND LETTERS**

1.

Change the requirements for the **Bachelor of Arts** degree in **Art History and Visual Culture** in the Department of Art, Art History, and Design.

a.

Under the heading **Requirements for the Bachelor of Arts Degree in Art History and Visual Culture** make the following changes:

(1)

In item 2., change paragraph three to the following:

The completion of requirement 3. c. referenced below satisfied the College requirement for a cognate.

(2)

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

HA

262

Buddhist Art and Architecture Across Asia

3

(3)

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

HA

209

Ancient Art

3

(4)

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

HA

463

Japanese Art

4

(5)

Change item 3. c. to the following:

A cognate of 15 credits from outside the student’s major selected from areas such as museum studies, literature, a second language, material culture, or film studies. The cognate must be approved by the history of art advisor.

(6)

Delete item 3. d.

Effective Spring 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

2.

Change the requirements for the **Minor** in **Art History and Visual Culture** in the Department of Art, Art History, and Design.

a.

Under the heading **Requirements for the Minor in Art History and Visual Culture** make the following change:

(1)

In item 2., add the following course:

HA

262

Buddhist Art and Architecture Across Asia

3

Effective Spring 2022.

3.

Change the requirements for the **Bachelor of Fine Arts** degree in **Graphic Design** in the Department of Art, Art History, and Design.

a.

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

make the following changes:

(1)

In item 3. a. (2) in the *Electronic Art and Intermedia* area, add Studio Art 384 and Studio Art 385.

(2)

Replace item 3. a. (3) with the following:

Five of the following Graphic Design electives: Graphic Design 303, 462, 465, 466, 467,

468, and 491 (15 credits).

Effective Spring 2022.

**ELI BROAD COLLEGE OF BUSINESS**

1.

Change the requirements for the **Master of Business Administration** degree in the Eli Broad College of Business. The University Committee on Graduate Studies (UCGS) approved this request at their October 18, 2021 meeting.

*The concentrations in the Master of Business Administration degree are noted on the student’s academic record when the requirements for the degree have been completed.*

a.

Under the heading **Requirements for the Master of Business Administration Degree** make the following changes:

(1)

In item 1. a., delete the following courses:

MBA MBA MBA MBA MBA MBA MBA

820

821

822

830

831

832

846

Marketing Management

Introduction to Supply Chain Management Concepts Corporate Investment Decisions

Marketing Strategy Execution

Supply Chain Management Applications Corporate Financing Decisions

MBA Executive Lecture Series

1.5

1.5

1.5

1.5

1.5

1.5

1.0

Add the following courses:

MBA MBA MBA MBA

820

821

822

846

Marketing Management

Introduction to Supply Chain Management Concepts Corporate Investment Decisions

Executive Lecture Series

3

3

3

1 to 2

Effective Spring 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

2.

Change the name of the **Minor** in **Hospitality Real Estate** to **Real Estate** in the School of Hospitality Business. The University Committee on Undergraduate Education (UCUE) approved this request at its October 7, 2021 meeting.

Students admitted to the major prior to Summer 2022 will be awarded a Minor in Hospitality Real Estate.

Students admitted to the major Summer 2022 and forward will be awarded a Minor in Real Estate.

Effective Summer 2022.

3.

Change the requirements for the **Minor** in **Real Estate** in the School of Hospitality Business. The University Committee on Undergraduate Education (UCUE) approved this request at its October 7, 2021 meeting.

a.

Under the heading **Admission** make the following changes:

(1)

Change item 1. to ‘Completion of 28 credits’.

(2)

Delete item 2. d. (Statistics courses)

b.

Under the heading **Minor in Real Estate** replace the entire entry with the following:

Students must complete all of the following courses (16 or 18 credits):

HB

Or ITM HB FI

Or FI HB FI

Or HB HB

273

Hospitality Business Analytics

3

209

282

311

Business Analytics and Information Systems Real Estate Principles

Financial Management

3

3

3

320

470

355

Introduction to Finance

Real Estate Asset Management Financial Modeling

3

3

3

472

474

Real Estate Financial Modeling Real Estate Valuation

1

3

Effective Summer 2022.

**COLLEGE OF EDUCATION**

1.

Change the requirements for **Doctor of Education** degree in the College of Education. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Admission** delete the following statement from paragraph two:

, and submit scores earned on the Graduate Record Examination (GRE).

Effective Spring 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

2.

Change the requirements for **Educational Specialist** degrees in the College of Education. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

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

Scores for the Graduate Record Examination (GRE) General Test are required at the time the application for admission to an educational specialist program is submitted. This examination must have been taken no longer than five years prior to the application for admission. At the discretion of the department, applicants may be admitted on a provisional basis pending the required Graduate Record Examination General Test scores. Students thus admitted on a provisional basis must take the Graduate Record Examination General Test within a specified time period after enrollment in order to be considered for admission to regular status.

The Miller Analogies Test may be substituted for the Graduate Record Examination General Test by students in K–12 Educational Administration.

Effective Spring 2022.

3.

Change the requirements for **Doctor of Philosophy** degrees in the College of Education. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

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

Scores for the Graduate Record Examination General Test are required at the time the application for admission to a doctoral program is submitted. This examination must have been taken no longer than five years prior to the application for admission. At the discretion of the department, applicants may be admitted on a provisional basis pending the required Graduate Record Examination scores. Students who are thus admitted on a provisional basis must take the Graduate Record Examination General Test within a specified time period after enrollment in order to be considered for admission to regular status.

Effective Spring 2022.

4.

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 October 11, 2021 meeting.

a.

Under the heading **Admission**, delete the following:

In addition to general admission requirements, applicants applying for admission to the Teacher Certification Program with a major in special education must also complete one or two supervised pre-admission experiences totaling at least 42 hours in the area of learning disabilities. Prospective special education students are strongly encouraged to talk with special education faculty about the potential value of sites for securing the required experience. Applicants to the special education program must submit a form verifying completion of the experience with the completed application.

Only students

who have completed the required experience will be considered for admission.

Effective Spring 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

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5.

Change the requirements for the **Master of Arts** degree in **Special Education** in the Department of Counseling, Educational Psychology and Special Education. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Requirements for the Master of Arts Degree in Special Education** make the following changes:

(1)

Under the heading ***Learning Disabilities - Master of Arts*** delete item 1., and replace with the following:

1.

All of the following courses (21 credits):

CEP CEP

801A

802A

Collaboration and Consultation in Special Education Reflection and Inquiry in Teaching Special Education

I: Mild Impairments

Assessment of Students with Mild Disabilities Advanced Diagnosis and Remediation for Students

With Literacy Disabilities

Content-Area Instruction for Students with Mild Disabilities

Technology for Students with Disabilities

3

3

3

CEP CEP

803A

804B

3

CEP

842

3

3

3

CEP

850

Elective in TE or CEPSE

2.

One of the following courses (3 credits):

CEP TE

804A

846

Literacy Instruction for Students with Mild Disabilities Accommodating Differences in Literacy Learners

3

3

3.

Two of the following courses (6 credits):

CEP

840

Policies, Practices, and Perspectives in Special Education

3

CEP

841

Classroom and Behavior Management in the Inclusive Classroom

Applied Behavior Analysis for Teachers

3

3

CEP

844

(2)

Under the heading ***Learning Disabilities - Master of Arts with a Learning Disabilities Endorsement*** make the following changes:

(a)

Change the total credits from ‘36’ to 30’.

(b)

In item 1., delete the following courses:

CEP CEP

804A

894G

Literacy Instruction for Students with Mild Disabilities Special Education Practicum: Children and Youth

with Learning Disabilities Accommodating Differences in Literacy Learners

3

3

3

TE

846

(c)

Add the following:

2.

One of the following courses (3 credits):

CEP

802A

Reflective and Inquiry in Teaching Special Education I: Mild Impairments

Accommodating Differences in Literacy Learners

3

TE

846

3

Effective Spring 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

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6.

Eliminate the hybrid offering for the **Master of Arts** degree in **Higher Adult and Lifelong Education** in the Department of Educational Administration. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

Because of low enrollments, the HALE faculty have decided to no longer offer the Hybrid (2288) program for new students, as most choose to enroll into the existent fully online (6734) program. New admits are enrolling under the 6734 (online) program code. Only 5 students have enrolled in the 2288 program over the past 5 years, with the last enrolled student graduating Spring 2021.

Effective Spring 2022.

**JAMES MADISON COLLEGE**

1.

Change the requirements for the **Bachelor of Arts** degree in **James Madison College [Comparative Cultures and Politics]**. The Teacher Education Council (TEC) approved this request at its October 11, 2021 meeting.

a.

Under the heading **Requirements for the Bachelor of Arts Degree in James Madison College**

make the following changes:

(1)

Under the heading ***Comparative Cultures and Politics*** add the following course in item

1. b. under both the *Comparative Studies* group and *Transnational Studies* group:

MC

338

Environmental Justice and Global Change

4

Effective Spring 2022.

**COLLEGE OF MUSIC**

1.

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 October 18, 2021 meeting.

a.

Under the heading **Requirements for the Doctor of Musical Arts Degree in Collaborative Piano**

replace item 5. a. and b. with the following:

a.

Complete 24 credits of Music 996 Doctoral Recital Performance. These credits must include at least six semesters of instruction in collaborative piano, 3 credits of instruction in applied piano (1 credit for each of three semesters), 4 credits of instruction in piano performance (1 credit for each of four semesters), 2 credits of instruction in chamber music (1 credit for each of two semesters), and 4 credits of collaborative performance of vocal repertoire (2 credits for each of two semesters). These requirements may be met concurrently.

b.

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, vocal, or chamber 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 2022.

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

2.

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 October 18, 2021 meeting.

a.

Under the heading **Requirements for the Doctor of Musical Arts Degree in Music Composition**

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

Effective Spring 2022.

3.

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 October 18, 2021 meeting.

a.

Under the heading **Requirements for the Master of Music Degree in Music Performance**

replace the entire entry with the following:

The student must meet the requirements for one of the following three broad areas of music performance: instrumental music, instrumental specialist, or vocal music.

*Instrumental Music*

The student must meet the requirements for one of the following five major areas of instrumental music: piano, brass instruments, stringed instruments, woodwind instruments, or percussion instruments:

1.

**Piano**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete the following course (14 credits):

MUS

896

Master's Performance

14

These credits must include at least 6 credits of instruction in piano (1 to 2 credits for each of four semesters), 4 credits of piano performance (1

credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 4 to 6 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Perform a piano 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.

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.

b.

c.

d.

e.

2.

**Brass Instruments**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete the following course (14 credits):

MUS

896

Master's Performance

14

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These credits must include at least 6 credits of instruction in the major instrument (1 to 2 credits for each of four semesters), 4 credits of major ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

Complete 6 credits in musicology at the 400-level or above and two courses in musicology (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 4 to 6 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Perform a recital on the student’s major 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.

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.

b.

c.

d.

e.

3.

**Stringed Instruments**

The program is available only under Plan B (without thesis). A total of 30 credits is

required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete the following course (14 credits):

MUS

896

Master's Performance

14

These credits must include at least 6 credits of instruction in the major

instrument (1 to 2 credits for each of four semesters), 4 credits of major

ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters). Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 4 to 6 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Perform a recital on the student’s major 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 record.

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.

b.

c.

d.

e.

4.

**Woodwind Instruments**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete the following course (14 credits):

MUS

896

Master's Performance

14

These credits must include at least 6 credits of instruction in the major instrument (1 to 2 credits for each of four semesters), 4 credits of major ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

b.

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 4 to 6 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Perform a recital on the student’s major 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

c.

d.

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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.

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.

e.

5.

**Percussion Instruments**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete the following course (14 credits):

MUS

896

Master's Performance

14

These credits must include at least 6 credits of instruction in the major instrument (1 to 2 credits for each of four semesters), 4 credits of major ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

b.

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 4 to 6 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Perform a percussion 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.

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.

c.

d.

e.

*Instrumental Specialist*

The student must meet the requirements for one of the following three major specialties: brass instruments specialist, stringed instruments specialist, or woodwind instruments specialist:

1.

**Brass Instruments Specialist**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete both of the following courses (16 credits):

MUS MUS

847

896

Secondary or Specialist Emphasis: Brass Master's Performance

2

14

Each of the 2 credits of MUS 847 is associated with instruction in one of the student's two required secondary instruments. The 14 credits of MUS 896 must include at least 6 credits of instruction in the major instrument (1 to 2 credits for each of four semesters), 4 credits of major ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

b.

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 2 to 4 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Present a performance on each of the student's two required secondary instruments. The performance must be acceptable to a committee of faculty in the area of brass instruments.

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

c.

d.

e.

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

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.

f.

2.

**Stringed Instruments Specialist**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete both of the following courses (15 credits):

MUS MUS

846

896

Secondary or Specialist Emphasis: String Master's Performance

1

14

The credit of MUS 846 is associated with instruction in the student's required secondary instrument. The 14 credits of MUS 896 must include at least 6 credits of instruction in the major instrument (1 to 2 credits for each of four semesters), 4 credits of major ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

b.

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 3 to 5 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Present a performance on the student's required secondary instrument. The performance must be acceptable to a committee of faculty in the area of stringed instruments.

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.

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.

c.

d.

e.

f.

3.

**Woodwind Instruments Specialist**

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

a.

Complete both of the following courses (17 credits):

MUS MUS

848

896

Secondary or Specialist Emphasis: Woodwind Master's Performance

3

14

Each of the 3 credits of MUS 848 is associated with instruction in one of the student's three required secondary instruments. The 14 credits of MUS 896 must include at least 6 credits of instruction in the major instrument (1 to 2 credits for each of four semesters), 4 credits of major ensemble (1 credit for each of four semesters), and 4 credits of instruction in chamber music (1 credit for each of four semesters).

b.

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 1 to 3 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Present a performance on each of the student's three required secondary instruments. Each of the three performances must be acceptable to a committee of faculty in the area of woodwind instruments.

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

c.

d.

e.

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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.

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.

f.

*Vocal Music*

The program is available only under Plan B (without thesis). A total of 30 credits is required for the degree. The student's program of study must be approved by the student's academic advisor. The student must meet the requirements specified below:

CREDITS

1.

Complete both of the following courses (11 credits):

MUS MUS

435

896

Opera Theatre Master's Performance

1

10

The credits of MUS 896 must include at least 8 credits of instruction in voice (2

credits for each of four semesters) and 2 credits of major ensemble (1 credit each of two semesters)

Complete 6 credits in musicology at the 400-level or above and two courses in music theory (4 to 6 credits) at the 400-level or above. (10 to 12 credits)

Complete 7 to 9 credits of elective courses in music at the 400-level or above, exclusive of additional credits in MUS 896.

Complete one semester of study each in French, German, and Italian. Credits in courses in a foreign language may not be counted toward the requirements for the Master of Music degree. Courses completed as part of an undergraduate degree program may be used to satisfy this requirement.

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.

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.

2.

3.

4.

5.

6.

b.

Delete the section **Academic Standards**.

Effective Fall 2022.

4.

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 October 18, 2021 meeting.

a.

Under the heading **Requirements for the Doctor of Musical Arts Degree in Music Performance**

replace items 4. a. and b. with the following:

a.

Complete 24 credits of Music 996 Doctoral Performance.

1)

For those students whose major instrument is piano, these credits must include

at least six semesters of instruction in applied piano, four semesters of instruction in

chamber music (1 credit for each of four semesters), and four semesters of instruction in piano performance (1 credit for each of four semesters). These requirements may be met concurrently.

For those students whose major instrument is a stringed, brass, woodwind or percussion instrument, these credits must include at least six semesters of instruction in the major instrument, six semesters of instruction in band or orchestra (1 credit for each for six semesters), and four semesters of instruction in chamber music (1 credit

2)

each of four semesters). These requirements may be met concurrently.

For those students whose major instrument is voice, these credits must include at least six semesters of instruction in voice and two semesters of instruction in opera theater, chamber music, or choir (1-2 credits for each).

3)

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b.

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. For those students whose major instrument is a stringed, woodwind, brass or percussion instrument, a mock audition for a professional orchestra or wind ensemble, as outlined in the Graduate Handbook, may substitute for one solo recital with the prior approval of the applied teacher and the area chair. For those students whose major instrument is voice, a significant opera role, as determined by the faculty of the voice area, may substitute for the chamber music recital. A second significant opera role may substitute for one of the solo recitals. A recording of each of the four recitals, mock auditions, or opera roles 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 2022.

**COLLEGE OF NATURAL SCIENCE**

1.

Change the requirements for the **Bachelor of Science** degree in **Human Biology** in the College of Natural Science.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Human Biology** make the following changes:

(1)

Delete item 3. a. (4).

(2)

Add the following item 3. g. (3):

PHY PHY

221

222

Studio Physics for Life Scientists I Studio Physics for Life Scientists II

4

4

(3)

Renumber items 3. g. (3), (4), and (5) to 3. g. (4), (5), and (6) respectively.

(4)

In item 3. i., delete the following courses:

IBIO NSC NSC NSC

483

496

497

498

Environmental Physiology (W) Directed Study in Human Biology Internship in Human Biology Research in Human Biology

4

1 to 3

1 to 3

1 to 3

Effective Spring 2022.

2.

Change the requirements for the **Bachelor of Science** degree in **Environmental Biology/Microbiology** in the Department of Microbiology and Molecular Genetics.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Environmental Biology/Microbiology** replace item 3. with the following:

a.

The following courses outside the Department of Microbiology and Molecular Genetics (61 to 70 credits):

(1)

One of the following, either a. or b. (4 or 6 credits):

(a)

BMB BMB BMB

461

462

401

Advanced Biochemistry I Advanced Biochemistry II Comprehensive Biochemistry

3

3

4

(b)

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(2)

All of the following courses (18 credits):

CSS ENE

210

280

Fundamentals of Soil Science Principles of Environmental Engineering

and Science

3

3

4

4

3

1

GLG GLG IBIO IBIO

201

421

355

355L

The Dynamic Earth Environmental Geochemistry Ecology

Ecology Laboratory (W)

(3)

One of the following groups of courses (6 or 9 credits):

(a)

BS BS LB LB BS BS

161

162

144

145

181H

182H

Cell and Molecular Biology Organismal and Population Biology Biology I: Organismal Biology Biology II: Cell and Molecular Biology Honors Cell and Molecular Biology Honors Organismal and Population

Biology

3

3

4

5

3

(b)

(c)

3

(4)

One of the following courses (2 credits):

BS BS

171

172

Cell and Molecular Biology Laboratory Organismal and Population Biology

Laboratory

Honors Cell and Molecular Biology Laboratory

Honors Organismal and Population Biology Laboratory

2

2

BS

191H

2

BS

192H

2

This requirement is waived for students who selected item

(3) (b) above

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

(5)

(a)

CEM CEM CEM CEM LB LB LB LB

141

142

161

162

171

172

171L

172L

General Chemistry

General and Inorganic Chemistry Chemistry Laboratory I Chemistry Laboratory II Principles of Chemistry I Principles of Chemistry II

Introductory Chemistry Laboratory I Principles of Chemistry II –

Reactivity Laboratory General and Descriptive Chemistry Principles of Chemistry

Chemistry Laboratory I Chemistry Laboratory II Honors Chemistry I Honors Chemistry II

Honors Chemistry Laboratory

4

3

1

1

4

4

1

(b)

1

4

3

1

1

4

4

2

(c)

CEM CEM CEM CEM CEM CEM CEM

151

152

161

162

181H

182H

185H

(d)

(6)

One of the following groups of courses (8 credits):

(a)

CEM CEM CEM CEM CEM CEM

251

252

255

351

352

355

Organic Chemistry I Organic Chemistry II

Organic Chemistry Laboratory Organic Chemistry I

Organic Chemistry II

Organic Chemistry Laboratory I

3

3

2

3

3

2

(b)

(7)

One of the following (3 or 4 credits):

MTH LB MTH

132

118

152H

Calculus I Calculus I

Honors Calculus I

3

4

3

(8)

One of the following (3 credits):

STT STT MTH

231

421

133

Statistics for Scientists

3

3

3

Statistics I Calculus II

(9)

One of the following groups of courses (8 or 10 credits)

(a)

PHY PHY PHY PHY PHY

231

232

251

252

241

Introductory Physics I Introductory Physics II Introductory Physics Laboratory I Introductory Physics Laboratory II Physics for Cellular and Molecular

3

3

1

1

(b)

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Biologists I

Physics for Cellular and Molecular Biologists II

Introductory Physics Laboratory I Introductory Physics Laboratory II Physics for Scientists and

Engineers I Physics for Scientists and

Engineers II

Physics Laboratory for Scientists, I Physics Laboratory for Scientists, II Physics I

Physics II

Honors Physics I-Mechanics Honors Physics II-

Electromagnetism Physics Laboratory for Scientists, I Physics Laboratory for Scientists, II

4

PHY

242

4

1

1

PHY PHY PHY

251

252

183

(c)

4

PHY

184

4

1

1

4

4

4

PHY PHY LB LB PHY PHY

191

192

273

274

193H

294H

(d)

(e)

4

1

1

PHY PHY

191

192

b.

The following courses in the Department of Microbiology and Molecular Genetics (19 credits):

(1)

All of the following courses (13 credits):

MMG MMG

301

302

Introductory Microbiology

Introductory Laboratory for General and Allied Health Microbiology

3

1

3

3

3

MMG MMG MMG

421

425

431

Prokaryotic Cell Physiology Microbial Ecology Microbial Genetics

(2)

One of the following courses (3 credits):

MMG MMG

408

494

Advanced Microbiology Laboratory (W)

3

Summer Undergraduate Research Institute in Genomics (W)

3

(3)

One of the following two options (3 credits):

(a)

MMG

491

Current Topics in Microbiology and Molecular Genetics

3

1

(b)

MMG

492

Undergraduate Research Seminar

One of the following courses:

MMG MMG MMG

499

499H

Undergraduate Research

2

2

Honors Research

(c)

493 Professional Internship in Microbiology and Molecular Genetics

3

The completion of either of these three options fulfills the department’s capstone course requirement.

One course from two of the following areas (6 to 8 credits):

c.

(1)

(2)

CSS FOR PLB FSC GEO GEO

455

340

402

440

206

221

Pollutants in the Soil Environment Forest Ecology

Biology of Fungi Food Microbiology Physical Geography

Introduction to Geographic Information

3

3

4

3

3

3

(3)

(4)

(5)

(6)

(7)

GLG MMG FOR IBIO FW FW MMG PLB IBIO

435

445

466

446

420

472

433

400

357

Geomicrobiology

Microbial Biotechnology (W) Natural Resource Policy

Environmental Issues and Public Policy Stream Ecology

Limnology Microbial Genomics

Introduction to Bioinformatics Global Change Biology (W)

4

3

3

3

3

3

3

3

3

(8)

(9)

(10)

Effective Spring 2022.

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3.

Change the requirements in the **Bachelor of Science** degree in **Genomics and Molecular Genetics** in the Department of Microbiology and Molecular Genetics.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Microbiology and Molecular Genetics** make the following changes:

(1)

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

CEM

186H

Honors Chemistry Laboratory II

2

(2)

In item 3. a. (6) delete the following course:

ZOL

341

Fundamental Genetics

4

Add the following course:

IBIO

341

Fundamental Genetics

4

(3)

Replace item 3. a. (7) with the following:

One of the following groups of courses (8 to 10 credits)

(a)

PHY PHY PHY PHY LB LB PHY PHY PHY PHY PHY PHY PHY PHY PHY

231

232

251

252

273

274

183

184

191

192

193H

294H

191

192

241

Introductory Physics I Introductory Physics II Introductory Physics Laboratory I Introductory Physics Laboratory II Physics I

Physics II

Physics for Scientists and Engineers I Physics for Scientists and Engineers II Physics Laboratory for Scientists, I Physics Laboratory for Scientists, II Honors Physics I – Mechanics

Honors Physics II – Electromagnetism Physics Laboratory for Scientists, I Physics Laboratory for Scientists, II Physics for Cellular and Molecular

Biologists I

Physics for Cellular and Molecular Biologists II

Introductory Physics Laboratory I Introductory Physics Laboratory II

3

3

1

1

4

4

4

4

1

1

4

4

1

1

(b)

(c)

(d)

(e)

4

PHY

242

4

1

1

PHY PHY

251

252

(4)

In item 3. b. make the following changes:

(a)

Change the total credits from ‘19’ to ’19 to 20’.

(b)

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

(c)

In item (2) change the credits of ‘MMG 334’ from ‘3’ to ‘4’.

(d)

In item (2) add the following course:

MMG

494

Summer Undergraduate Research Institute in Genomics (W)

3

(5)

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

One of the following three options (3 credits):

(a)

MMG

491

Current Topics in Microbiology and Molecular Genetics

3

1

(b)

MMG

492

Undergraduate Research Seminar

One of the following courses:

MMG MMG

499

499H

Undergraduate Research Honors Research

2

2

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(c)

MMG

493

Professional Internship in Microbiology and Microbiology and Molecular Genetics

3

The completion of Microbiology 491, 493; or Microbiology 492 and 499 or 499H, fulfills the department’s capstone course requirement.

(6)

In item 3. c. delete the following courses:

CSS PLB ZOL

441

400

445

Plant Breeding and Biotechnology Introduction to Bioinformatics Evolution (W)

3

3

3

Add the following courses:

ANS CMSE CMSE CMSE CMSE CSS

404

201

202

410

411

451

Introduction to Quantitative Genetics Computational Modeling and Data Analysis I Computational Modeling and Data Analysis II Bioinformatics and Computational Biology Computational Medicine

Biotechnology Applications for Plant Breeding and Genetics

Evolution (W)

3

4

4

3

3

3

3

IBIO

445

Effective Spring 2022.

4.

Change the requirements in the **Bachelor of Science** degree in **Microbiology** in the Department of Microbiology and Molecular Genetics.

a.

Under the heading **Requirements for the Bachelor of Science Degree in Microbiology** make the following changes:

(1)

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

CEM

186H

Honors Chemistry Laboratory II

2

(2)

Add item 3. a. (6) (e):

PHY PHY PHY PHY

241

242

251

252

Physics for Cellular and Molecular Biologists I Physics for Cellular and Molecular Biologists II Introductory Physics Laboratory I

Introductory Physics Laboratory II

4

4

1

1

(3)

In item 3. b. (1) change the total credits from ‘13’ to ‘10’ and delete the following course:

MMG

408

Advanced Microbiology Laboratory (W)

3

(4)

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

(5)

Add a new item 3. b. (2):

One of the following courses (3 credits):

MMG MMG

408

494

Advanced Microbiology Laboratory (W)

Summer Undergraduate Research Institute in Genomics (W)

3

3

(6)

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

One of the following, either (a), (b), or (c) (3 credits):

(a)

MMG

491

Current Topics in Microbiology and Molecular Genetics

3

1

(b)

MMG

492

Undergraduate Research Seminar

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and

One of the following courses:

MMG MMG MMG

499

499H

493

Undergraduate Research Honors Research

Professional Internship in Microbiology and Molecular Genetics

2

2

(c)

3

The completion of Microbiology 491, 493, or Microbiology 492 and 499 or 499H, fulfills the department's capstone course requirement.

(7)

In item 3. c. delete the following course:

MMG

463

Medical Microbiology

3

Add the following courses:

MMG MMG

365

465

Medical Microbiology

Advanced Medical Microbiology

3

3

Effective Spring 2022.

5.

Change the requirements in the **Doctor of Philosophy** degree in **Microbiology and Molecular Genetics** in the Department of Microbiology and Molecular Genetics. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Admission** replace the entire entry with the following:

Admission to the Doctor of Philosophy degree in Microbiology and Molecular Genetics is through the BioMolecular Science Gateway – First Year (BMS). The successful applicant will typically have: a bachelor’s degree (four-year or equivalent) or Master of Science degree that includes course work that demonstrates proficiency in math and science; a grade point average of 3.50 or above; significant research experience equivalent to a minimum of one full-time summer research experience or four semesters of part-time research experience; and strong letters of reference.

b.

Under the heading **Requirements for the Doctor of Philosophy Degree in Microbiology and Molecular Genetics** replace the entire entry with the following:

The student must:

1.

Complete a minimum of four graduate courses (excluding topics and seminar courses) covering the areas of genetics, microbiology, and biochemistry. At least two of these courses must be offered by the Department of Microbiology and Molecular Genetics.

a.

One course must focus on Molecular Biology or Genetics and include one of the following courses or an approved equivalent as approved by the Director of Graduate Studies.

BMB MMG MMG

801

833

835

Molecular Biology Microbial Genetics

Eukaryotic Molecular Genetics

3

3

3

b.

One course must focus on Cell Biology or Cell Physiology and include one of the following courses or an approved equivalent as approved by the Director of Graduate Studies.

BMB

802

Metabolic Regulation and Signal Transduction

Integrative Microbial Biology Cell Structure and Function

3

4

3

MMG MMG

801

825

c.

Other approved course electives include:

BMB BMB MMG MMG MMG

803

805

813

851

861

Protein Structure and Function

Protein Structure, Design, and Mechanism

2

3

3

3

3

Molecular Virology Immunology

Advanced Microbial Pathogenesis

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2.

Complete three special topics graduate seminar courses (MMG 803, MMG 991 or other departmental seminar courses as approved by the

Director of Graduate Studies chosen to increase the breadth and depth of knowledge in your field.

Pass a comprehensive examination that includes a written research proposal, public seminar and oral examination with the student's guidance committee.

Complete 24 credits of MMG 999 Doctoral Dissertation Research.

Submit a dissertation and a publishable manuscript based on original research and representing a new and significant contribution to knowledge.

3.

4.

5.

All doctoral students in microbiology and molecular genetics are required to participate in laboratory teaching through enrollment of 1 credit of MMG 892 and are expected to attend departmental seminars through enrollment in 4 credits of MMG 892. In addition, all students must participate in the Work in Progress (WiPs) seminar series.

Effective Spring 2022.

6.

Change the requirements for the **Doctor of Philosophy** degree in **Plant Biology** in the Department of Plant Biology. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Requirements for the Doctor of Philosophy Degree in Plant Biology** make the following changes:

(1)

In item 1. a. delete the following course:

PLB

804

Frontiers in Plant Biology

2

(2)

Replace item 1. c. delete the following courses:

ZOL ZOL

891

895

Current Topics in Ecology and Evolution Seminar

1

1

Add the following courses:

IBIO IBIO

891

895

Current Topics in Ecology and Evolution Seminar

1

1

Effective Spring 2022.

**COLLEGE OF NURSING**

1.

Change the requirements for the **Doctor of Philosophy** degree in **Nursing**. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Requirements for the Doctor of Philosophy Degree in Nursing** make the following changes:

(1)

In item 1. change the total credits from ’66’ to ’65’.

(2)

Under the **Course Requirements** in item 3., change the credits from ‘3’ to ‘1 to 3’.

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**COLLEGE OF OSTEOPATHIC MEDICINE**

1.

Change the requirements for the **Professional Program in Osteopathic Medicine** leading to the Doctor of Osteopathic Medicine degree the College of Osteopathic Medicine. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Requirements for the Doctor of Osteopathic Medicine Degree** make the following changes:

(1)

Under the heading **PreClerkship Curriculum** make the following changes:

(a)

Change the total credits from ‘98’ to ‘100’ and add the following course:

OST

559

Pediatrics IV

1

(b)

Delete the following course:

OST

580

Respiratory System

6

Add the following course:

OST

580

Respiratory System

7

(2)

Under the heading **Clerkship Curriculum** make the following changes:

(a)

Under the heading *Required Clinical Clerkship* ***Core*** *Rotation Courses* change ‘OST 653’ to ‘OSS 653’.

(b)

Under the heading *Required clinical elective clerkship rotation courses*

add the following courses:

OST OST OST

622

623

624

Addiction Medicine Board Preparation Essentials in Diabetes

3

1 to 6

3

Effective Spring 2022.

**COLLEGE OF SOCIAL SCIENCE**

1.

Change the requirements in the **Graduate Specialization** in **International Development** in the College of Social Science. The University Committee on Graduate Studies (UCGS) approved this request at its October 18, 2021 meeting.

a.

Under the heading **Requirements for the Graduate Specialization in International Development** replace the entire entry with the following:

Any course that was used to satisfy the requirements for the undergraduate Specialization in International Development may not be used to satisfy the requirements for the Graduate Specialization in International Development. The student’s program of study must be approved by the graduate student advisor for international development and must meet the requirements specified below.

The student must complete 12 credits as outlined below:

(1)

Complete two of the Core Courses listed below. Only one of the courses may be at the 400-level (6 credits).

Complete at least two additional courses of at least 3 credits each, which are relevant to international development, either from the Core Courses listed below or from applicable courses selected in consultation with the international development advisor. (6 credits)

(2)

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*Core Courses*:

AFRE AFRE ANP CSUS CSUS

817

861

436

826

848

Political Economy of Agricultural Trade Policy Agriculture in Economic Development

Globalization and Justice: Issues in Political and Legal Anthropology International Development Theory and Practice

Community-Based Natural Resource Management in International Development

Comparative International Education Policy

International and Comparative Issues in Higher and Adult Education Issues in the Economics of Developing Countries

International Trade: Theory and Commercial Policy Human Dimensions of Forest Carbon Management Forest Carbon Policy, Economics and Finance

The World System of Cities Seminar in Human Geography Ethics and Development Migration and Social Change

Comparative Perspectives on Curriculum, Instruction, and Teacher Education

Women and Change in Developing Countries

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

EAD EAD EC EC FOR FOR GEO GEO PHL SOC TE

947

972

410

840

833

835

816

872

452

852

923

3

3

WS

403

Effective Spring 2022.

2.

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

a.

Under the heading **Requirements for the Bachelor of Arts Degree in Economic Geography**

make the following changes:

(1)

In item 3., change the total credits from ’42 or 43’ to ’43 or 44’.

(2)

In item 3. d., change the total credits from ‘6’ to ‘7’ and add the following course:

GEO

221L

Introduction to Geographic Information Laboratory

1

(3)

In item 3. e., add the following courses:

GEO GEO GEO

410

436

498

Geography of Food and Agriculture Spatial Analysis of Populations Internship in Geography

3

3

3

(4)

In item 3. h., delete the following courses:

AFRE EC UP UP

320

306

314

353

Environmental Economics Comparative Economic Systems

Methods for Investigation of Urban Systems Land Use Planning

3

3

4

4

Add the following courses:

AFRE AFRE CSUS EC UP UP UP

265

360

273

202

458

478

488

Ecological Economics Environmental Economics Introduction to Travel and Tourism Introduction to Macroeconomics

Housing and Real Estate Development Urban Transportation Planning

The Sustainable and Climate Resilient City

3

3

3

3

3

3

3

Effective Fall 2022.

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3.

Change the requirements for the **Minor** in **Geographic Information Science** in the Department of Geography, Environment, and Spatial Sciences.

a.

Under the heading **Requirements for the Minor in Geographic Information Science** make the following changes:

(1)

Delete item 2.

(2)

Renumber item 3. to item 2. and make the following changes:

(a)

Change the total credits from ‘14’ to ‘17’.

(b)

Delete the following courses:

GEO

419

Application of Geographic Information Systems to Natural Resources Management

Cartographic Design and Production Digital Terrain Analysis

4

4

4

GEO GEO

423

428

Add the following courses:

GEO GEO GEO GEO GEO

326

428

429

490

498

Cartographic Design and Production Digital Terrain Analysis Geoprocessing

Independent Study Internship in Geography

4

3

3

3

3

(3)

Replace the note in item 2. with the following:

Both GEO 490 and 498 must include geographic information science, remote sensing, or cartography content to fulfill this requirement. Prior to enrolling in a section of either of these courses, the student must obtain approval from an undergraduate academic advisor in the Department of Geography, Environment, and Spatial Sciences.

Effective Fall 2022.

4.

Change the requirements for the **Bachelor of Arts** degree in **History Education**. The Teacher Education Council (TEC) approved this request at its October 11, 2021 meeting.

a.

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

(1)

In item 6. delete the following course:

TE

250

Human Diversity, Power and Opportunity in Social Institutions

3

Add the following course:

TE

101

Social Foundations in Justice and Equity In Education

3

Effective Spring 2022.

Report of the UCC to the Faculty Senate - 25

PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

**COLLEGE OF VETERINARY MEDICINE**

1.

Change the requirements for the **Bachelor of Science** degree in **Veterinary Nursing** in the College of Veterinary Medicine.

a.

Under the heading **Admission**, in paragraph four, change item 1. to the following:

Completion of at least 28 credits of the University graduation requirements or transfer equivalents including:

b.

Under the heading **Requirements for the Bachelor of Science Degree in Veterinary Nursing**

make the following changes:

(1)

In item 1., change paragraph three to the following:

The University’s Tier II writing requirement for the Veterinary Nursing major is met by completing the following courses: Veterinary Medicine 410 and 412. Those courses are referenced in items 2. a. below.

(2)

In item 2., change the total credits from ‘102 credits’ to ’90 to 97 credits’.

(3)

In item 2. a. change the total credits from ’72 credits’ to ’75 credits’.

(4)

In item 2. a., add the following to the existent list of courses:

and

One of the following courses (3 credits)

VM VM

414

415

Veterinary Nursing Clerkship in Equine Medicine and Surgery

3

Veterinary Nursing Clerkship in Food Animal and Equine Medicine and Surgery

Veterinary Nursing Clerkship in Emergency Medicine Veterinary Nursing Clerkship in Cardiology Veterinary Nursing Clerkship in Neurology Veterinary Nursing Clerkship in Ophthalmology Veterinary Nursing Clerkship in Critical Care Veterinary Nursing Clerkship in Companion Animal

Diagnostic Ultrasound

Veterinary Nursing Clerkship in Large Animal Anesthesia Veterinary Nursing Clerkship in Food Animal Medicine Veterinary Nursing Clerkship in Clinical Pathology Veterinary Nursing Clerkship in Necropsy

Veterinary Nursing Clerkship in Biomedical Research Veterinary Nursing Clerkship in Zoo and Wildlife Medicine Veterinary Nursing Clerkship in Clinical Parasitology Veterinary Nursing Clerkship in Special Problems

3

3

3

3

3

3

VM VM VM VM VM VM

450

451

452

453

454

458

3

3

3

3

3

3

3

3

3

VM VM VM VM VM VM VM VM

466

470

480

482

483

484

486

490

(5)

In item 2. b., renumber item (3) to item (4).

(6)

Add the following item (3) in item 2. b.:

(3)

MTH MTH

and

103A

103B

College Algebra I College Algebra II

3

3

One of the following:

MTH MTH MTH MTH STT STT

101

102

114

201

200

201

Quantitative Literacy I

3

3

3

3

3

4

Quantitative Literacy II

Trigonometry

Elementary Mathematics for Teachers I Statistical Methods

Statistical Methods

(7)

Replace item 2. c. with the following:

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

One of the following options, 15 credits from Elective Group 1 or 15 credits from Elective Group 2. Courses used to satisfy requirement 2. a. above may not be used to fulfill this requirement.

(1)

**Veterinary Nursing Elective Group 1**:

VM

414

Veterinary Nursing Clerkship in Equine Medicine and Surgery

Veterinary Nursing Clerkship in Food Animal and Equine Medicine and Surgery

Veterinary Nursing Clerkship in Emergency Medicine

Veterinary Nursing Clerkship in Cardiology Veterinary Nursing Clerkship in Neurology Veterinary Nursing Clerkship in Ophthalmology Veterinary Nursing Clerkship in Critical Care Veterinary Nursing Clerkship in Companion

Animal Diagnostic Ultrasound Veterinary Nursing Clerkship in Large Animal

Anesthesia

Veterinary Nursing Clerkship in Food Animal Medicine

Veterinary Nursing Clerkship in Clinical Pathology Veterinary Nursing Clerkship in Necropsy Veterinary Nursing Clerkship in Biomedical

Research

Veterinary Nursing Clerkship in Zoo and Wildlife Medicine

Veterinary Nursing Clerkship in Clinical Parasitology Veterinary Nursing Clerkship in Special Problems

3 to 6

VM

415

3 to 6

VM

450

3

3

3

3

3

VM VM VM VM VM

451

452

453

454

458

3

VM

466

3

VM

470

3 to 6

3

3

VM VM VM

480

482

483

3 to 12

VM

484

3 to 12

3

3 to 12

VM VM

486

490

(2)

**Veterinary Nursing Elective Group 2**. Complete 15 credits in courses from one of the following concentrations. All course selections must be approved by the Veterinary Nursing Program.

**Business Communication**

ACC AFRE AFRE AFRE AFRE AFRE AFRE AFRE

230

100

130

203

222

232

240

315

Survey of Accounting Concepts

Decision-making in the Agri-Food System Farm Management I

Data Analysis for the Agri-Food system Agribusiness and Food Industry Sales Commodity Marketing I

Food Product Marketing

Labor and Personnel Management in Agri-Food System

Global Agri-Food Industries and Markets Financial Management in the Agri-Food System Human Communication

An Introduction to Interpersonal Communication Introduction to Organizational Communication Introduction to Microeconomics

Introduction to Macroeconomics Student Leadership Training Introduction to Finance

Introduction to Organizational Leadership Applied Organizational Leadership

3

3

3

3

3

3

3

3

3

3

3

3

4

3

3

3

3

3

3

AFRE AFRE COM COM COM EC EC EAD FI HRLR HRLR

327

435

100

225

240

201

202

315

320

211

311

**General Animal Science**

ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS

110

110L

134

200C

200E

201

201L

210

211

222

234

Introductory Animal Agriculture Introductory Animal Agriculture Laboratory Dairy Production I

3

1

3

2

1

3

1

3

3

3

3

Dairy Cattle Genetics and Evaluation Introductory Animal Welfare Assessment Animal Products

Animal Products Laboratory

Introduction to Disciplines in Animal Agriculture Animal and Product Evaluation

Introductory Beef Cattle Management Dairy Production II

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS

252

262

272

305

305L

307

309

313

314

334

401

407

413

418

422

425

427

442

445

455

472

480

483

Introduction to Management of Avian Species Introductory Sheep Management

Introductory Swine Management Applied Animal Behavior

Applied Animal Behavior Laboratory Animal Reproduction

Animal Health and Disease Management Principles of Animal Feeding and Nutrition (W) Genetic Improvement of Domestic Animals (W) Dairy Management I

Ethical Issues in Animal Agriculture Food and Animal Toxicology

Non-Ruminant Nutrition

Animal Agriculture and the Environment Advanced Beef Cattle Feedlot Management Animal Biotechnology

Environmental Toxicology and Society Advanced Horse Management

Equine Exercise Physiology Avian Physiology

Advanced Swine Management

Animal Systems in International Development Ruminant Nutrition

3

3

3

3

1

3

3

4

4

3

1

3

4

3

3

3

3

3

4

4

3

3

3

**General Zoo and Wildlife**

EPI

390

Disease in Society: Introduction to Epidemiology and Public Health

Fundamentals of Fisheries and Wildlife Ecology and Management

Conservation and Management of Marine Resources

Introduction to Science, Technology, the Environment and Public Policy

Ecological Problem Solving

Wildlife Research and Management Techniques Principles of Fish and Wildlife Disease

Principles of Fish and Wildlife Disease Laboratory Population Analysis and Management Conservation Biology

4

FW

101

3

FW

110

3

FW

181

3

3

3

3

1

4

3

3

1 to 3

3

4

3

1

3

4

4

3

3

FW FW FW FW FW FW FW FW IBIO IBIO IBIO IBIO IBIO IBIO IBIO IBIO NEU

364

413

423

423L

424

444

449

491

313

341

355

355L

369

408

413

415

300

Wildlife Policy

Special Topics in Fisheries and Wildlife Animal Behavior

Fundamental Genetics Ecology

Ecology Laboratory (W)

Introduction to Zoo and Aquarium Science Histology

Laboratory in Behavioral Neuroscience (W) Ecological Aspects of Animal Behavior (W) Neurobiology

**Sustainability and Policy**

AFRE AFRE ANR ANS

100

206

250

124

Decision-making in the Agri-Food System

3

3

3

World Food, Population and Poverty

Global Issues in Agriculture and Natural Resources Introduction to Sustainable Agriculture and

Food Systems

Animal Agriculture and the Environment Sustainable Agriculture and Food Systems:

Integration and Synthesis

Animal Systems in International Development Introduction to Crop Science

Issues in Food and Agriculture Introduction to Sustainable Agriculture and

Food Systems

New Horizons in Biotechnology

2

3

ANS ANS

418

424

3

3

3

3

ANS CSS CSS CSS

480

101

120

124

1

2

CSS

222

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PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

EC EC EPI

201

202

390

Introduction to Microeconomics Introduction to Macroeconomics

Disease in Society: Introduction to Epidemiology and Public Health

Human Dimensions of Fisheries and Wildlife Management (W)

Biodiversity Conservation Policy and Practice Environmental Issues and Public Policy Organic Farming Principles and Practices Nature of Science

International Development and Change Introduction to Environmental Sociology

3

3

4

FW

434

3

3

3

3

3

3

3

FW IBIO HRT PHL SOC SOC

445

446

251

380

161

252

**Pharmacology and Toxicology**

ANS ANS BMB EPI

407

427

200

390

Food and Animal Toxicology Environmental Toxicology and Society Introduction to Biochemistry

3

3

4

Disease in Society: Introduction to Epidemiology and Public Health

Neurobiology Nature of Science

Introductory Human Pharmacology Fundamentals of Drug Safety Pharmacology of Drug Addiction Introduction to Chemical Toxicology

4

3

3

3

3

3

3

NEU PHL PHM PHM PHM PHM

300

380

350

351

431

450

**Ecology and Resource Management**

AFRE ANS

265

124

Ecology and Economics

Introduction to Sustainable Agriculture and Food Systems

Animal Agriculture and the Environment Applications of Geographic Information Systems

to Natural Resources Management Introduction to Science, Technology, the

Environment and Public Policy Ecological Problem Solving

Wildlife Research and Management Techniques Wetland Ecology and Management

Principles of Fish and Wildlife Disease

Principles of Fish and Wildlife Disease Laboratory Population Analysis and Management

Human Dimensions of Fisheries and Wildlife Management (W)

3

2

3

ANS FOR

418

419

4

FW

181

3

3

3

3

3

1

4

FW FW FW FW FW FW FW

364

413

417

423

423L

424

434

3

3

3

1

FW IBIO IBIO

463

355

355L

Wildlife Disease Ecology Ecology

Ecology Laboratory (W)

**Animal Management**

AFRE ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS ANS

130

110

110L

134

222

233

234

252

262

272

309

334

401

422

442

472

Farm Management I Introductory Animal Agriculture

Introductory Animal Agriculture Laboratory Dairy Production I

Introductory Beef Cattle Management Dairy Feed Management

Dairy Production II

3

3

1

3

3

3

3

3

3

3

3

2

1

3

3

3

Introduction to Management of Avian Species Introductory Sheep Management

Introductory Swine Management

Animal Health and Disease Management Dairy Management I

Ethical Issues in Animal Agriculture

Advanced Beef Cattle Feedlot Management Advanced Horse Management

Advanced Swine Management

**Animal Products and Nutrition**

ANS ANS

110

201

Introductory Animal Agriculture

3

3

Animal Products

Report of the UCC to the Faculty Senate - 29

PART I – NEW PROGRAMS AND PROGRAM CHANGES

November 16, 2021

ANS ANS ANS ANS ANS ANS ANS

201L

211

233

313

407

413

483

Animal Products Laboratory Animal and Product Evaluation Dairy Feed Management

Principles of Animal Feeding and Nutrition (W) Food and Animal Toxicology

Non-Ruminant Nutrition Ruminant Nutrition

1

3

3

4

3

4

3

Effective Spring 2022.

Report of the UCC to the Faculty Senate - 30 PART II – NEW COURSES

November 16, 2021

**PART II - NEW COURSES**

**DEPARTMENT OF ART, ART HISTORY, AND DESIGN**

HA 262

Buddhist Art and Architecture Across Asia

Fall of even years. 3(3-0) P: Completion of Tier I Writing Requirement RB: HA 101 and HA 102 Historical, iconographic, stylistic, architectural, and technical studies of the most important Buddhist monuments in Asia.

Effective Spring 2022

**DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY**

BMB 370

Introductory Biochemistry Laboratory

Fall of every year. Spring of every year. 3(2-3) P: {(MTH 116 or LB 117) or (MTH 103 and MTH 114)} and (BS 171 or BS 191H or LB 145) and (CEM 162 or CEM 185H or LB 172L) R: Open to

undergraduate students in the Biochemistry and Molecular Biology/Biotechnology Major or in the Biochemistry and Molecular Biology major or in the Lyman Briggs Biochemistry and Molecular Biology Coordinate Major or in the Lyman Briggs-Biochemistry/Biotechnology Coordinate Major or approval of department.

Basic quantitative laboratory introducing biochemical methods and principles for the study of proteins and nucleic acids using data analysis.

Request the use of ET-Extension to postpone grading.

The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.

Effective Summer 2022

**DEPARTMENT OF COMMUNITY SUSTAINABILITY**

CSUS 400

Topics in Environmental Justice

Fall of every year. Spring of every year. 3(3-0) P: ((CSUS 200 and CSUS 300) or approval of department) and completion of Tier I writing requirement

Historical and contemporary sociopolitical conditions facilitating the rise of environmental justice movements domestically and abroad. Race and Environmental Racism. Industrial and waste siting, land grabs, water crisis, climate justice, food sovereignty. Environmental justice activism including logic models and theories of change, participatory community research, economic viability and democracy.

Effective Summer 2022

**DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES**

HDFS 438

Applied Resource Management Practicum

Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HDFS 238 R: Open to juniors or seniors in the College of Social Science.

Strategies and techniques to apply resource management with individuals, households, and communities.

Effective Fall 2022

**MSU COLLEGE OF LAW**

LAW 811G

Global Food Laws: Role of the International Agencies

On Demand. 0 to 6 credits. R: Open to law advanced students in the MSU College of Law.

Roles of the World Trade Organization, World Health Organization, Food and Agriculture Organization, other international agencies in global food laws, including food safety and international food trade disputes.

Effective Spring 2022

Report of the UCC to the Faculty Senate - 31 PART II – NEW COURSES

November 16, 2021

**DEPARTMENT OF MICROBIOLOGY AND MOLECULAR GENETICS**

MMG 493

Professional Internship in Microbiology and Molecular Genetics

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement R: Open to sophomores or juniors or seniors in the Department of Microbiology and Molecular Genetics. Approval of department.

Professional work experience in a private or public sector organization related to the student’s major.

Request the use of ET-Extension to postpone grading.

The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.

Effective Summer 2021

MMG 494L

Summer Undergraduate Research Institute in Genomics (W)

Summer of every year. 3(2-12) P: (Completion of Tier I Writing Requirement) and (MMG 301 and MMG 302) RB: MMG 431 or IBIO 341 R: Open to undergraduate students in the Environmental Biology/Microbiology Major or in the Genomics and Molecular Genetics Major or in the Microbiology Major. Not open to students with credit in MMG 408 or MMG 434.

Directed independent research in teams using state-of-the- art genetic and genomic methods. Offered first half of semester.

Effective Summer 2021

**COLLEGE OF OSTEOPATHIC MEDICINE**

OST 625

Introduction to Military Medicine Elective

On Demand. 6 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: Medical students on HPSP scholarship R: Open to graduate students in the College of Osteopathic Medicine.

Provides osteopathic medical students with an introduction to military medicine capabilities and operations.

Request the use of the Pass-No Grade (P-N) system. Request the use of ET-Extension to postpone grading.

The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.

Effective Summer 2022

OST 626

Special Topics in Healthcare Ethics: Case Studies

Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to graduate students in the College of Osteopathic Medicine. Approval of college.

Increasing the knowledge of healthcare ethics and application to case studies. Exploration of the evaluation and critical appraisal of ethical issues in patient cases. 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 2022

OST 627

Fundamentals of Health Policy and Advocacy

Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to graduate students in the College of Osteopathic Medicine. Approval of college.

Legislative, media and organizational opportunities for physician advocacy. 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 2022

Report of the UCC to the Faculty Senate - 32 PART III – COURSE CHANGES

November 16, 2021

**PART III – COURSE CHANGES**

**DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS**

ACC 807

Financ~~ia~~l Statem~~en~~t Analysis

Using Financial Statement Data for Decision-Making - An Analytics Approach

Fa~~l~~l ~~o~~f ~~ever~~y year. Spring of every year. 3(3-0) P: MBA 802 or ACC 301 ~~RB~~: ~~I~~t ~~i~~s recommended that ~~MB~~A ~~student~~s ~~tak~~e ~~AC~~C 8~~0~~5 pr~~io~~r ~~t~~o enrollment ~~i~~n ~~thi~~s course. RB: Intermediate financial accounting ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n ~~th~~e Accounting ~~majo~~r a~~n~~d open ~~t~~o ~~MB~~A ~~student~~s or appr~~ova~~l ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Conc~~ept~~s ~~o~~f financial an~~alysi~~s using ~~U.S~~. ~~an~~d international accounti~~n~~g inform~~ation~~. Cash- flow and earnings based models for business valuation, and supply of and demand for

~~accountin~~g informati~~o~~n in fina~~ncia~~l ma~~rkets~~. Frameworks and methodologies for profitability and credit risk analyses. Tools and technologies to extract large scale financial statement information for valuation and decision-making. Emphasis on using big data from real world to improve critical thinking in making investment decisions.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 808

Contem~~porar~~y Financ~~ia~~l Repor~~tin~~g Decisions Analyzing Financial Reporting Decisions

Fa~~l~~l ~~o~~f ~~ever~~y year. Spring of every year. 3(3-0) P: ACC 301 ~~RB~~: Undergrad~~uat~~e degree in accounting. RB: Intermediate level financial accounting R: Open to master's students in the Accounting Major or approval of department.

Framework for making professional judgments and decisions about accounting for

contemporary financial reporting issues. Conceptual framework, standard setting,

accounting ~~fo~~r financ~~ia~~l instru~~ments~~, forei~~g~~n subsidiari~~es~~, a~~n~~d hedg~~ing~~. Analytical frameworks to discuss financial reporting issues along with the development of accounting standards for various topics. Standard setting process and FASB’s conceptual framework. Economics of, accounting for, and valuation of financial instruments and derivatives.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 814

Advanced Auditing

Fall of every year. ~~Sprin~~g ~~o~~f ev~~er~~y year. Summer of every year. 3(3-0) P: ACC 411 R: Open to master's students in the Accounting Major or approval of department.

Econom~~ic~~, regu~~lator~~y a~~n~~d techno~~log~~y environments ~~a~~s ~~i~~t rela~~te~~s ~~t~~o aud~~itin~~g ~~i~~n ~~th~~e public ~~an~~d pr~~ivat~~e sect~~ors~~. ~~Ris~~k anal~~ysis~~, professio~~na~~l standar~~ds~~, aud~~i~~t evid~~enc~~e gather~~in~~g and evaluatio~~ns~~, accounti~~n~~g a~~n~~d auditi~~n~~g research ~~an~~d decisi~~o~~n making. Economic, regulatory and technology environments relating to auditing in the public and private sectors. Risk analysis, professional standards, audit evidence gathering and evaluations, accounting and auditing research and decision making. Data visualization and analytics tools used in auditing. Statistical methods for sample selection and analysis. Risk assessment of information produced by the entity and end user computing systems.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 821

Enterprise Database Systems

Fall of every year. 3(3-0) Interdepartmental with Information Technology Management. R: Open to master's students in the Accounting Major or approval of department. Not open to students with credit in ACC 321.

Management of ~~informatio~~n in busin~~es~~s organizati~~ons~~. Conceptual modeli~~n~~g ~~o~~f transaction process systems, workflow systems and enterprise-wide networks of value-added

activities. Integration of decision support and policy level systems with economic event

processi~~n~~g sys~~tems~~. ~~Evolutio~~n ~~o~~f ~~accountin~~g ~~systems~~. Design of accounting information systems. Storage and retrieval of accounting information. Management of information in business organizations. Conceptual modeling of transaction process systems, workflow systems and enterprise-wide networks of value-added activities. Integration of decision

support and policy level systems with economic event processing systems. Evolution of accounting systems.

~~Effectiv~~e Fa~~l~~l 2010 Effective Spring 2022

Report of the UCC to the Faculty Senate - 33 PART III – COURSE CHANGES

November 16, 2021

ACC 822

Information Systems Project Management

Fall of every year. Spring of every year. 1 to 3 credits. Interdepartmental with Information Technology Management. ~~R~~: ~~Ope~~n ~~t~~o gradua~~t~~e stude~~nt~~s ~~i~~n ~~th~~e Accounting ~~majo~~r and open ~~t~~o MBA ~~student~~s ~~o~~r approval ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Management of ~~informatio~~n sy~~ste~~m projec~~ts~~. Modeling ~~o~~f bu~~sines~~s processes. Management of ~~projec~~t ~~scope~~, ~~tim~~e ~~an~~d costs. Planni~~n~~g a~~n~~d ~~contro~~l ~~o~~f projec~~ts~~. Program ~~an~~d portfolio managemen~~t~~. Consul~~tin~~g issues ~~fo~~r ~~effectiv~~e ~~projec~~t management.

Management of information system projects. Management of project scope, time, cost and quality. Optimization of project resources. Planning and control of projects. Program and portfolio management. Consulting issues for effective project management. Waterfall, lean and agile methodologies are discussed.

~~Effectiv~~e Fa~~l~~l 2013 Effective Summer 2022

ACC 823

Advanced Enterprise Database Systems

Fall of every year. ~~Sprin~~g ~~o~~f ev~~er~~y year. 3(3-0) Interdepartmental with Information Technology Management. ~~P~~: ~~AC~~C ~~32~~1 ~~o~~r ~~AC~~C 821 ~~o~~r ITM 821 P: ACC 321 or ACC 821 R: Open to graduate students in the Accounting Major or approval of department.

Architecture of enterprise information. Semantic and syntactic modeling of enterprise economic phenomena, relational database technology and database design for business systems, business process analysis patterns and implementation compromises.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 824

Governance and Control of Enterprise Systems

Fall of every year. ~~Sprin~~g ~~o~~f ev~~er~~y year. 3(3-0) Interdepartmental with Information Technology Management. ~~R~~: ~~Ope~~n ~~t~~o gra~~duat~~e stu~~dent~~s ~~i~~n ~~th~~e Accoun~~tin~~g ma~~jo~~r ~~o~~r ~~i~~n ~~th~~e ~~Maste~~r ~~o~~f Business Administra~~tio~~n ~~i~~n Busi~~nes~~s Administration ~~o~~r approv~~a~~l ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Governan~~c~~e a~~n~~d control ~~o~~f in~~formatio~~n technologi~~es~~. Identif~~icatio~~n a~~n~~d valuation ~~o~~f key informati~~o~~n and communicati~~o~~n technologies, ~~framework~~s ~~fo~~r assessi~~n~~g information ~~syste~~m ~~risk~~, information ~~syste~~m auditi~~ng~~, and internatio~~na~~l standar~~d~~s ~~fo~~r information technolo~~g~~y governa~~nc~~e a~~n~~d c~~ontrol~~. Governance and control of information technologies. Design and control of IT general controls. Modeling and forecasting system IT internal control performance. Identification and valuation of key information and communication technologies. Frameworks for assessing information system risk and cybersecurity.

Information system auditing, and international standards for information technology governance and control. Cyber security.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 825

Object-Oriented Business Information Systems

Fa~~l~~l ~~o~~f ~~ever~~y year. Spring of every year. 3(3-0) Interdepartmental with Information Technology Management. ~~P~~: ~~AC~~C ~~32~~1 ~~o~~r ~~AC~~C 821 P: (ACC 321 or ACC 821) and ACC 823 R: Open to graduate students in the Accounting Major or approval of department.

Analys~~i~~s ~~an~~d design ~~o~~f object-orie~~nte~~d busine~~s~~s ~~systems~~. Unified modeli~~n~~g language descrip~~tion~~s ~~o~~f busi~~nes~~s phenomena and rule~~s~~, object-orie~~nte~~d programm~~ing~~, use-case ana~~lysi~~s and specific~~ations~~, a~~n~~d ~~XM~~L ~~ta~~g sets ~~fo~~r transactions ~~an~~d reporting. Design of object-oriented business systems. Object-oriented programming of accounting classes and methods. Unified modeling language descriptions of business phenomena and rules. Integration of navigational and specificational programming languages.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 826

Enterprise Information Systems

Spring of every year. 3(3-0) Interdepartmental with Information Technology Management. ~~R~~: Open ~~t~~o gradu~~at~~e stu~~dent~~s ~~i~~n the Accounti~~n~~g major ~~o~~r ~~i~~n ~~th~~e ~~Maste~~r ~~o~~f ~~Busines~~s Administra~~tio~~n in Busine~~s~~s Administration ~~o~~r approval ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Enterprise resource planning (ERP) systems. ERP implementation issues and success factors. Use of enterprise systems, and exploring future directions in ERP systems.

~~Effectiv~~e ~~Summe~~r 2011 Effective Summer 2022

Report of the UCC to the Faculty Senate - 34 PART III – COURSE CHANGES

November 16, 2021

ACC 827

Accounting Analytics

Fall of every year. Spring of every year. Summer of every year. 3(3-0) Interdepartmental with Information Technology Management. P: (ACC 321 or ACC 821) and ACC 411 ~~R~~: Open ~~t~~o master's ~~student~~s ~~i~~n the Accounti~~n~~g Major. R: Open to master's students in the Accounting Major or approval of department.

Develop an accounting analytics mindset. Determine and apply appropriate data analytic

techniqu~~e~~s bas~~e~~d up~~o~~n ~~th~~e accounti~~n~~g enviro~~nmen~~t and situ~~ation~~. ~~Us~~e da~~t~~a visualization, pred~~ictiv~~e anal~~ytic~~s ~~an~~d other ana~~lytic~~s software ~~a~~s appropri~~ate~~. Data visualization, predictive analytics, time series analysis, machine learning, supervised and unsupervised learning, association analysis, and other analytics techniques as appropriate to accounting environment and situation.

~~Effectiv~~e Spring 2021 Effective Summer 2022

ACC 830

Tax Research

Fall of every year. 3(3-0) P: ACC 331 ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n the Accounti~~n~~g ma~~jo~~r and open ~~t~~o ~~MB~~A ~~student~~s ~~o~~r appr~~ova~~l ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Wr~~itin~~g and presentation techniqu~~e~~s ~~o~~f ~~ta~~x ~~research~~. Tax prac~~tic~~e ~~an~~d proce~~dure~~, and partnersh~~i~~p taxa~~tion~~. Case studies focused on online tax research techniques. Emphasis on effectively organizing and presenting research results.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 833

Federal Income Taxation of Corporations and Shareholders

Fa~~l~~l ~~o~~f ~~ever~~y year. Spring of every year. Summ~~e~~r ~~o~~f ~~ever~~y year. 3(3-0) P: ACC 331 ~~R~~: ~~Ope~~n to master's stude~~nt~~s ~~i~~n ~~th~~e Accounting ~~majo~~r a~~n~~d op~~e~~n ~~t~~o MBA ~~student~~s ~~o~~r approv~~a~~l ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

The Federal income taxation of corporations and shareholders resulting from operations,

distribu~~tions~~, fo~~rmations~~, liquida~~tion~~, and reorganizatio~~ns~~. Taxation ~~o~~f ~~pas~~s through ~~entities~~. Federal taxation of corporations, shareholders and related financial accounting implications over the life cycle of a corporation. Data mining and data visualization techniques to analyze and understand data. Statistical analysis and forecasting.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 836

U. S. Taxation of Multinational Transactions

Spring of every year. 3(3-0) P: ACC 331 RB: ACC 833 ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n the Accounti~~n~~g ma~~jo~~r and op~~e~~n ~~t~~o ~~MB~~A ~~student~~s ~~o~~r appr~~ova~~l ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Federal income taxation of transactions by U.S. persons outside the United States, and of investments by foreign persons in the U.S.

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

ACC 841

~~Strategi~~c Management Contro~~l~~s Systems

The Role of Accounting in Strategy Implementation

Fa~~l~~l ~~o~~f ~~ever~~y year. Spring of every year. 1 to 3 credits. P: (MBA 812 or ACC 341) and (MGT 409 or (MBA 850 or concurrently)) R: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n ~~th~~e Accounting ~~Majo~~r a~~n~~d op~~e~~n ~~t~~o MBA ~~student~~s ~~o~~r approval ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Management accounti~~n~~g conc~~ept~~s ~~fo~~r st~~rategi~~c management ~~an~~d busi~~nes~~s unit- managemen~~t~~. Performance measur~~ement~~, planni~~n~~g a~~n~~d budgetin~~g~~, ~~an~~d ~~contro~~l system desi~~gn~~. Strategic management control systems and accounting data supporting the design, implementation, monitoring, and continuous assessment of business strategies. Emerging risks and opportunities are also evaluated.

~~Effectiv~~e Fa~~l~~l 2015 Effective Summer 2022

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November 16, 2021

ACC 843

Value Chain Accounting and Analytics

Fall of every year. Summer of every year. 1 to 3 credits. P: (MBA 812 or ACC 341) and (MBA 804 or MKT 317) R: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n t~~h~~e Accounting ~~Majo~~r a~~n~~d op~~e~~n ~~t~~o ~~MB~~A ~~student~~s or appr~~ova~~l ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Design and use ~~o~~f managerial accounting ~~system~~s ~~t~~o suppo~~r~~t operational decisions in comple~~x~~, real-w~~orl~~d se~~ttings~~, using analytical techniqu~~e~~s and ~~rea~~l da~~ta~~. Design and use of managerial accounting systems to support operational decisions in complex, real-world settings, using analytical techniques and real data. Data mining and visualization with financial and nonfinancial information. Statistical distributions and regression analyses in the context of managerial accounting systems.

~~Effectiv~~e Spring 2016 Effective Summer 2022

ACC 850

Accounti~~n~~g ~~fo~~r Multiu~~ni~~t Enterprises

Accounting and Tax Implications of Mergers and Acquisitions

Fall of every year. ~~Sprin~~g ~~o~~f ev~~er~~y year. 3(3-0) P: ACC 301 and ACC 331 ~~R~~: ~~Ope~~n ~~t~~o graduate ~~student~~s ~~i~~n the Accounti~~n~~g ma~~jo~~r ~~o~~r approval ~~o~~f department. R: Open to master's students in the Accounting Major or approval of department.

Financ~~ia~~l repor~~tin~~g and ~~ta~~x iss~~ue~~s rela~~te~~d ~~t~~o busi~~nes~~s combinati~~on~~s a~~n~~d di~~vestiture~~s and ~~th~~e resulti~~n~~g consolidated repo~~rtin~~g ~~o~~f t~~h~~e multi-un~~i~~t enterprise's financ~~ia~~l a~~n~~d tax informati~~on~~. Analysis of tax and financial accounting issues involved in business acquisitions. Post-acquisition tax and financial reporting of the combined entity.

SA: ACC 450

~~Effectiv~~e Fa~~l~~l 2010 Effective Summer 2022

**DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY**

BMB 470

Advanced Molecular Biology Laboratory

Fall of every year. 4(2-4) ~~P~~: ~~CE~~M ~~26~~2 and BMB 461 P: BMB 370 and BMB 461 RB: BMB 462 R:

Open to students in the Biochemistry and Molecular Biology/Biotechnology Major or in the Biochemistry and Molecular Biology major or in the Lyman Briggs Biochemistry and Molecular Biology Coordinate Major or in the Lyman Briggs-Biochemistry/Biotechnology Coordinate Major or approval of department.

Methods of molecular biology and the underlying principles on which these methods are based.

SA: BCH 472, BMB 472

~~Effectiv~~e Fa~~l~~l 2021 Effective Fall 2023

BMB 471

Advanced Biochemistry Laboratory

Spring of every year. 4(2-4) ~~P~~: ~~BM~~B ~~46~~1 and ~~CE~~M ~~26~~2 a~~n~~d ~~CMS~~E 201 P: BMB 370 and BMB 461 and CMSE 201 R: Open to students in the Biochemistry and Molecular Biology/Biotechnology Major or in the Biochemistry and Molecular Biology major or in the Lyman Briggs Biochemistry and Molecular Biology Coordinate Major or in the Lyman Briggs-Biochemistry/Biotechnology Coordinate Major or approval of department.

Biochemical methods and principles used in the study of enzymes (proteins), carbohydrates, lipids, and cell organelles.

SA: BCH 471

~~Effectiv~~e Spring 2022 Effective Fall 2023

BMB 829

~~Method~~s ~~o~~f Macromolecul~~a~~r ~~Analysi~~s ~~an~~d Synthesis

Special Problems in Macromolecular Analysis and Synthesis

Fall of every year. 2(2-0) 1 credit. A student may earn a maximum of 5 credits in all enrollments for this course. RB: ~~BM~~B ~~46~~2 ~~o~~r concurrently RB: BMB 461 and BMB 462

Techni~~que~~s ~~o~~f isolati~~o~~n a~~n~~d characterizati~~o~~n ~~o~~f macromolec~~ules~~. Com~~pute~~r ~~us~~e in structure-functi~~o~~n an~~alysi~~s ~~o~~f macromolecules. Techniques of isolation and characterization of macromolecules. Topics may vary.

SA: BCH 829

~~Effectiv~~e Fa~~l~~l 2001 Effective Fall 2022

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**DEPARTMENT OF COMMUNITY SUSTAINABILITY**

CSUS 429

Program Evaluation for Community Sustainability

Fall of every year. 3(3-0) ~~P~~: {{(MTH ~~103~~) and (STT ~~20~~0 ~~o~~r STT ~~201)~~} ~~o~~r (MTH ~~10~~3 and MTH ~~114~~) or MTH ~~11~~6 ~~o~~r MTH ~~124~~} and ~~((CSU~~S 200 ~~o~~r ~~EE~~M ~~255~~) and comple~~tio~~n ~~o~~f Ti~~e~~r I ~~writin~~g requirement) P: {{{(MTH 103) or (MTH 103A and MTH 103B)} and (STT 200 or STT 201) and MTH 114} or (MTH

116 or MTH 124)} and (CSUS 200 and completion of Tier I writing requirement)

Concepts, theories, and procedures in program evaluation. Practical methods and skills to plan and implement evaluations of community, agriculture, and natural resources programs.

SA: ACR 415

~~Effectiv~~e Spring 2019 Effective Summer 2022

**SCHOOL OF HOSPITALITY BUSINESS**

HB 210

Casino Operations and Management

Fall of every year. Spring of every year. 3(3-0) R: Open to students in the Hospitality Business Major.

Social issues of gaming, casino games of chance, management controls and marketing plans.

~~Effectiv~~e ~~Summe~~r 2021 Effective Summer 2022

HB 273

Hospitality Business Analytics

Fall of every year. Spring of every year. 3(3-0) ~~P~~: ~~CS~~E ~~10~~1 ~~o~~r ~~CS~~E 102 P: CSE 102 RB: Basic Microsoft Excel Skills ~~R~~: ~~Ope~~n ~~t~~o ~~student~~s ~~i~~n ~~th~~e Hospital~~it~~y Busine~~s~~s Major ~~o~~r ~~i~~n ~~th~~e Hospitality Busine~~s~~s Real ~~Estat~~e ~~Investmen~~t Management Minor. R: Open to students in the Hospitality Business Major or in the Real Estate Minor. Not open to students with credit in ITM 209.

Quantitative and analytical skills used to communicate key business information effectively. Study of how business modeling and data analytics can increase decision making efficacy. Course topics include but are not limited to sensitivity and scenario analysis, financial modeling and forecasting, and applied business statistics methods. SA: HB 473

~~Effectiv~~e ~~Summe~~r 2021 Effective Summer 2022

HB 282

Hospit~~alit~~y Real Estate Real Estate Principles

Fall of every year. Spring of every year. 3(3-0) ~~R~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~i~~n ~~th~~e Hospita~~lit~~y Business ~~Majo~~r ~~o~~r in ~~th~~e Hospit~~alit~~y Busi~~nes~~s R~~ea~~l Esta~~t~~e ~~Investmen~~t Management Minor. R: Open to students in the Hospitality Business Major or in the Real Estate Minor.

Process of planning and developing a commercial real estate project: conceptualization and planning, feasibility, commitment, design layout and construction, and management and operation.

SA: HB 473

~~Effectiv~~e ~~Summe~~r 2021 Effective Summer 2022

HB 337

Hospitality Information Systems

Fall of every year. Spring of every year. 3(3-0) ~~P~~: ~~CS~~E ~~10~~1 ~~o~~r ~~CS~~E 102 P: CSE 102 R: Open to juniors or seniors in the Hospitality Business Major.

Technology for gathering, analyzing, storing and communicating information within the hospitality industry.

~~Effectiv~~e ~~Summe~~r 2020 Effective Summer 2022

HB 345L

Hospitality Food Production Systems Lab

Fall of every year. Spring of every year. 1(0-2) ~~P~~: ~~H~~B ~~34~~5 ~~o~~r concurrently P: HB 265 R: Open to juniors or seniors in the Hospitality Business Major.

Practical applications of organization in food and beverage operations. Product knowledge, especially purchasing, storing, preparing, and production in food service operations. Menu development and recipe management.

~~Effectiv~~e ~~Summe~~r 2021 Effective Summer 2022

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HB 380

Event Planning and Management

Fall of every year. 3(3-0) P: HB 280 R: Open to juniors or seniors in the Hospitality Business Major. Identify the logistical steps for planning an event. The relationship between the goal and objectives for holding an event. Pre-event planning and project management. Understand the detailed components of creating an event.

~~Effectiv~~e ~~Summe~~r 2021 Effective Summer 2022

HB 405

Hospitality Foodservice Cost Control

Fall of every year. ~~Sprin~~g ~~o~~f ev~~er~~y year. 3(3-0) ~~P~~: ~~(H~~B ~~265~~) ~~an~~d ~~((H~~B 302 ~~o~~r concurre~~ntly~~) ~~o~~r (ACC ~~20~~2 ~~o~~r concurr~~ently~~) ~~o~~r ~~(AC~~C ~~23~~0 ~~o~~r concurrently)) P: HB 265 R: Open to juniors or seniors in the Hospitality Business Major.

Design of food and beverage control systems, emphasis on product purchasing (policies, suppliers, selection and evaluation, determination of quality and quantity, ethics and use of technology), inventory management and issuing systems, revenue control procedures and equipment.

~~Effectiv~~e ~~Summe~~r 2021 Effective Summer 2022

HB 411

Hospitality Beverages

Fall of every year. Spring of every year. 3(3-0) RB: Must be 21 years of age R: Open to juniors or seniors in the Hospitality Business Major. Approval of school.

Evalua~~tio~~n ~~an~~d selection ~~o~~f ho~~spitalit~~y bevera~~ges~~. Geographi~~ca~~l origins ~~o~~f beverages, bever~~ag~~e prod~~uction~~, qual~~it~~y assessmen~~t~~, matching bevera~~ge~~s ~~wit~~h food, hea~~lt~~h and ~~socia~~l consider~~ations~~. Geographical origins of beverages, beverage production, quality assessment, matching beverages with food, health, and social considerations. Evaluation and selection of hospitality beverages. Service procedures. Industry statistics and trends. ~~Effectiv~~e ~~Summe~~r 2020 Effective Summer 2022

HB 411L

Hospitality Beverages Lab

Fall of every year. Spring of every year. 1(0-2) ~~P~~: ~~H~~B ~~41~~1 ~~o~~r concurrently RB: Must be 21 years of age R: Open to juniors or seniors in the Hospitality Business Major. Approval of school.

~~Practica~~l applic~~atio~~n ~~o~~f topi~~c~~s discuss~~e~~d ~~i~~n hospita~~lit~~y bever~~ages~~. Evaluati~~o~~n and selection of hospitality beverages. Geographical origins and methods of production of beverages.

Quality assessment of different varieties and types. Economic implications and financial

aspects relating to hospitality operations. Discussion of health implications and pairings

~~wit~~h ~~food~~. Safe service and menu pricing of alcoholic and non-alcoholic beverages within a hospitality establishment. Evaluation of cost and visual, aroma, and flavor attributes.

~~Effectiv~~e Fa~~l~~l 2021 Effective Summer 2022

HB 425

Golf Operations and Management

Fall of every year. Spring of every year. 3(3-0) ~~P~~: ~~H~~B 420 R: Open to juniors or seniors or graduate students.

Golf course operations including human resource management, golf course and facility design, equipment, pro shop operations, golf cart fleet and tee sheet management. Golf tournament and outing planning and operations, common golf course legal issues, sustainable golf course maintenance and how the weather impacts the industry. Current trends and strategies in golf facility marketing and advertising. Importance of hospitality in golf operations as well as strategic food and beverage selection.

~~Effectiv~~e Fa~~l~~l 2021 Effective Summer 2022

HB 437

Hospitality Revenue Management

Fall of every year. Spring of every year. 3(3-0) ~~P~~: ~~((H~~B ~~27~~3 ~~o~~r concurre~~ntly~~) ~~o~~r (ITM ~~20~~9 or concurr~~ently)~~) ~~an~~d ~~(H~~B 3~~7~~5 ~~o~~r ~~MK~~T ~~30~~0 ~~o~~r ~~MK~~T 327) P: (HB 273 or ITM 209) and (MKT 327 or MKT 300) ~~R~~: ~~Ope~~n ~~t~~o juni~~or~~s ~~o~~r seni~~or~~s ~~i~~n the Hosp~~italit~~y Busine~~s~~s ~~Majo~~r ~~o~~r ~~i~~n ~~th~~e Hospitality Busine~~s~~s Real ~~Estat~~e ~~Investmen~~t Management Minor. R: Open to juniors or seniors in the Hospitality Business Major or in the Real Estate Minor.

Exposure to key management and marketing issues relating to the effective implementation of revenue management. The relationships between the revenue management function and other functions or departments in the hospitality organization. The role and job responsibilities of a revenue manager. The identification of distribution channels that hospitality organizations may use to distribute their inventory.

~~Effectiv~~e ~~Summe~~r 2020 Effective Summer 2022

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HB 470

Hospit~~alit~~y Asset Management Real Estate Asset Management

Fall of every year. Spring of every year. 3(3-0) ~~P~~: ~~((H~~B ~~27~~3 ~~o~~r concurre~~ntly~~) ~~o~~r (ITM ~~20~~9 or concurr~~ently)~~) ~~an~~d ~~(H~~B 3~~1~~1 ~~o~~r FI ~~31~~1 ~~o~~r FI 320) P: (HB 273 or ITM 209) and (FI 320 or FI 311) R: Open to juniors or seniors in the Hospitality Business Major or in the Hospitality Real Estate Minor.

Market forces effecting consumer and business spending applied to the management of real estate assets. Theoretical analyses, practical analyses, and hospitality industry specific cases requiring the use of spreadsheet software and technical writing skills.

Application of operations expertise to capital investment and disposition decisions. Management contracts, franchise agreements, capital budgets, capital markets, capital structures, labor, market cycles, and brand decisions.

~~Effectiv~~e Fa~~l~~l 2021 Effective Summer 2022

HB 472

Hospit~~alit~~y Financial Modeling Real Estate Financial Modeling

Fall of every year. Spring of every year. 1(1-0) ~~P~~: ~~((H~~B ~~27~~3 ~~o~~r concurre~~ntly~~) ~~o~~r (ITM ~~20~~9 or concurr~~ently)~~) ~~an~~d ~~(H~~B 3~~1~~1 ~~o~~r FI ~~31~~1 ~~o~~r FI 320) P: (HB 273 or ITM 209) and (FI 320 or FI 311) R: Open to juniors or seniors in the Hospitality Business Major or in the Hospitality Real Estate Minor.

Design and development of computer spreadsheet-based models to analyze real estate investment financial strategies and valuation issues.

~~Effectiv~~e Fa~~l~~l 2021 Effective Summer 2022

HB 474

Hospit~~alit~~y Valuation Real Estate Valuation

Fall of every year. Spring of every year. 3(3-0) ~~P~~: ~~((H~~B ~~27~~3 ~~o~~r concurre~~ntly~~) ~~o~~r (ITM ~~20~~9 or concurr~~ently)~~) ~~an~~d ~~(H~~B 3~~1~~1 ~~o~~r FI ~~31~~1 ~~o~~r FI 320) P: (HB 273 or ITM 209) and (FI 320 or FI 311) R: ~~Ope~~n ~~t~~o ju~~nior~~s ~~o~~r ~~senior~~s in ~~th~~e Hospital~~it~~y Busine~~s~~s Major ~~o~~r ~~i~~n ~~th~~e Hosp~~italit~~y R~~ea~~l Es~~tat~~e Minor. Open to juniors or seniors in the Hospitality Business Major or in the Real Estate Minor.

Financial management principles for real estate appraisal and valuation considering perspectives of brokers, consultants, developers, and investors. Theoretical and practical analyses with hospitality industry cases using spreadsheet software and technical writing. Capital markets, capital structures, discounted cash flow, internal rate of return, leverage, and net present value.

~~Effectiv~~e Fa~~l~~l 2021 Effective Summer 2022

HB 482

Advanced Hospitality Finance

Spring of every year. 3(3-0) ~~P~~: ~~(H~~B ~~27~~3 ~~o~~r ITM ~~209~~) and (HB ~~31~~1 ~~o~~r FI ~~31~~1 ~~o~~r FI 320) P: (HB 273 or ITM 209) and (FI 320 or FI 311) R: ~~Ope~~n ~~t~~o juni~~or~~s ~~o~~r seniors ~~i~~n ~~th~~e Hosp~~italit~~y Busi~~nes~~s ~~Majo~~r ~~o~~r in ~~th~~e Hosp~~italit~~y ~~Rea~~l ~~Estat~~e Minor. Open to juniors or seniors in the Hospitality Business Major or in the Real Estate Minor.

Financial analysis regarding the financial viability of hospitality companies. Choosing between investment alternatives, financing , and financial restructuring.

~~Effectiv~~e Spring 2022 Effective Summer 2022

**DEPARTMENT OF MARKETING**

MKT 351

Retail Management

Fall of every year. Spring of every year. Summer of every year. 3(3-0) Interdepartmental with Food Industry Management. P: MKT 300 or MKT 327 R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Food Industry Management major and open to students in the Food Industry Management Specialization.

Domestic and international retailing structure, environment, and development. Managerial strategy. Locational, purchasing, organizational, personnel and promotional techniques. Retail budgeting and control. Social and ethical considerations.

SA: MSC 351 DELETE COURSE

Effective Fall 2021

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**PROGRAM IN MATHEMATICS EDUCATION**

MTHE 999

Doctoral Dissertation Research

Fall of every year. Spring of every year. Summer of every year. 1 to 24 credits. A ~~studen~~t ~~ma~~y earn a ~~maximu~~m ~~o~~f ~~3~~0 cred~~it~~s ~~i~~n ~~al~~l enrol~~lment~~s for th~~i~~s course. A student may earn a maximum of 36 credits in all enrollments for this course. RB: MTHE 926 and MTHE 927 and MTHE 954

Doctoral dissertation research.

Request the use of the Pass-No Grade (P-N) system. SA: SME 999

~~Effectiv~~e ~~Summe~~r 2014 Effective Spring 2022

**DEPARTMENT OF MEDIA AND INFORMATION**

MI 839

~~Gam~~e ~~an~~d Film Design Studio I Game and Project Design Studio I

Fall of every year. 3(3-0) R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.

Design principles for the creation of transmedia (games, film, websites, etc.). Design and

development studio course focused on the creation of fictional storytelling projects across

media proj~~ects~~. Design and development studio course focused on the creation of projects (games, applications, websites, video, etc.) that can take a wide variety of forms, from physical games to virtual reality.

SA: TC 839

~~Effectiv~~e Fa~~l~~l 2017 Effective Summer 2022

MI 846

~~Gam~~e ~~an~~d Film Design Studio II Game and Project Design Studio II

Spring of every year. 3(3-0) RB: MI 839 R: Open to graduate students in the College of Communication Arts and Sciences or approval of department.

Design principles for the creation of transmedia (games, film, websites, etc.). Design and

development studio course focused on the creation of fictional storytelling projects across

media proj~~ects~~. Continuation of design and development studio course focused on the creation of projects (games, applications, websites, video, etc.) that can take a wide variety of forms, from physical games to virtual reality.

~~Effectiv~~e Fa~~l~~l 2017 Effective Summer 2022

**DEPARTMENT OF MICROBIOLOGY AND MOLECULAR GENETICS**

MMG 433

Microbi~~a~~l Genomics Genomics (W)

Spring of every year. 3(3-0) ~~P~~: ~~(MM~~G 431) P: MMG 431 RB: (MMG 421 or BMB 461) and CSE 101 Structure of microbial genomes and implications for growth and evolution of bacteria and

~~fungi~~. Computer analys~~i~~s ~~o~~f ge~~nom~~e sequence datab~~ases~~. Applicatio~~n~~s ~~t~~o gene expressi~~o~~n and phyloge~~neti~~c a~~nalysis~~. High-throughput DNA sequencing and the study of genome structure, replication, evolution. Application of bioinformatics analyses for functional annotation, genetic diversity, ecology, and human health.

~~Effectiv~~e Fa~~l~~l 2015 Effective Summer 2022

**COLLEGE OF MUSIC**

MUS 125

~~Gle~~e Cl~~ub~~, Men ~~an~~d Women Glee Club

Fall of every year. Spring of every year. 1(0-3) A student may earn a maximum of 10 credits in all enrollments for this course.

Rehearsal and performance of broad range of choral literature chosen from medieval period to the present.

~~Effectiv~~e Fa~~l~~l 2015 Effective Fall 2022

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MUS 849

Piano Performance

Fall of every year. Spring of every year. 1(1-0) A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to graduate students in the College of Music.

Critique and analysis of individual performances of piano literature in a group setting. DELETE COURSE

Effective Fall 2022

MUS 850A

Piano

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in piano. R: Open to master's students in the Master of Music in Music Education or in the Master of Music in Music Performance.

Private instruction in piano. DELETE COURSE

Effective Fall 2022

MUS 851

Voice

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in voice. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in voice. DELETE COURSE

Effective Fall 2022

MUS 852A

Violin

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in violin. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in violin. DELETE COURSE

Effective Fall 2022

MUS 852B

Viola

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in viola. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in viola. DELETE COURSE

Effective Fall 2022

MUS 852C

Cello

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in cello. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in cello. DELETE COURSE

Effective Fall 2022

MUS 852D

Double Bass

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in double bass. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in double bass. DELETE COURSE

Effective Fall 2022

MUS 852E

Harp

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course.

Private instruction in harp DELETE COURSE

Effective Fall 2022

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November 16, 2021

MUS 853A

Flute

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in flute. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in flute. DELETE COURSE

Effective Fall 2022

MUS 853B

Oboe

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in oboe. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in oboe. DELETE COURSE

Effective Fall 2022

MUS 853C

Clarinet

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in clarinet. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in clarinet. DELETE COURSE

Effective Fall 2022

MUS 853D

Saxophone

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in saxophone. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in saxophone. DELETE COURSE

Effective Fall 2022

MUS 853E

Bassoon

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in bassoon. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in bassoon. DELETE COURSE

Effective Fall 2022

MUS 854A

Trumpet

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in trumpet. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in trumpet. DELETE COURSE

Effective Fall 2022

MUS 854B

Horn

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in horn. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in horn. DELETE COURSE

Effective Fall 2022

MUS 854C

Trombone

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in trombone. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in trombone. DELETE COURSE

Effective Fall 2022

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MUS 854D

Euphonium

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in euphonium. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in euphonium. DELETE COURSE

Effective Fall 2022

MUS 854E

Tuba

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in tuba. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in tuba. DELETE COURSE

Effective Fall 2022

MUS 855

Percussion

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. RB: Emphasis in percussion. R: Open to master's students in the Master of Music in Music Performance.

Private instruction in percussion. DELETE COURSE

Effective Fall 2022

MUS 856

Chamber Music

Fall of every year. Spring of every year. 1 to 2 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open to graduate students in the College of Music.

Performance of chamber music under faculty direction. DELETE COURSE

Effective Fall 2022

MUS 896

Master's ~~Recita~~l Performance Master's Performance

Fall of every year. Spring of every year. Summer of every year. 1 to 10 credits. A ~~studen~~t ~~ma~~y earn a ~~maximu~~m ~~o~~f ~~1~~2 cred~~it~~s ~~i~~n ~~al~~l enrol~~lment~~s for th~~i~~s course. A student may earn a maximum of 20 credits in all enrollments for this course. ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n ~~th~~e ~~Musi~~c Performance major. R: Open to master's students in the Music Performance major and open to master's students in the Collaborative Piano Major and open to master's students in the Jazz Studies Major.

Directed experi~~enc~~e in ~~recita~~l performa~~nc~~e ~~i~~n par~~tia~~l fulfillment ~~o~~f ~~Pla~~n B master's degree requiremen~~t~~s ~~fo~~r master's ~~student~~s ~~i~~n perform~~ance~~. Directed experience in solo, chamber, and ensemble performance in partial fulfillment of Plan B master's degree requirements for master's students in performance.

Req~~ues~~t ~~th~~e use ~~o~~f ~~th~~e ~~Pass-N~~o ~~Grad~~e (P-N) system. Request the use of ET-Extension to postpone grading.

The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

~~Effectiv~~e Fa~~l~~l 2019 Effective Fall 2022

MUS 996

Doctoral Recital Performance Doctoral Performance

Fall of every year. Spring of every year. Summer of every year. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open to doctoral students in the College of Music.

Directed experi~~enc~~e in ~~recita~~l performa~~nc~~e ~~i~~n ~~partia~~l fulfillment ~~o~~f requireme~~nt~~s ~~fo~~r the ~~Docto~~r ~~o~~f Musi~~ca~~l ~~Art~~s degree. Directed experience in solo, chamber, and ensemble performance in partial fulfillment of requirements for the Doctor of Musical Arts degree. Request the use of ET-Extension to postpone grading.

The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.

~~Effectiv~~e Fa~~l~~l 2019 Effective Fall 2022

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**DEPARTMENT OF PHYSICS AND ASTRONOMY**

AST 410

Senior Thesis

Fall of every year. Spring of every year. Summ~~e~~r ~~o~~f ~~ever~~y year. 1 to 4 credits. A student may earn a maximum of 5 credits in all enrollments for this course. ~~P~~: ~~(AS~~T ~~301~~) ~~an~~d comple~~tio~~n ~~o~~f Ti~~e~~r I ~~writin~~g requirement. P: (AST 304 or AST 308) and completion of Tier I writing requirement

Design and ex~~ecut~~e ~~a~~n origin~~a~~l experime~~n~~t ~~o~~r computation. A ~~writte~~n ~~an~~d ~~ora~~l re~~por~~t ~~o~~f the research ~~i~~s required. Capstone course for undergraduate astrophysics majors requiring an in-depth investigation of an astronomical topic.

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.

~~Effectiv~~e Fa~~l~~l 2013 Effective Spring 2022

**DEPARTMENT OF PLANT BIOLOGY**

PLB 105

Plant Biology

Fall of every year. Spring of every year. Summer of every year. 3(3-0)

~~Plan~~t ~~structure~~, ~~function~~, developmen~~t~~, geneti~~cs~~, ~~diversit~~y and ecol~~ogy~~. Plant structure, function, development, genetics, diversity and ecology. Offered first half of semester. SA: BOT 105

~~Effectiv~~e Fa~~l~~l 2014 Effective Spring 2022

**DEPARTMENT OF THEATRE**

THR 419

Projection Design for Live Performance

Spring of every year. 3(2-2) Interdepartmental with Media and Information. A student may earn a maximum of 6 credits in all enrollments for this course. ~~P~~: (T~~H~~R 21~~9~~) ~~o~~r (T~~H~~R 337 ~~o~~r ~~M~~I ~~33~~7 ~~o~~r MI

341) P: (THR 211 or THR 212 or THR 214 or THR 216 or THR 219) or (MI 337 or DS 341) RB: T~~H~~R ~~21~~1 ~~o~~r THR 211L ~~o~~r THR ~~21~~2 ~~o~~r T~~H~~R 2~~12~~L ~~o~~r T~~H~~R 214 ~~o~~r T~~H~~R 214L ~~o~~r T~~H~~R ~~21~~6 ~~o~~r THR 216L RB: THR 211 or THR 212 or THR 214 or THR 216

Creating projection performance media through script, technology advancements, and production analysis. Practical application through digital rendering, video production and software exploration.

~~Effectiv~~e Fa~~l~~l 2017 Effective Summer 2021