

MICHIGAN STATE UNIVERSITY

**Report of
THE UNIVERSITY COMMITTEE ON CURRICULUM
to the Faculty Senate
Actions by UCC
March 12, 2026**

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

March 17, 2026

TO: Faculty Senate

This report is prepared and distributed for the following purposes:

1. To report new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
2. To notify the initiating colleges, schools, and departments of approval by the University Committee on Curriculum of their requests for new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
3. To provide information to members of the faculty in each department about academic programs and courses in all colleges, departments, and schools of the University.

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

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

PART II - NEW COURSES:¹

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

PART III - COURSE CHANGES:¹

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

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

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

- P: = Prerequisite monitored in SIS
- C: = Corequisite
- R: = Restriction
- RB: = Recommended background
- SA: = Semester Alias

MICHIGAN STATE UNIVERSITY

March 17, 2026

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. Delete the curriculum and degree requirements for the **Minor in Technology Systems Management** in the Department of Biosystems and Agricultural Engineering. The University Committee on Undergraduate Education (UCUE) provided consultative commentary to the Provost after considering this request. The Provost made the determination after considering the consultative commentary from the University Committee on Undergraduate Education.

No new students are to be admitted to the program effective Spring 2024. No students are to be readmitted to the program effective Spring 2024. Effective Summer 2026, coding for the program will be discontinued and the program will no longer be available in the Department of Biosystems and Agricultural Engineering. Students who have not met the requirements for the Minor in Technology Systems Management through the Department of Biosystems and Agricultural Engineering prior to Summer 2026 will have to change their minor.

Note: This program has been in moratorium since Spring 2024.

2. Change the requirements for **Bachelor of Science** degree in **Sustainable Parks, Recreation and Tourism** in the Department of Community Sustainability.

a. Under the heading **Requirements for the Bachelor of Science Degree in Sustainable Parks, Recreation and Tourism** make the following changes:

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

The University's Tier II writing requirement for the Sustainable Parks, Recreation and Tourism major is met by completing Community Sustainability 300 or 476. Those courses are referenced in item 3. below.

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

(a) Delete the following course:

CSUS 301 Community Engagement for Sustainability (W) 3

(b) Change the total credits from '26' to '23'.

- (3) In item 3. c., add the following courses:

CSUS 320 Environmental Planning and Management 3
CSUS 466 Michigan Trail Building, Law, and Policy 3

- (4) In item 3. d., under **Terrestrial Ecologies** make the following change:

Delete the following course:

CSS 210 Fundamentals of Soil Science 3

Add the following course:

SOIL	210	Fundamentals of Soil Science	3
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Effective Fall 2026.

3. Change the requirements for the **Bachelor of Arts** degree in **Interior Design** in the School of Planning, Design and Construction to the following.

a. Under the heading **Admission**, in item 3., delete Interior Design 240 and add Interior Design 130.

b. Under the heading **Requirements for the Bachelor of Arts Degree in Interior Design** make the following changes:

- (1) In item 3. a., change the total credits from '57' to '59' and delete the following courses:

IDES	240	Computer-Aided Design for Designers	3
IDES	250	3D Modeling and Visualization	3
IDES	340	Interior Design Specifications and Workroom Practices	3
IDES	343	Interior Design Presentation and Media	3
IDES	344	History of Interior Design: Ancient Through Rococo	3
IDES	354	History of Interior Design: Neo-Classical Through Modern	3
IDES	393	Introduction to Professional Practice	1
IDES	440	Contemporary Design Issues	2
IDES	441	Interior Design Open Office Systems	1
IDES	451	Interior Design Professional Practice	2

Add the following courses:

IDES	130	Computer-Aided Design for Designers	3
IDES	231	Interior Design Presentation and Media	3
IDES	232	3D Modeling and Visualization	3
IDES	261	History of Interior Design: Ancient Through Rococo	3
IDES	262	History of Interior Design: Neo-Classical Through Modern	3
IDES	290	Interior Design Specifications and Workroom Practices	3
IDES	294	Introduction to Professional Practice	1
IDES	333	Revit for Designers	3
IDES	348	Contemporary Design Issues	2
IDES	395	Interior Design Professional Practice	2

- (2) Replace item 3. b. (4) with the following:

IDES	463	Historic Preservation and Sustainability (3 credits).	
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Effective Fall 2026.

4. Change the requirements for the **Bachelor of Science** degree in **Turfgrass Science and Management** in the Department of Plant, Soil and Microbial Sciences.

a. Under the heading **Requirements for the Bachelor of Science Degree in Turfgrass Science and Management** make the following changes:

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

TURF	202	World of Turf	2
TURF	232	Turf Cultural Practices	2

Add the following course:

TURF	242	Turf Cultural Practices	2
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- (2) Change the total credits in 3. d. from '58' to '56'.

Effective Fall 2026.

- 5. Change the requirements for the **Minor in Turfgrass Management** in the Department of Plant, Soil and Microbial Sciences.

- a. Under the heading **Requirements for the Minor in Turfgrass Management** make the following change:

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

TURF	232	Turf Cultural Practices	2
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Add the following course:

TURF	242	Turf Cultural Practices	2
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Effective Fall 2026.

ELI BROAD COLLEGE OF BUSINESS

- 1. Change the requirements of the **Bachelor of Science** degree in **Management** in the Department of Management.

- a. Under the heading **Bachelor of Science Degree in Management** make the following changes:

- (1) In item 1., delete paragraph two:

The completion of Mathematics 103 and 124 [referenced in item 2. below] may also satisfy the University mathematics requirement.

- (2) Replace item 3. a. (2) with the following:

Complete 12 credits from the following:

ESHP	380	Entrepreneurship: Planning, Modeling and Adaptive Execution	3
ESHP	480	Innovation in Action	3
ESHP	490	Independent Study in Entrepreneurship	3
ESHP	491	Special Topics in Entrepreneurship	3
MGT	352	Entrepreneurship: New Venture Process	3
MGT	411	Organizational Staffing	3
MGT	412	Compensation and Reward Systems	3
MGT	413	Personnel Training and Development	3
MGT	414	Diversity in the Workplace	3
MGT	475	Negotiation and Conflict Management	3
MGT	476	Globalization and International Management	4
MGT	490	Independent Study	1 to 3
MGT	491	Special Topics in Management	3

Up to two courses (6 credit maximum) at the 300-400 level from Accounting, Finance, General Business and Business Law, Information Technology Management, International Business, Marketing, and Supply Chain Management may be used to fulfill this requirement with approval of the student's advisor.

Courses that are used to satisfy BUSINESS CORE PROGRAM requirements [referenced in item 2. of the College's statement on *Graduation Requirements for the Bachelor of Science Degree* in the majors that comprise the Business Administration Programs] may not be used to satisfy this requirement.

Effective Fall 2026.

COLLEGE OF EDUCATION

1. 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 February 23, 2026 meeting.
 - a. Under the heading **Requirements for the Master of Arts Degree in Special Education** make the following changes:
 - (1) Under the heading **Autism Spectrum Disorder - Master of Arts with an Autism Spectrum Disorder Endorsement**, in the first paragraph delete the last sentence:

A student who earned a teaching certificate and endorsement in learning disabilities from Michigan State University can transfer 12 credits of approved course work and complete this program upon the completion of 18 credits.
 - (2) Under the heading **Learning Disabilities - Master of Arts** delete the following paragraph:

Students must complete 30 credits and may be able to transfer 6 to 12 credits of course work from their post-baccalaureate program into the master's area of emphasis with advisor approval. The course work must meet the area of emphasis, department, college, and university requirements. The student's area of emphasis must be approved by the advisor.
 - (3) Under the heading **Learning Disabilities - Master of Arts** replace item 2. with the following:

The following course (3 credits):

TE	846	Accommodating Differences in Literacy Learners	3
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Effective Summer 2026.

COLLEGE OF ENGINEERING

1. Change the **Graduation Requirements for the Master of Science Degree** statement in the **College of Engineering**. The University Committee on Graduate Studies (UCGS) approved this request at its February 23, 2026 meeting.
 - a. Under the heading **Academic Standards** replace item 4. a. with the following:

Cumulative Grade–Point Average. Should a student's cumulative grade–point average fall below 3.00 after having completed 6 or more credits in courses in the approved program of study, the student may be enrolled in probational status in the master's degree program for one additional semester. If at the end of the additional semester the student's cumulative grade–point average is 3.00 or higher, the student may continue to enroll in the master's degree program. If at the end of the additional semester the student's cumulative grade–point average is still below 3.00, the student will be dismissed from the program. Students subject to dismissal for a cumulative grade-point average below 3.00 may appeal to the department, which may grant one additional semester of probation at its discretion.

- b. Delete the section **Transfer Credits**.

Effective Fall 2026.

- 2. Change the **Graduation Requirements for the Doctor of Philosophy Degree** statement in the **College of Engineering**. The University Committee on Graduate Studies (UCGS) approved this request at its February 23, 2026 meeting.

- a. Under the heading **Academic Standards** replace item 5. a. with the following:

Cumulative Grade–Point Average. Should a student's cumulative grade–point average fall below 3.00 after having completed 6 or more credits in courses in the approved program of study, the student may be enrolled in probational status in the doctoral degree program for one additional semester. If at the end of the additional semester the student's cumulative grade–point average is 3.00 or higher, the student may continue to enroll in the doctoral degree program. If at the end of the additional semester the student's cumulative grade–point average is still below 3.00, the student will be dismissed from the program. Students subject to dismissal for a cumulative grade-point average below 3.00 may appeal to the department, which may grant one additional semester of probation at its discretion.

Effective Fall 2026.

- 3. Change the requirements in the **Bachelor of Science** degree in **Environmental Engineering** in the Department of Civil and Environmental Engineering.

- a. Under the heading **Requirements for the Bachelor of Science Degree in Environmental Engineering** make the following changes:

- (1) Replace item 3. b. with the following:

One of the following courses (4 credits):

CEM	142	General and Inorganic Chemistry	4
CEM	152	Principles of Chemistry	4

- (2) In item 3. e. **Technical Electives** delete the following course:

CSS	455	Environmental Pollutants in Soil and Water	3
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Add the following courses:

FW	410	Upland Ecology and Management	3
FW	416	Marine Ecology and Management	3
FW	439	Conservation Ethics	3
HRT	460	Green Roofs and Walls	2
MC	450	International Environmental Law and Policy	3
PLB	443	Restoration Ecology	3
SOIL	455	Environmental Pollutants in Soil and Water	3

Effective Fall 2026.

JAMES MADISON COLLEGE

1. Change the requirements for the **Bachelor of Arts** degree in **James Madison College**.
 - a. Under the heading **Requirements for the Bachelor of Arts Degree in James Madison College** make the following changes:
 - (1) In item 2. a., add the following course:

MC	100	The First Year Experience	1
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 - (2) Delete item 2. f.

Effective Fall 2026.

2. Change the name of the **Bachelor of Arts** degree in **Comparative Cultures and Politics** in James Madison College to **Politics, Rights, and Culture**.

Effective Fall 2026, no new students are to be admitted to the Bachelor of Arts degree in Comparative Cultures and Politics. Effective Fall 2026, no students are to be readmitted to the Bachelor of Arts degree in Comparative Cultures and Politics. Effective Fall 2026, coding for the Bachelor of Arts degree in Comparative Cultures and Politics will be discontinued and the program will no longer be available in James Madison College. Effective Fall 2026, students admitted to the major will be awarded a Bachelor of Arts degree in Politics, Rights, and Culture.

3. Change the requirements in the **Bachelor of Arts** degree **Politics, Rights, and Culture** in James Madison College.

Please note: The Politics, Rights, and Culture major will no longer be available for teacher certification. Students pursuing teacher certification in James Madison College need to be admitted to the Public Affairs for Secondary Education major in the college.

- a. Under the heading **Requirements for the Bachelor of Arts Degree in Politics, Rights, and Culture** make the following changes:
 - (1) Under the heading **Politics, Rights, and Culture**, item 1. b. COMPARATIVE STUDIES and TRANSNATIONAL STUDIES, delete the following course:

MC	395	Cultural Dimensions of Public Affairs	4
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Effective Fall 2026.

4. Change the requirements for the **Bachelor of Arts** degree in **James Madison College [International Relations]**.

Please note: The International Relations major will no longer be available for teacher certification. Students pursuing teacher certification in James Madison College need to be admitted to the Public Affairs for Secondary Education major in the college.

- a. Under the heading **Requirements for the Bachelor of Arts Degree in James Madison College** make the following changes:
 - (1) Under the heading **International Relations** make the following changes:
 - (a) In item 1. c. (1) delete the following courses:

MC	323	Japanese Foreign Policy	4
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MC	327	The Comparative Analysis of Foreign Policy	4
MC	395	Cultural Dimensions of Public Affairs	4

Add the following course:

MC	483	Simulating International Relations	4
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(b) In item 1. c. (2) delete the following course:

MC	395	Cultural Dimensions of Public Affairs	4
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(c) In item 1. c. (3) delete the following courses:

MC	368	The Civil Rights Movement and its Legacies	4
MC	395	Cultural Dimensions of Public Affairs	4

(d) In item 1. c. (4) delete the following course:

MC	395	Cultural Dimensions of Public Affairs	4
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Add the following courses:

MC	319	Asian American History	4
MC	337	Global Public Health	4

In the note following, delete James Madison College 395.

(e) In item 1. d. (1) Course B, delete the following courses

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(f) In item 1. d. (2) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(g) In item 1. d. (3) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(h) In item 1. d. (4) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(i) In item 1. d. (5) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(j) In item 1. d. (6) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(k) In item 1. d. (7) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(l) In item 1. d. (8) Course B, delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
PHL	330	Formal Reasoning	4

Add the following courses:

MC	294	Qualitative Research Methods	4
PHL	331	Formal Practical Reasoning	4

(m) In item 1. d. (9) Course A, delete the following course:

MC	294	Qualitative Research Methods	4
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In Course B, delete the following courses:

PHL	330	Formal Reasoning	4
PLS	201	Introduction to Methods of Political Analysis	4

Add the following courses:

PHL	331	Formal Practical Reasoning	4
PLS	201	Introduction to Methods of Political Analysis	3

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

HST	337	European Power, Culture, and Thought Renaissance to the Enlightenment	4
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(o) In item 1. e. (2) delete the following courses:

EC	306	Comparative Economic Systems	3
EC	406	Economic Analysis of Russia and the Commonwealth of Independent States (W)	3
EC	412	Economic Analysis of Latin America (W)	3

Effective Summer 2026.

5. Change the requirements for the **Bachelor of Arts** degree in **James Madison College [Political Theory and Constitutional Democracy]**.

Please note: The Political Theory and Constitutional Democracy major will no longer be available for teacher certification. Students pursuing teacher certification in James Madison College need to be admitted to the Public Affairs for Secondary Education major in the college.

- a. Under the heading **Requirements for the Bachelor of Arts Degree in James Madison College** make the following changes:

- (1) Under the heading **Political Theory and Constitutional Democracy** make the following changes:

- (a) In item 1. c. delete the following course:

MC	395	Cultural Dimensions of Public Affairs	4
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- (b) In item 1. d. delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
One college-level mathematics course selected from Mathematics 126, 133, 152H, 153H.			

Add the following courses:

MC	294	Qualitative Research Methods	4
MTH	124	Survey of Calculus I	3
MTH	126	Survey of Calculus II	3
MTH	132	Calculus I	3
MTH	133	Calculus II	4
MTH	152H	Honors Calculus I	3
MTH	153H	Honors Calculus II	4
PHL	331	Formal Practical Reasoning	4

Add the following note:

If a MTH course is used to fulfill this requirement, it may not be used to fulfill the university mathematics requirement.

Effective Summer 2026.

6. Change the requirements for the **Minor in Political Economy** in James Madison College.

- a. Under the heading **Requirements for the Minor in Political Economy** make the following changes:

- (1) In item 2. under **Economic Analysis Methodology** delete the following courses:

MC	293	Methods for Strategic Analysis in Public Affairs	4
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Add the following courses:

MC	349	Economics of Legal Relationships in Comparative Perspective	4
MC	361	Political Economy and comparative Public Policymaking	4
MC	380	Social Policy	4
MC	381	American Politics and Equality	4
MC	430	Applied International Development	4

- (2) In item 3. under **Society and Political Economy in Policymaking** delete the following courses:

EC	495	Economics of Poverty and Income Distribution (W)	3
EEP	255	Ecological Economics	3
EEP	320	Environmental Economics	3
EEP	404	Public Sector Budgeting and Program Evaluation (W)	3
GEO	415	Location Theory and Land Use Analysis	3
LB	334	Science, Technology and Public Policy (W)	4

Add the following courses:

AFRE	265	Ecological Economics	3
AFRE	360	Public Sector Budgeting and Program Evaluation (W)	3
MC	342	Social Economics of the Workplace: Class, Race, and Gender	3

- (3) In item 3. under **Political Economy in International Relations** delete the following courses:

ABM	400	Public Policy Issues in the Agri-Food System	3
EC	406	Economic Analysis of Russian and the Commonwealth of Independent States (W)	3
EC	412	Economic Analysis of Latin American (W)	3

- (4) In item 3. under **Political Economy and Public Affairs in Comparative Perspectives** delete the following course:

EC	306	Comparative Economic Systems	3
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Effective Fall 2026.

7. Change the requirements for the **Bachelor of Arts** degree in **James Madison College [Social Relations and Policy]**.

Please note: The Social Relations and Policy major will no longer be available for teacher certification. Students pursuing teacher certification in James Madison College need to be admitted to the Public Affairs for Secondary Education major in the college.

Effective Fall 2026.

COLLEGE OF LAW

1. Change the requirements for the **Juris Doctor** degree in the Michigan State University College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 23, 2026 meeting.

The concentrations in the Juris Doctor degree are noted on the student's academic record when the requirements for the degree have been completed.

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

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

LAW	604	Bar Exam Success Fundamentals	3
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- (2) Replace item 3. with the following:

After the first year of curriculum, students below a cumulative grade-point average of 2.50 must complete all of the following courses:

LAW	500M	Business Enterprises	3 or 4
LAW	500N	Constitutional Law II	4
LAW	500P	Evidence	3 or 4
LAW	541E	Family Law i: Marriage and Divorce	3
LAW	616B	Criminal Procedure: Investigation	3
LAW	624	Directed Study	1 or 2

Students must obtain approval by the Associate Dean for Academic Affairs to enroll in LAW 624.

- (3) In the **Indigenous Law** concentration, delete the following course from item (2):

LAW	635G	Global Perspectives on Indigenous People	2
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- (4) In the **Trial Practice** concentration, delete the following courses from the note:

LAW 587B, 587C, 590A, and 617B

Effective Fall 2026.

COLLEGE OF NATURAL SCIENCE

1. Change the requirements in the **Bachelor of Science** degree in **Genetics and Genomics** in the Department of Microbiology, Genetics, and Immunology.

- a. Under the heading **Requirements for the Bachelor of Science Degree in Genetics and Genomics** make the following changes:

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

The University's Tier II writing requirement for the Genetics and Genomics major is met by completing Microbiology, Genetics, and Immunology 408 or 434. Those courses are referenced in item 3. b. (2) below.

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

- (a) Change the total credits from '45 to 55' to '48 to 59'.
- (b) In item (4) (a) change the credits of 'CEM 142' from '3' to '4'.
- (c) In item (4) (b) change the credits of 'LB 172' from '4' to '3'.
- (d) In item (4) (c) change the credits of 'CEM 152' from '3' to '4'.

- (e) In item (5) change the total credits from '8' to '9 or 10'.
 - (f) In item (5) (a) change the credits of 'CEM 251 and 252' from '3' to '4'.
 - (g) In item (5) (b) change the credits of 'CEM 351 and 352' from '3' to '4'.
 - (h) In item (5) (c) change the credits of 'CEM 252' from '3' to '4'.
 - (i) In item (7) change the total credits from '6 to 8' to '8 or 10'.
 - (j) In item (8) (b) change the credits of 'STT 231' from '3' to '4'.
- (3) In item 3. b. change the total credits from '20' to '20 or 21'.
- (4) In item 3. b. (1) change the total credits from '13' to '14 and change the credits of 'MGI 302' from '1' to '2'.
- (5) In item 3. b. (2) delete the following course:
- | | | | |
|-----|------|--|---|
| MGI | 494L | Summer Undergraduate Research Institute I Genomics (W) | 3 |
|-----|------|--|---|
- (6) In item 3. c. delete the following courses:
- | | | | |
|-----|-----|--|---|
| CSS | 350 | Introduction to Plant Genetics | 3 |
| CSS | 451 | Biotechnology Applications for Plant Breeding and Genetics | 3 |
- Add the following courses:
- | | | | |
|------|-----|--|---|
| CROP | 350 | Introduction to Plant Genetics | 3 |
| CROP | 451 | Biotechnology Applications for Plant Breeding and Genetics | 3 |
| CROP | 460 | Plant-Microbe Interactions | 3 |

Effective Fall 2026.

2. Change the requirements in the **Bachelor of Science** degree in **Microbiology** in the Department of Microbiology, Genetics, and Immunology.
- a. Under the heading **Requirements for the Bachelor of Science Degree in Microbiology** make the following changes:
- (1) In item 1., replace paragraph two with the following:

The University's Tier II writing requirement for the Microbiology major is met by completing Microbiology, Genetics, and Immunology 408. That course is referenced in item 3. b. (1) below.
 - (2) In item 3. a. make the following changes:
 - (a) Change the total credits from '41 to 51' to '42 to 53'.
 - (b) In item (4) (a) change the credits of 'CEM 142' from '3' to '4'.
 - (c) In item (4) (b) change the credits of 'LB 172' from '4' to '3'.
 - (d) In item (4) (c) change the credits of 'CEM 152' from '3' to '4'.
 - (e) In item (5) change the total credits from '8' to '9 or 10'.
 - (f) In item (5) (a) change the credits of 'CEM 251 and 252' from '3' to '4'.
 - (g) In item (5) (b) change the credits of 'CEM 351 and 352' from '3' to '4'.

- (h) In item (5) (c) change the credits of 'CEM 252' from '3' to '4'.
- (i) In item (6) (c) add the following courses:

PHY	191	Physics Laboratory for Scientists, I	1
PHY	192	Physics Laboratory for Scientists, II	1
- (j) In item (6) (d) add the following courses:

PHY	191	Physics Laboratory for Scientists, I	1
PHY	192	Physics Laboratory for Scientists, II	1
- (k) In item (7) (b) change the credits of 'STT 231' from '3' to '4'.
- (3) In item 3. b. change the total credits from '16' to '17'.
- (4) In item 3. b. (1) change the total credits from '10' to '14' and change the credits of 'MGI 302' from '1' to '2'.
- (5) In item 3. b. (1) add the following course:

MGI	408	Advanced Microbiology Laboratory (W)	3
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- (6) Delete item 3. b. (2).
- (7) Renumber item 3. b. (3) to item 3. b. (2).
- (8) In item 3. c. make the following changes:
 - (a) Change the total credits from '12 or 13' to '12 to 14'.
 - (b) Delete the following course:

MGI	445	Microbial Technology (W)	3
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Add the following courses:

CROP	460	Plant-Microbe Interactions	3
ENT	460	Medical Entomology	3

Effective Fall 2026.

- 3. 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** in item 3. make the following changes:
 - (1) In item 1., replace paragraph two with the following:

The University's Tier II writing requirement for the Environmental Biology/Microbiology major is met by completing Microbiology, Genetics, and Immunology 408. That course is referenced in item 3. b. (1) below.
 - (2) In item 3. a. make the following changes:
 - (a) Change the total credits from '58 to 68' to '59 to 70'.
 - (b) In item (2) delete the following course:

CSS	210	Fundamentals of Soil Science	3
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Add the following course:

SOIL 210 Fundamentals of Soil Science 3

- (c) In item (5) (a) change the credits of 'CEM 142' from '3' to '4'.
 - (d) In item (5) (c) change the credits of 'CEM 152' from '3' to '4'.
 - (e) In item (6) change the total credits from '8' to '9 or 10'.
 - (f) In item (6) (a) change the credits of 'CEM 251 and 252' from '3' to '4'.
 - (g) In item (6) (b) change the credits of 'CEM 351 and 352' from '3' to '4'.
 - (h) In item (6) (c) change the credits of 'CEM 252' from '3' to '4'.
 - (i) In item (7) (b) change the credits of 'STT 231' from '3' to '4'.
- (3) In item 3. b. change the total credits from '19' to '20'.
- (4) In item 3. b. (1) change the total credits from '13' to '17 and change the credits of 'MGI 302' from '1' to '2'.
- (5) In item 3. b. (1) add the following course:
- MGI 408 Advanced Microbiology Laboratory (W) 3
- (6) Delete item 3. b. (2).
- (7) Renumber item 3. b. (3) to item 3. b. (2).
- (8) In item 3. c. make the following changes:
- (a) In item (1) delete the following course:
CSS 455 Environmental Pollutants in Soil and Water 3
- Add the following course:
- SOIL 455 Environmental Pollutants in Soil and Water 3
- (b) Add the following item (10):
CROP 460 Plant-Microbe Interactions 3
MGI 461 Microbial Pathogenesis 3
ENT 460 Medical Entomology 3

Effective Fall 2026.

COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the **Minor in Chicano/Latino Studies** in the College of Social Science.

a. Under the heading **Requirements for the Minor in Chicano/Latino Studies** replace the entire entry with the following:

The student must complete a total of 15 credits including:

1. The following course:

	CLS 201	Introduction to Chicano/Latino Studies	3
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2. Complete at least one course from the College of Social Science (3 credits):

	ANP 330	Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity	3
	ANP 411	North American Indian Ethnography	3
	CLS 490	Independent Study in Chicano/Latino Studies	3
	CLS 493	Internship in Chicano/Latino Studies	1 to 6
	GEO 335	Geography of Latin America	3
	HST 281	Atlantic Slavery	3
	HST 301	Indigenous-European Encounters in North America	3
	HST 307	Labor History of the United States to 1863: Making a North American Working Class	3
	HST 384	Modern Mexico	3
	HST 397	Global Soccer	3
	PLS 304	Minority Politics	3
	PLS 352	Latin American Politics	3
	SOC 214	Social Inequality	3
	SOC 310	Global Migration	3
	SSC 399	Service Learning and Civic Engagement: Theory and Practice	1 to 6

Relevant courses related to the topics of the Chicano/Latino Studies minor and/or completed in study abroad, study away, or IEM spring break can be requested for approval by Chicano/Latino Studies Director.
3. At least one course from outside the College of Social Science (a minimum of 3 credits):

	ENG 351	Readings in Chicano and Latino Literatures	3
	GSAH 311	Global Perspectives on Borders and Migration	3
	GSAH 314	Race, Gender and Global Identities	3
	HA 253	Native North American Art	3
	PHL 212	Latin American Philosophy	3
	PHL 353	Core Themes in Peace and Justice Studies	3
	SPN 350	Introduction to Reading Hispanic Literature (W)	3
	SPN 432	Latin America and its Literature	3
	REL 205	Myth, Self and Religion	3
	REL 320	Christianity	3
	TE 352	Migration and Education	3
4. Complete at least one additional course from either Requirement 2. or Requirement 3. (3 credits)
5. The following capstone course (3 credits):

	CLS 492	Chicano and Latino Studies: Research, Theory and Practice	3
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Effective Fall 2026.

2. Change the requirements for the **Minor in Social Science Quantitative Data Analytics** in the Department of Economics.

a. Under the heading **Requirements for the Minor in Social Science Quantitative Data Analytics** make the following changes:

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

GEO	221	Introduction to Geographic Information	3
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- (2) In item 3., add the following course:

EC	423	Model-Based Analytics	3
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- (3) Change requirement 4. to the following:

The following capstone course (3 credits):			
EC	242	Social Science Data Analytics	3

Effective Summer 2026.

3. Change the requirements for the **Master of Science** degree in **Child Development** in the Department of Human Development and Family Studies. The University Committee on Graduate Studies (UCGS) approved this request at its February 23, 2026 meeting.

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

The Master of Science Degree in Child Development is available under Plan A (with thesis) or Plan B (without thesis). A total of 30 credits is required for Plan A and Plan B. Plan B master's students may choose from two concentrations: Early Childhood Leadership, Administration, and Policy (30 credits) or Early Childhood Development and Practices (30 credits).

	CREDITS
Requirements for Plan A	
1. All of the following courses (24 credits):	
HDFS 811 Lifespan I: Prenatal to Pre-Adolescence	3
HDFS 825 Families of Children with Special Needs: An Ecological Perspective	3
HDFS 840 Families in Social and Cultural Contexts	3
HDFS 880 Research Design and Measurement	3
HDFS 881 Quantitative Methods in Human Development	3
Two additional developmental electives chosen in consultation with the student's advisor, with at least one in HDFS	6
2. Complete 6 credits of HDFS 899 Master's Thesis Research.	

Requirements for Plan B

One of the following concentrations:

Early Childhood Leadership, Administration, and Policy (30 credits)

- 1. All of the following courses (18 credits):

HDFS	473	Administration of Early Childhood Programs	3
HDFS	811	Lifespan I: Prenatal to Pre-Adolescence	3
HDFS	825	Families of Children with Special Needs: An Ecological Perspective	3
HDFS	840	Families in Social and Cultural Contexts	3
HDFS	865	Capstone GPIDEA	3

An additional elective chosen in consultation with the student's academic advisor 3
 Students who have taken HDFS 449 as an undergraduate student may substitute this course for HDFS 825.
- 2. All of the following courses (12 credits):

These courses are to be taken through the Innovative Digital Education Alliance (IDEA). These courses are offered online only and may be taught by faculty at another university participating in the IDEA.

HDFS 805	Early Childhood Education and Care Policy I: History, Child Development, and Equity	3
HDFS 806	Early Childhood Education and Care Policy II: Examining Practices, Policies, and Key Issues	3
HDFS 807	Early Childhood Education and Care Policy III: Theory, Analysis and Research	3
HDFS 808	Early Childhood Education and Care Policy IV: Policy Leadership and Policy Advocacy	3
3.	Complete and successfully present a capstone project related to the student's interests and career goals.	

Early Childhood Development and Practices (30 credits)

1.	All of the following courses (15 credits):	
	HDFS 473 Administration of Early Childhood Programs	3
	HDFS 811 Lifespan I: Prenatal to Pre-Adolescence	3
	HDFS 825 Families of Children with Special Needs: An Ecological Perspective	3
	HDFS 840 Families in Social and Cultural Contexts	3
	HDFS 865 Capstone GPIDEA	3
	Students who have taken HDFS 449 as an undergraduate student may substitute this course for HDFS 825.	
2.	Complete 6 credits in two additional developmental electives chosen in consultation with the student's academic advisor, with at least one in HDFS.	
3.	Complete 9 credits in three electives at the 800-level in HDFS chosen in consultation with the student's academic advisor.	
4.	Complete and successfully present a capstone project related to the student's interests and career goals.	

Effective Fall 2026.

4. Change the requirements for the **Master of Science** degree in **Human Development and Family Studies** in the Department of Human Development and Family Studies. The University Committee on Graduate Studies (UCGS) approved this request at its February 23, 2026 meeting.
- a. Under the heading **Requirements for the Master of Science Degree in Human Development and Family Studies** replace the entire entry with the following:

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

CREDITS

Requirements for Both Plan A and Plan B

1.	All of the following courses (21 credits):	
	HDFS 811 Lifespan I: Prenatal to Pre-Adolescence	3
	HDFS 812 Lifespan II: Adolescence, Adulthood, and Aging	3
	HDFS 840 Families in Social and Cultural Contexts	3
	HDFS 880 Research Design and Measurement	3
	HDFS 881 Quantitative Methods in Human Development	3
	Two additional human diversity electives within HDFS chosen in consultation with the student's advisor	6

Additional Requirements for Plan A

1. Complete one additional elective course of 3 credits chosen in consultation with the student's advisor.
2. Complete 6 credits of HDFS 899 Master' Thesis Research.
3. Complete and successfully defend a master's thesis.

Additional Requirements for Plan B

1. Complete two additional elective courses totaling 6 credits chosen in consultation with the student's advisor.
2. Complete HDFS 865 Capstone GPIDEA 3
3. Complete and successfully present a capstone project related to the student's interest and career goals.

Effective Fall 2026.

5. Change the requirements for the **Doctor of Philosophy** degree in **Human Development and Family Studies** in the Department of Human Development and Family Studies. The University Committee on Graduate Studies (UCGS) approved this request at its February 23, 2026 meeting.

- a. Under the heading **Requirements for the Doctor of Philosophy Degree in Human Development and Family Studies**, replace the entire entry with the following:

Students in the doctoral program in human development and family studies are required to complete the following:

- | | | CREDITS |
|----|--|---------|
| 1. | All of the following courses in Human Development and Family Studies scholarly foundations (6 to 12 credits): | |
| | HDFS 811 Lifespan I: Prenatal to Pre-Adolescence | 3 |
| | HDFS 812 Lifespan II: Adolescence, Adulthood, and Aging | 3 |
| | HDFS 840 Families in Social and Cultural Contexts | 3 |
| | HDFS 901 Contemporary Scholarship in Human Development and Family Studies | 3 |
| | Couple and Family Therapy students are exempted from HDFS 811 and 812 if the requirement has already been met in the master's program. | |
| 2. | All of the following courses in foundational methodology and statistics (9 credits): | |
| | HDFS 880 Research Design and Measurement | 3 |
| | HDFS 881 Quantitative Methods in Human Development | 3 |
| | HDFS 960 Applied Multivariate Data Analysis | 3 |
| 3. | Completion of 24 credits in HDFS 999 Doctoral Dissertation Research. | |
| 4. | Completion of one of the following concentrations: | |
| | Child Development | |
| | Complete the following courses (18 credits): | |
| | a. Two courses in Advanced Topics in Child Development (6 credits) | |
| | b. One HDFS diversity course selected in consultation with the student's advisor. Diversity is defined broadly and could include diversity in race or ethnicity, culture, developmental abilities, or socioeconomic status (3 credits) | |
| | c. Three additional advanced methods courses in consultation with the student's advisor (9 credits) | |
| | Couple and Family Therapy | |
| | Complete all of the following (24 credits): | |
| | HDFS 888 Diverse Families and Communities: Interventions and Strategies | 3 |
| | HDFS 903 Evidence-Based Couple and Family Therapy Intervention Programs | 3 |
| | HDFS 910 Contemporary Couple and Family Therapy Theories | 3 |
| | HDFS 925 Grant-Writing for Human Development and Family Studies | 3 |
| | HDFS 982 Qualitative Research Methods | 3 |
| | HDFS 983 Advanced Methods in Intervention Research | 3 |
| | HDFS 994 Advanced Evidence-Based Couple Therapy | 3 |
| | HDFS 995 Couple and Family Therapy Supervision | 3 |
| | <i>Clinical Requirements</i> (a minimum of 7 credits): | |
| | HDFS 993 Internship | 7 |
| | Doctoral students are required to complete a total of 1,000 hours of direct client contact before graduating (pre-doctoral and doctoral hours combined). | |

The Couple and Family Therapy Program at Michigan State University has been accredited by The Commission on Accreditation for Marriage and Family Therapy Education of the American Association for Marriage and Family Therapy. Students entering the doctoral concentration in Couple and Family Therapy will be required to meet equivalent of the master's Standard Curriculum of the Commission on Accreditation of Marriage and Family Therapy Education (COAMFTE).

Diversity, Youth, and Family Development

Complete all of the following (18 credits):

HDFS 842	African American Families	3
HDFS 843	Latinx Families	3
HDFS 887	Decolonizing and Humanizing Research in Human Development	3
HDFS 982	Qualitative Research Methods	3

One additional advanced method course and one additional course in consultation with the student's academic advisor. 6

5. Training in Responsible and Ethical Conduct of Research (RECR).
6. Successfully pass the comprehensive examination.
7. Successfully propose and defend the doctoral dissertation.
8. Complete the HDFS PhD Portfolio, including:
 - a. Minimum of two conference presentations
 - b. Authorship on a minimum of one peer-reviewed publication
 - c. Research statement
 - d. Teaching philosophy statement
 - e. Curriculum Vitae

Effective Fall 2026.

PART II - NEW COURSES

DEPARTMENT OF COMMUNITY SUSTAINABILITY

- CSUS 466 Michigan Trail Building Law and Policy
Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement RB: (CSUS 273 or concurrently) or (CSUS 276 or concurrently) R: Not open to freshmen or sophomores.
Examination, application, and development of Michigan trail building laws and policies.
Effective Fall Semester 2026

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES

- HDFS 828 Advanced Topics in Child Development
Spring of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Contemporary theory, research, and applied issues in development from early childhood through adolescence; topics vary in focal age and developmental domain.
Effective Fall Semester 2026
- HDFS 843 Latinx Families
Spring of odd years. 3(3-0)
Current issues in theory, methods, and research on Latinx youth and family development.
Effective Fall Semester 2026
- HDFS 887 Decolonizing and Humanizing Research in Human Development
Fall of even years. 3(3-0)
Examines the role of imperialism and coloniality in formation of academic disciplines and construction of knowledge in order to advance more culturally inclusive and humanizing human development and family research.
Effective Fall Semester 2026
- HDFS 925 Grant-Writing for Human Development & Family Studies
Spring of odd years. 3(3-0) P: HDFS 880 R: Open to doctoral students in the Department of Human Development and Family Studies.
Knowledge and skills to prepare grant proposals for federal funding agencies and other funding sources.
Effective Fall Semester 2026

PART III – COURSE CHANGES

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

- CE 221 Statics
Fall of every year. Spring of every year. 3(3-0) ~~Interdepartmental with Mechanical Engineering P: ((PHY 183 or PHY 183B or PHY 193H) or (PHY 231 and PHY 233B)) and ((MTH 234 or concurrently) or (LB 220 or concurrently) or (MTH 254H or concurrently))~~ P: ((PHY 183 or PHY 193H) or (PHY 231 and PHY 233)) and ((MTH 234 or concurrently) or (LB 220 or concurrently) or (MTH 254H or concurrently))
Vector description of forces and moments. Two- and three- dimensional equilibrium of particles and rigid bodies. Analysis of trusses, frames, and machines. Coulomb friction.
SA: MSM-205
Effective Fall Semester 2026
- CE 273 Civil and Environmental Engineering Measurements
Fall of every year. Spring of every year. 2(1-3) ~~P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (EGR 102 or concurrently)~~ P: ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently)) and (EGR 102 or concurrently)
Measurements, surveying and error analysis with applications to civil and environmental engineering problems
SA: CE-274
Effective Fall Semester 2026
- CE 305 Introduction to Structural Analysis
Fall of every year. Spring of every year. 3(3-0) ~~P: ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently) and CE 274~~ P: (ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently)) and (CE 271 or ENE 380) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering.
Theory of structural analysis for statically determinate structures. Qualitative structural analysis and behavior. Load estimation and placement. Introduction to structural analysis computer software. Introduction to statically indeterminate structures.
Effective Fall Semester 2026
- CE 312 Soil Mechanics
Fall of every year. Spring of every year. 4(3-3) ~~P: (ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently) and (CE 271 or concurrently)) and completion of Tier I writing requirement~~ P: ((ME 222 and (CE 273 or concurrently) and (CE 274 or concurrently)) and completion of Tier I writing requirement) and ((CE 271 or concurrently) or ENE 380) ~~R: Open to juniors or seniors in the Department of Civil and Environmental Engineering and open to juniors or seniors in the Biosystems Engineering major.~~ R: Open to juniors or seniors in the Department of Civil and Environmental Engineering and open to juniors or seniors in the Biosystems Engineering Major.
Engineering properties of soil and their measurement. Effective-stress concept. Permeability and seepage. Compaction. Consolidation, shear strength, and stress-strain behavior.
Effective Fall Semester 2026
- CE 337 Civil Engineering Materials
Fall of every year. Spring of every year. 4(3-3) ~~P: ((ME 222 or concurrently) and (CE 273 or concurrently) and (CE 274 or concurrently) and CE 271) and completion of Tier I writing requirement~~ P: ((ME 222 or concurrently) and (CE 273 or concurrently) and (CE 274 or concurrently)) and completion of Tier I writing requirement) and (CE 271 or ENE 380) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering.
Common civil engineering construction and paving materials: aggregates, inorganic cements, asphalts, concretes, wood, and steel. Composition, structure, physical and mechanical properties, tests, and production mix design.
Effective Fall Semester 2026

- CE 341 Transportation Engineering
Fall of every year. Spring of every year. 3(3-0)-P: ~~((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently)) and (((CE 273 or concurrently) and (CE 274 or concurrently) and CE 271) and completion of Tier I writing requirement) and (CE 372 or concurrently) P: ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently)) and (((CE 273 or concurrently) and (CE 274 or concurrently)) and completion of Tier I writing requirement) and (CE 372 or concurrently) and (CE 271 or ENE 380) R: Open to juniors or seniors in the Department of Civil and Environmental Engineering.
Fundamentals of transportation planning, traffic flow and level-of-service, traffic signal design, geometric design of highways, and highway safety.
Effective Fall Semester 2026~~
- CE 361 Computational Methods in Civil Engineering
Spring of every year. 3(3-0)-P: ~~(EGR 102 and CE 221 and CE 271) and (MTH 235 or MTH 340 or MTH 347H) P: (EGR 102 and CE 221) and (MTH 235 or MTH 340 or MTH 347H) and (CE 271 or ENE 380) R: Open to juniors or seniors or graduate students in the Civil Engineering Major. Not open to students with credit in ME 361.~~
Theoretical, numerical, and computational methods for civil engineering problems. Physical modeling, numerical techniques, and programming methods. Focus on civil engineering dynamics, solving systems of differential equations, and visualizing the results.
SA: CE 390, CE 461
Effective Fall Semester 2026
- CE 473 Smart and Sustainable Building Design and Operations
Fall of every year. 3(3-0)-P: ~~CE 371 or approval of department P: ENE 371 or approval of department~~
Elements of the design and operation of smart and sustainable buildings. Current and future energy-related challenges of existing buildings.
Effective Fall Semester 2026
- ENE 380 Principles of Environmental Engineering and Science
Fall of every year. 3(3-0)-P: ~~(CEM 142 or CEM 152 or LB 172) and (MTH 133 or MTH 153H or LB 149) and CE 274 P: (CEM 141 or CEM 151 or LB 171) and (MTH 133 or MTH 153H or LB 119) and CE 271~~
Physical, chemical and biological processes related to environmental science and engineering. Analysis of environmental problems and solutions. Mass balance modeling of contaminant fate, transport and removal in environmental media engineering.
SA: ENE 280
Effective Fall Semester 2026
- ENE 422 Applied Hydraulics
Spring of every year. 3(2-2)-P: ~~CE 321 or ME 332 P: (CE 321) or (ME 333 and ME 333L) R: Open to juniors or seniors or graduate students in the College of Engineering.~~
Fundamentals of open-channel flow. Rapidly and gradually varied nonuniform flow analysis. Confined flows past submerged bodies, in pipe networks, and in turbo machinery. Design applications.
Effective Fall Semester 2026
- ENE 489 Air Pollution: Science and Engineering
Spring of every year. 3(3-0)-P: ~~(CEM 141 or CEM 151 or LB 171) and (MTH 133 or MTH 153H or LB 119) and (ENE 380 or BE 230) and (CE 321 or CHE 311) and (CE 372 or CHE 316) and ((ME 201 or concurrently) or (BE 351 or concurrently) or (CHE 321 or concurrently)) P: (CEM 141 or CEM 151 or LB 171) and (MTH 133 or MTH 153H or LB 119) and (ENE 380 or BE 230 or CHE 210) and (CE 321 or CHE 311) and (CE 372 or CHE 316) and ((ME 201 or concurrently) or (BE 351 or concurrently) or (CHE 321 or concurrently)) R: Open to juniors or seniors or graduate students in the College of Engineering.~~
Basic physical and chemical principles governing indoor and atmospheric air pollutant fate, transport and control technologies.
Effective Fall Semester 2026

SCHOOL OF CRIMINAL JUSTICE

- CJ 345 Cyber-Crime and Cyber-Security
Fall of every year. 3(3-0) P: (CJ 110 and CJ 220) and completion of Tier I writing requirement ~~R: Open to juniors or seniors in the Criminal Justice Major or in the Security Management Minor or in the Peace and Justice Studies Minor or approval of school.~~ R: Open to sophomores or juniors or seniors in the Criminal Justice Major or in the Peace and Justice Studies Minor or in the Security Management Minor or approval of school.
Internet crimes and problems and procedures for cybersecurity.
SA: CJ 445
Effective Fall Semester 2026

DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES

- GLG 303 Oceanography
Fall of every year. 3(3-0) Interdepartmental with Integrative Biology ~~P: (CEM 141 or CEM 181H or LB 171 or CEM 151) and (PHY 231 or PHY 183 or PHY 193H or LB 273 or PHY 183B or PHY 231C or PHY 241 or PHY 173 or PHY 224)~~ P: CEM 141 or CEM 181H or LB 171 or CEM 151
Physical, chemical, biological, and geological aspects of oceanography: ocean circulation, waves, tides, air-sea interactions, chemical properties of ocean water, ocean productivity, shoreline processes, and sediments.
Effective Fall Semester 2026
- GLG 433 Vertebrate Paleontology
Fall of even years. 4(3-2) Interdepartmental with Integrative Biology P: IBIO 328 or GLG 304 or IBIO 360 or IBIO 365 or IBIO 384 or IBIO 445 or GLG 434 or FW 471
Fossil vertebrates with emphasis on evolution and interrelationships of major groups. Modern techniques of identification and interpretation of fossils.
DELETE COURSE
Effective Fall Semester 2026

DEPARTMENT OF ECONOMICS

- EC 242 Social Science Data Analytics
Fall of every year. Spring of every year. 3(3-0) P: PLS 202 ~~Not open to students with credit in SSC 442.~~
Application of computational tools for data collection and visualization to various topics in social science research.
SA: SSC 442
Effective Fall Semester 2026

DEPARTMENT OF ENTOMOLOGY

- ENT 477 Pesticides in Pest Management
Fall of even years. 3(3-0) ~~Interdepartmental with Crop and Soil Sciences, Horticulture~~ Interdepartmental with Cropping Systems Science, Horticulture RB: General chemistry, entomology, plant pathology, weed science. R: Open to juniors or seniors or graduate students.
Chemistry, modes of action, product development and regulation of pesticides. Environmental and social aspects of pesticide use.
Effective Fall Semester 2026
- ENT 478 Integrated Pest Management (W)
Spring of odd years. 3(3-0) ~~Interdepartmental with Crop and Soil Sciences, Forestry, Horticulture~~ Interdepartmental with Cropping Systems Science, Forestry, Horticulture P: (ENT 404 or PLP 405) and completion of Tier I writing requirement
Theory, philosophy and application of pest management focusing on agricultural and natural systems.
Effective Fall Semester 2026

DEPARTMENT OF HORTICULTURE

- HRT 251 Organic Farming Principles and Practices
~~Spring of every year. Fall of every year. 3(3-0) Interdepartmental with Crop and Soil Sciences~~
History and principles of organic farming. Farms as ecological systems. Certification process and agencies. Organic matter management, the soil food web, and nutrient availability. Biodiversity, crop rotations, plant competition, ground cover, and plant health. Integrating crops and animals. Organic animal husbandry. Field trip required. History and principles of organic farming. Farms as ecological systems. Certification process and agencies. Organic matter management, the soil food web, and nutrient availability. Biodiversity, crop rotations, plant competition, ground cover, and plant health. Integrating crops and animals. Organic animal husbandry.
Effective Fall Semester 2026
- HRT 461 Seminar in Plant, Animal and Microbial Biotechnology
Spring of every year. 1(1-0) ~~Interdepartmental with Animal Science, Biosystems Engineering, Crop and Soil Sciences~~ Interdepartmental with Animal Science, Biosystems Engineering, Cropping Systems Science P: (ANS 425 or concurrently) or (BE 360 or concurrently) or (CSS 451 or concurrently) or (MMG 445 or concurrently) P: (ANS 425 or concurrently) or (BE 360 or concurrently) or (CROP 451 or concurrently)
Current applications of plant, animal and microbial biotechnology in agriculture and related industries. Technologies under development and factors associated with moving from laboratory to product development. Field trips required.
Effective Fall Semester 2026
- HRT 486 Biotechnology in Agriculture: Applications and Ethical Issues
Fall of even years. 3(3-0) ~~Interdepartmental with Crop and Soil Sciences, Forestry, Philosophy~~ Interdepartmental with Cropping Systems Science, Forestry P: BS 161 or PLB 105 RB: CSS 350 or ZOL 341 R: Not open to freshmen or sophomores.
Current and future roles of biotechnology in agriculture: scientific basis, applications. Environmental, social, and ethical concerns.
Effective Fall Semester 2026

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES

- HDFS 826 Social-Emotional Development Birth to Eight Years: Biology, Relationships, and Culture
Spring of even years. 3(3-0) RB: Prior graduate-level course on infant or early child development.
Theory and research on social-emotional development birth to eight. Variability and diversity influenced by biology, family, relationships, and culture.
DELETE COURSE
Effective Fall Semester 2026
- HDFS 827 Language and Literacy Development from Infancy to Formal Schooling
Fall of even years. 3(3-0) RB: At least one course in child development
Theoretical, empirical, multidisciplinary perspectives on language/literacy birth to school transition. Relationship between language and literacy. Integration of research, practice, policy
DELETE COURSE
Effective Fall Semester 2026
- HDFS 901 Contemporary Scholarship in Human Development and Family Studies
~~Spring of every year. Fall of odd years.~~ 3(3-0) R: Open to doctoral students in the Department of Human Development and Family Studies.
Multiple perspectives on human development and family studies scholarship. Emerging research; professional development strategies.
SA: FCE 901
Effective Fall Semester 2026

DEPARTMENT OF INTEGRATIVE BIOLOGY

- IBIO 445 Evolution (W)
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~Interdepartmental with Crop and Soil Sciences, Plant Biology~~ Interdepartmental with Cropping Systems Science, Plant Biology P: (IBIO 341 or CSS 350) and completion of Tier I writing requirement R: Not open to freshmen.
Processes of evolutionary change in animals, plants. Microbes. Population genetics, microevolution, speciation, adaptive radiation, macroevolution. Origin of Homo sapiens.
SA: ZOL 345, ZOL 445
Effective Fall Semester 2026

DEPARTMENT OF MANAGEMENT

- MGT 411 Organizational Staffing
~~Spring of every year. Fall of every year. Spring of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the School of Hospitality Business. R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.~~
Job and organizational analysis. Personnel planning, recruitment, selection and placement. Employment interviewing and testing. Validation of selection procedures, equal opportunity employer (EEO) guidelines, and affirmative action. Issues and diversity of ethics. How organizations attract, select, and retain a high-quality workforce through planning, recruitment, and job analysis. Emphasis on aligning staffing decisions with organizational strategy, leveraging technology and analytics, and creating fair, effective, and strategic workforce systems.
Effective Fall Semester 2026
- MGT 412 Compensation and Reward Systems
Fall of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently) ~~R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the School of Hospitality Business. R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.~~
Designing compensation systems. Job evaluation, internal and external equity. Pay for performance plans and financial incentives. Wage and salary surveys. Benefits administration. Diversity and ethical considerations. Components of compensation and reward systems. Topics include financial incentives, benefits, equity, legal aspects, and non-monetary compensation.
Effective Fall Semester 2026
- MGT 413 Personnel Training and Development
~~Fall of every year. Spring of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor and not open to students in the School of Hospitality Business. R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.~~
Designing and implementing training and development programs. Career stages and career planning. Needs analysis. Experimental design and program evaluation. Learning theories. Issues and diversity of ethics. Designing and implementing training and development programs. Career stages and career planning. Needs analysis. Experimental design and program evaluation. Learning theories.
Effective Fall Semester 2026

- MGT 414 Diversity in the Workplace
Spring of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently)-~~R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the Hospitality Business Major.~~ R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the Hospitality Business Major.
Problems experienced by racial, ethnic, physically disabled, and other minorities in work organizations. Awareness training for managers. Ethical issues.
Effective Spring Semester 2027
- MGT 460 Capstone for Management Majors (W)
Fall of every year. Spring of every year. 3(3-0) P: (MGT 315 or concurrently) or (MGT 325 or concurrently)-~~R: Open to seniors in the Human Resource Management Major or in the Management Major or in the Retail Management Minor or in the Sports Business Management Minor.~~ R: Open to seniors in the Human Resource Management major or in the Management major or in the Sports Business Management Minor.
Topics in management and organizational behavior.
Effective Fall Semester 2026
- MGT 475 Negotiation and Conflict Management
Fall of every year. 3(3-0)-~~R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business or approval of department.~~ R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the School of Hospitality Business or approval of department. Not open to students with credit in MGT 474.
Negotiation and bargaining to manage people and interpersonal relations. Developmental processes, stages, and types of conflict. Conflict management and resolution.
Effective Fall Semester 2026
- MGT 476 Globalization and International Management
Spring of every year. 3(3-0) P: MGT 315 or concurrently-~~R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business or approval of department.~~ R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.
~~International management issues, including national culture, leadership, decision making, team performance, communication, negotiations, structure, and personal career implications of international management.~~ International management issues, including global strategy, national culture, leadership, decision making, team performance, communication, negotiations, structure, and personal career implications of international management.
Effective Spring Semester 2027
- MGT 491 Special Topics in Management
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: (MGT 315 or concurrently) or (MGT 325 or concurrently)-~~R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.~~ R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Sports Business Management Minor and not open to students in the School of Hospitality Business.
Topics in management such as advanced organizational behavior, managing labor relations, organizational development, organizational theory and design, strategic leadership and decision making.
Effective Fall Semester 2026

DEPARTMENT OF MATHEMATICS

- MTH 415 Applied Linear Algebra
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: (MTH 235 or MTH 340 or MTH 347H) and (MTH 309 or MTH 314 or MTH 317H) P: (MTH 234 or MTH 254H or LB 220) and (MTH 309 or MTH 314 or MTH 317H) and (CMSE 201 or CSE 231)~~ Not open to students with credit in MTH 414.
~~Matrices and linear algebra. General linear systems of equations. Least squares minimization techniques. Eigenvalues and eigenvectors, spectral decompositions, and exponentials. Linear algebra in normed vector spaces. Orthogonal structure and least squares theory. Matrix decompositions. Spectral theory. Singular value decompositions and applications. Discrete convolutions and Fourier transforms.~~
Effective Summer Semester 2026
- MTH 417 Topics in Number Theory
Spring of even years. 3(3-0) ~~P: (MTH 310 or MTH 418H) and ((MTH 411 or concurrently) or (MTH 419H or concurrently)) P: MTH 310 or MTH 418H~~
Congruences of higher degree, primitive roots and quadratic reciprocity. Number-theoretic functions, algebraic numbers. Dirichlet Series, p-order expansion, continued fractions.
Effective Fall Semester 2026

COLLEGE OF NURSING

- NUR 204 Introduction to Professional Nursing
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: PSL 250 and (HDFS 225 or concurrently) and PSY 238 R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major.~~
Examine the fundamental principles and values that underpin the nursing profession while fostering a sense of community and professional identity.
Effective Summer Semester 2026
- NUR 206 Health Assessment
Fall of every year. Spring of every year. Summer of every year. 2(1-1) ~~P: NUR 204 or concurrently R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 204 concurrently and NUR 210 concurrently C: NUR 210 concurrently~~
Introduction to the components of a comprehensive health assessment including distinguishing abnormal from normal assessment findings.
Effective Summer Semester 2026
- NUR 208 Clinical Nursing Skills
Fall of every year. Spring of every year. Summer of every year. 2(1-1) ~~P: PSL 250 and (HDFS 225 or concurrently) and PSY 238 P: NUR 204 or concurrently R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 204 concurrently and NUR 206 concurrently C: NUR 206 concurrently~~
Provide foundational knowledge to develop competence in essential clinical skills and application to evidence-based nursing practice.
Effective Summer Semester 2026
- NUR 210 Foundations of Nursing Practice
Fall of every year. Spring of every year. Summer of every year. 5(3-2) ~~P: PSL 250 and (HDFS 225 or concurrently) and PSY 238 P: PSL 250 and (HDFS 225 or concurrently) and (PSY 238 or concurrently) R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major.~~
Focus on foundational nursing concepts and application of the nursing process to evidence-based care to diverse populations.
Effective Summer Semester 2026

- NUR 306 ~~Pathophysiology, Pharmacology & Genomics I~~ Pathophysiology, Pharmacology and Genomics I
Fall of every year. Spring of every year. Summer of every year. 4(4-0) ~~P: ANTR 350 or (PSL 310 or concurrently) or (PSL 250 or concurrently) or (PSL 431 or concurrently) or (PSL 432 or concurrently) or (CEM 141 or concurrently) or CEM 161~~ P: (NUR 210 or concurrently) or (CEM 141 or concurrently) or CEM 161 ~~R: Open to students in the College of Nursing or in the Nursing Major. Approval of college.~~ R: Open to students in the Nursing Major. ~~C: NUR 210 concurrently~~
Explore the relationship between the physiologic changes, clinical manifestations of altered health, genomics, and the pharmacotherapy utilized in the treatment of complex disease processes.
Effective Summer Semester 2026
- NUR 308 ~~Pathophysiology, Pharmacology & Genomics II~~ Pathophysiology, Pharmacology and Genomics II
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: NUR 306~~ R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major.
Explores the relationship between physiologic changes, clinical manifestations of altered health, genomics, and the pharmacotherapy used in the treatment of complex disease processes.
Effective Summer Semester 2026
- NUR 310 Nursing Care of Adults 1
Fall of every year. Spring of every year. Summer of every year. 5(3-2) ~~P: (NUR 206 or concurrently) and (NUR 208 or concurrently) and (NUR 210 or concurrently)~~ R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. ~~C: NUR 206 concurrently and NUR 208 concurrently and NUR 210 concurrently and NUR 306 concurrently~~ C: NUR 306 concurrently
Focuses on using the nursing process including critical thinking, clinical reasoning, and clinical decision-making to manage care for acute and chronically ill patients.
Effective Summer Semester 2026
- NUR 312 Nursing Care of Adults II
Fall of every year. Spring of every year. Summer of every year. 5(3-2) ~~P: NUR 310~~ R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major.
Application of the nursing process including critical thinking, clinical reasoning, and clinical decision-making to manage care for acute and chronically ill patients.
Effective Summer Semester 2026
- NUR 314 Scholarship of Nursing Practice
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: (NUR 204 or concurrently) and (NUR 210 or concurrently)~~ R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. ~~C: NUR 204 concurrently and NUR 210 concurrently~~
Introduction to evidence-based practice and research methodology to inform ethical nursing practice.
Effective Summer Semester 2026
- NUR 371 Behavioral Health Nursing
Fall of every year. Spring of every year. Summer of every year. 4(2-6) ~~P: PSL 250 and PSY 238 and HDFS 225 and MMG 201 and NUR 206 and NUR 208~~ P: (NUR 206 and NUR 208 and NUR 208) and (HDFS 225 or PSY 238) ~~R: Open to students in the College of Nursing or in the Nursing Major. Approval of college.~~ R: Open to students in the Nursing Major.
Extension of foundational social science concepts into nursing therapeutics aimed at behavioral health and the care of persons with mental illnesses.
Effective Spring Semester 2026

- NUR 404 Kaplan NCLEX Review Seminar
Fall of every year. Spring of every year. Summer of every year. 1(1-0)~~R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 418 concurrently and NUR 420 concurrently and NUR 426 concurrently~~C: NUR 418 concurrently and NUR 420 concurrently and NUR 426 concurrently
Reinforce core nursing concepts to strengthen critical thinking and clinical judgment to promote NCLEX examination success.
Request the use of the Pass-No Grade (P-N) system.
Effective Summer Semester 2026
- NUR 416 Informatics, Analytics, and Innovation
Fall of every year. Spring of every year. Summer of every year. 2(2-0)~~R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major.~~
Knowledge and skills necessary to effectively utilize information technology to drive innovation in healthcare.
Effective Summer Semester 2026
- NUR 418 Transformational Leadership
Fall of every year. Spring of every year. Summer of every year. 3(3-0)~~P: PSL 250 and HDFS 225 and (PSY 238 or concurrently) and MMG 201 R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 416 concurrently~~C: NUR 416 concurrently
Integration of evidence-based practice competencies in professional nursing as it relates to leadership, management, and nursing care delivery systems.
Effective Summer Semester 2026
- NUR 420 Transitions to Nursing
Fall of every year. Spring of every year. Summer of every year. 3(3-0)~~R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 404 concurrently and NUR 426 concurrently~~C: NUR 404 concurrently and NUR 426 concurrently
Develop personal and professional strategies to successfully transition into professional practice and advocate for the advancement of health professions for the global community.
Effective Summer Semester 2026
- NUR 426 Capstone and Preceptorship
Fall of every year. Spring of every year. Summer of every year. 4(1-3)~~P: NUR 206 and NUR 208 P: NUR 206 and NUR 208 and HDFS 225 R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major.~~
Application of evidence-based practice competencies in professional nursing as it relates to quality improvement and nursing care delivery systems.
Effective Summer Semester 2026
- NUR 430 Population and Global Health
Fall of every year. Spring of every year. Summer of every year. 4(3-1)~~P: NUR 206 and NUR 208 and NUR 420 P: NUR 206 and NUR 208 and HDFS 225 R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 420 concurrently~~
Health care processes and systems to achieve better health outcomes for global populations and communities.
Effective Summer Semester 2026
- NUR 440 Nursing Care of Children and Their Families
Fall of every year. Spring of every year. Summer of every year. 4(2-2) P: NUR 206 and NUR 208 and HDFS 225 R: Open to students in the College of Nursing or in the Nursing Major. Approval of college. R: Open to students in the Nursing Major. C: NUR 206 concurrently and NUR 208 concurrently
Theoretical concepts and clinical application of nursing care for children, adolescents, and their families using a holistic perspective in varied settings.
Effective Summer Semester 2026

NUR 444 Nursing Care of the Childbearing Family and Beyond
Fall of every year. Spring of every year. Summer of every year. 4(2-2) ~~P: NUR 206 and NUR 208 and HDFS 225~~ ~~R: Open to students in the College of Nursing or in the Nursing Major. Approval of college.~~ ~~R: Open to students in the Nursing Major.~~ ~~C: NUR 206 concurrently and NUR 208 concurrently~~
Theoretical concepts and clinical application of nursing care for the normal and at risk childbearing families and women's health.
Effective Summer Semester 2026

SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

~~IDES 240~~
IDES 130 Computer-Aided Design for Designers
~~Fall of every year. Summer of every year. Fall of every year. Spring of every year.~~ 3(1-4) ~~R: Open to students in the Interior Design Major or in the Bachelor of Landscape Architecture or approval of school.~~
Introduction to computer-aided design applications.
~~SA: HED 240~~ SA: HED 240, IDES 240
Effective Fall Semester 2026

~~IDES 343~~
IDES 231 Interior Design Presentation and Media
Fall of every year. 3(0-6) ~~P: IDES 142 and IDES 240~~ P: IDES 142 and IDES 130 R: Approval of department.
Design communication through two- and three-dimensional drawings in media. Presentation procedures and techniques.
~~SA: HED 242, HED 343~~ SA: HED 242, HED 343, IDES 343
Effective Fall Semester 2026

~~IDES 250~~
IDES 232 3D Modeling and Visualization
Spring of every year. 3(3-0) ~~P: IDES 340 and IDES 343~~ P: IDES 290 and IDES 231 R: Open to students in the Interior Design Major.
Applications in 3D modeling, digital visualization, and structural principles in generating design solutions.
~~SA: HED 250~~ SA: HED 250, IDES 250
Effective Fall Semester 2026

IDES 252 Interior Design Synthesis I
Spring of every year. 4(1-6) ~~P: IDES 340 and IDES 343~~ P: IDES 290 and IDES 231 R: Open to students in the Interior Design Major.
Design process with emphasis on problem resolution for residential and commercial interiors.
SA: HED 252
Effective Fall Semester 2026

~~IDES 344~~
IDES 261 History of Interior Design: Ancient Through Rococo
Fall of every year. 3(3-0) R: Open to students in the Department of Art, Art History, and Design or in the School of Planning, Design and Construction or in the Cities: Environment, Design and Society Minor or approval of department.
Historical development of furniture, textiles, and other decorative arts in interior design and architecture.
~~SA: HED 344~~ SA: HED 344, IDES 344
Effective Fall Semester 2026

~~IDES 354~~
IDES 262

History of Interior Design: Neo-Classical Through Modern
Spring of every year. 3(3-0) ~~P: IDES 344~~ P: IDES 261 R: Open to students in the Department of Art, Art History, and Design or in the School of Planning, Design and Construction or in the Cities: Environment, Design and Society Minor or approval of department.
Historical development of furniture, textiles and the other decorative arts from the neoclassical through the modern period. Major social, cultural, and psychological influences.
~~SA: HED 354~~ SA: HED 354, IDES 354
Effective Fall Semester 2026

~~IDES 340~~
IDES 290

Interior Design Specifications and Workroom Practices
Fall of every year. 3(3-0) ~~P: IDES 142 and IDES 240~~ P: IDES 142 and IDES 130 R: Approval of department.
Specifications and workroom practices used for fabrication and installation of design solutions for interior spaces.
~~SA: HED 340~~ SA: HED 340, IDES 340
Effective Fall Semester 2026

~~IDES 393~~
IDES 294

Introduction to Professional Practice
Spring of every year. 1(1-0) ~~P: IDES 340 and IDES 343~~ P: IDES 290 and IDES 231 R: Open to students in the Interior Design Major.
Introduction to the design profession and its opportunities, focusing on career planning and preparation.
Request the use of the Pass-No Grade (P-N) system.
~~SA: HED 393~~ SA: HED 393, IDES 393
Effective Fall Semester 2026

~~IDES 454~~
IDES 333

Revit for Designers
Fall of every year. 3(3-0) ~~P: IDES 240 and IDES 250~~ P: IDES 130 and IDES 232 ~~R: Open to juniors or seniors.~~ R: Open to juniors or seniors in the Interior Design Major or approval of school.
Concepts and application of building information modeling for interior design applications using Revit.
SA: IDES 454
Effective Fall Semester 2026

IDES 342

Interior Design: Human Dimensions
Fall of every year. 3(2-2) ~~P: IDES 252 and IDES 250~~ P: IDES 252 and IDES 232 R: Open to students in the Interior Design Major.
Human dimensions as determining factors in designing human environments. Standards and concepts of universal fit.
SA: HED 342
Effective Fall Semester 2026

~~IDES 440~~
IDES 348

Contemporary Design Issues
Spring of every year. 2(2-0) ~~R: Open to students in the Department of Art, Art History, and Design or in the School of Planning, Design and Construction or in the Cities: Environment, Design and Society Minor or approval of department.~~ R: Open to juniors or seniors in the Department of Art, Art History, and Design or in the School of Planning, Design and Construction or in the Cities: Environment, Design and Society Minor or approval of department.
Issues related to design professionals and their clients.
~~SA: HED 440~~ SA: HED 440, IDES 440
Effective Fall Semester 2026

- IDES 350 Interior Design Lighting and Environmental Systems
Fall of every year. 3(2-2)-P: ~~IDES 250 and IDES 252~~ P: IDES 232 and IDES 252 R: Open to students in the Interior Design Major.
Lighting and environmental systems including lighting, ventilation, acoustics, heating and cooling. Integration of lighting and environmental systems with interior space.
SA: HED 350
Effective Fall Semester 2026
- ~~IDES 451~~
IDES 395 Interior Design Professional Practice
Spring of every year. 2(2-0)-P: ~~IDES 342 and IDES 350 and IDES 393~~ P: IDES 342 and IDES 350 and IDES 294 R: Open to students in the Interior Design Major.
Professional practice standards, ethics, and client interaction in interior design. Field trip required.
SA: IDES 451
Effective Fall Semester 2026
- IDES 441 Interior Design Open Office Systems
Fall of every year. 1(1-0) P: IDES 352 and IDES 440 and IDES 451 R: Open to students in the Interior Design Major.
Planning and design of open office systems including panel and electrical plans, power plan development, furniture and lighting layouts, specifications, and presentation. Offered first half of semester.
~~DELETE COURSE~~
Effective Fall Semester 2026
- IDES 442 Interior Design Programming (W)
Fall of every year. 3(1-4)-P: ~~(IDES 352 and IDES 440 and IDES 451) and completion of Tier I writing requirement~~ P: (IDES 352 and IDES 348 and IDES 395) and completion of Tier I writing requirement R: Open to students in the Interior Design Major.
Identifying, programming, and preparing schematics of the senior interior design project. Studio sketch portfolio guidelines. Site visits required.
Effective Fall Semester 2026
- IDES 452 Interior Design Synthesis III
Spring of every year. 4(1-6)-P: ~~IDES 441 and IDES 442~~ P: IDES 442 R: Open to students in the Interior Design Major.
Advanced studio processes for solving complex interior design problems. Studio application of professional practice standards to specific capstone projects. Field trip required.
Effective Fall Semester 2026
- ~~IDES 456~~
IDES 463 Historic Preservation and Sustainability
Fall of every year. 3(3-0) RB: Basic understanding of the built environment-R: ~~Open to students in the School of Planning, Design and Construction or approval of department.~~ R: Open to juniors or seniors in the School of Planning, Design and Construction or approval of school.
The interior design component of the preservation movement. Historic restoration and adaptive reuse.
SA: ~~HED 456~~ SA: HED 456, IDES 456
Effective Fall Semester 2026

DEPARTMENT OF SMALL ANIMAL CLINICAL SCIENCES

- SCS 646 Small Animal Orthopedic Surgery Clerkship
~~Fall of every year. Spring of every year. Summer of every year.~~ Fall of every year. Spring of every year. Summer of every year. 3 credits. ~~A student may earn a maximum of 6 credits in all enrollments for this course. RB: Completion of semester 5 of the professional veterinary program. RB: Successful completion of the preclinical phase of the graduate-professional (DVM) program in the College of Veterinary Medicine. R: Open only to graduate-professional students in the College of Veterinary Medicine.~~ R: Open to graduate-professional students in the College of Veterinary Medicine.
Diagnosis and preoperative, surgical, and postoperative care of patients requiring routine and major orthopedic surgical procedures.
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 Semester 2026

COLLEGE OF SOCIAL SCIENCE

- SSC 442 Social Science Data Analytics Applications
Fall of every year. Spring of every year. 3(3-0) P: PLS 202 Not open to students with credit in EC 242.
Application of computational tools for data collection and visualization to various topics in social science research.
DELETE COURSE
Effective Spring Semester 2026

DEPARTMENT OF STATISTICS AND PROBABILITY

- STT 464 Statistics for Biologists
~~Fall of every year. 3(3-0) Interdepartmental with Animal Science, Crop and Soil Sciences~~ Interdepartmental with Animal Science, Cropping Systems Science P: ~~MTH 103 or MTH 116 or MTH 124 or MTH 132 or LB 117 or LB 118 or LB 119~~ P: MTH 103 or MTH 103B or MTH 116 or MTH 124 or MTH 132 or LB 117 or LB 118
Biological random variables. Estimation of population parameters. Testing hypotheses. Linear correlation and regression. Analyses of counted and measured data to compare several biological groups including contingency tables and analysis of variance.
Effective Fall Semester 2026