

**MICHIGAN STATE UNIVERSITY**

**Report of**  
**THE UNIVERSITY COMMITTEE ON CURRICULUM**  
**to the Faculty Senate**  
**Actions by UCC**  
**September 26, 2024**

*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

September 26, 2024

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:<sup>1</sup>

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:<sup>1</sup>

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.

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

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

MICHIGAN STATE UNIVERSITY

September 26, 2024

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

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

**COLLEGE OF ARTS AND LETTERS**

1. Change the requirements for the **Minor in Arts and Cultural Management** in the College of Arts and Letters.
  - a. Under the heading **Requirements for the Minor in Arts and Cultural Management** make the following changes:
    - (1) In item 2. change the requirement to “A minimum of 9 credits from the following courses”, and add the following courses:

ACM	480	Arts and Cultural Experience	1
MUSM	480	Museums and Cultural Experience	1

Add the following note:

The maximum amount of credits allowed in ACM 480 and MUSM 480 is 6 credits.

Effective Spring 2025.
2. Change the requirements for the **Graduate Certificate in Arts and Cultural Management** in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) approved this request at its September 16, 2024 meeting.
  - a. Under the heading **Requirements for the Graduate Certificate in Arts and Cultural Management** make the following changes:
    - (1) In item 2. change the requirement to “A minimum of 6 credits from the following courses”, and add the following courses:

ACM	880	Arts and Cultural Experience	1
MUSM	880	Museums and Cultural Experience	1

Add the following note:

The maximum amount of credits allowed in ACM 880 and MUSM 880 is 6 credits.

Effective Spring 2025.

3. Change the requirements for the **Master of Arts** degree in **Arts, Cultural Management and Museum Studies** in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) approved this request at its September 16, 2024 meeting.

a. Under the heading **Requirements for the Master of Arts Degree in Arts, Cultural Management and Museum Studies** make the following changes:

(1) Replace the introductory statement with the following:

The Master of Arts degree in Arts Cultural Management and Museum Studies is available under both Plan A (with thesis) and Plan B (without thesis). A total of 31 credits are required for Plan A and 30 credits for Plan B.

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

ACM	891	Special Topics in Arts and Cultural Management	1 to 3
CSUS	431	Interpretation and Visitor Information Systems	3
CSUS	873	Culture, Communities and Tourism	3
MUSM	495	History Harvest	3

Add the following courses:

ACM	880	Arts and Cultural Management Experience	1
ACM	891	Special Topics in Arts and Cultural Management	1 to 4
MUSM	880	Museums and Cultural Management Experience	1

Add the following note:

The maximum amount of credits allowed in ACM 880 and MUSM 880 is 8 credits.

Effective Summer 2025.

4. Change the requirements for the **Minor in Museum Studies** in the College of Arts and Letters.

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

(1) In item 1. b. change the requirement to “A minimum of 9 credits from the following courses”, and add the following courses:

ACM	480	Arts and Cultural Experience	1
MUSM	480	Museums and Cultural Experience	1

Add the following note:

The maximum amount of credits allowed in ACM 480 and MUSM 480 is 6 credits.

Effective Spring 2025.

5. Change the requirements for the **Graduate Certificate in Museum Studies** in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) approved this request at its September 16, 2024 meeting.

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

- (1) In item 1. b. change the requirement to “A minimum of 6 credits from the following courses”, and add the following courses:

ACM	880	Arts and Cultural Experience	1
MUSM	880	Museums and Cultural Experience	1

Add the following note:

The maximum amount of credits allowed in ACM 880 and MUSM 880 is 6 credits.

Effective Spring 2025.

6. Change the requirements for the **Master of Arts** degree in **Nonprofit Leadership, Global Cultures, and Social Enterprise** in the Department of Religious Studies. The University Committee on Graduate Studies (UCGS) approved this request at September 16, 2024 meeting.

a. Under the heading **Admission** replace items 1. through 6. With the following:

1. have a four-year bachelor's degree from a regionally or nationally accredited institution.
2. have a cumulative undergraduate grade-point average of at least 3.0 in the last two years of undergraduate study.
3. submit an admissions portfolio consisting of a personal statement, an academic statement, a resume or curriculum vitae, three letters of recommendation, and copies of official university or college transcripts.
4. have an ACM minimum TOEFL score of 90 on the non-native language proficiency test if the student is an international applicant.

Effective Spring 2025.

### COLLEGE OF HUMAN MEDICINE

1. Change the requirements for the **Professional Program in Human Medicine** leading to the **Doctor of Medicine (M.D.)** degree. The University Committee on Graduate Studies (UCGS) approved this request at its September 16, 2024 meeting.

a. Under the heading **Oral Maxillofacial Surgery Pathway** replace the last sentence with the following:

These students will begin the Middle Clinical Experience upon matriculation, and will complete the remainder of the M.D. program credits through the MD/OMFS residency track program, receiving a waiver for 41 credits. OMFS students must complete all listed Requirements for the Doctor of Medicine degree except for the differences outlined here:

- Exempted from taking HM 552 and HM 553.
- Instead of HM 554, must complete HM 544 Med School III, 16 credits.
- Instead of HM 556, must complete HM 549 Med School V, 10 credits.
- Instead of SUR 642, must complete SUR 635 Perioperative Trauma Medicine, 6 credits.
- From section 2., Critical Care Selectives, OMFS students must complete MED 643 Medicine Critical Care, 6 credits.
- From section 3., Primary Care Selectives, the requirement is 3 credits rather than 6 credits.

Effective Spring 2025.

**COLLEGE OF SOCIAL SCIENCE**

1. Change the requirements for the **Minor in Social Science Quantitative Data Analytics** in the College of Social Science.
  - a. Under the heading **Requirements for the Minor in Social Science Quantitative Data Analytics** make the following changes:
    - (1) Replace item 4. with the following:

One of the following capstone courses (3 credits):			
EC	242	Social Science Data Analytics	3
SSC	442	Social Science Data Analytic Applications	3
2. Change the administrative responsibility for the **Minor in Social Science Quantitative Data Analytics** from the College of Social Science to the Department of Economics.

Effective Spring 2025.
3. Change the requirements for the **Bachelor of Arts** degree in **Economics**.
  - a. Under the heading **Requirements for the Bachelor of Arts Degree in Economics** change item 3. d. to the following:

Nine additional credits in economics courses, of which at least 6 credits must be at the 400-level and at least 3 credits must be at the 300-level or higher.

Effective Spring 2025.
4. Change the requirements for the **Bachelor of Science** degree in **Economics**.
  - a. Under the heading **Requirements for the Bachelor of Science Degree in Economics** change item 3. f. to the following:

Three to six additional credits in economics courses at the 300-level or higher to total at least 30 credits in Economics courses.

Effective Spring 2025.

## **PART II - NEW COURSES**

### **DEPARTMENT OF AFRICAN AMERICAN AND AFRICAN STUDIES**

- AAAS 309      Centering Wellness  
Fall of odd years. 3(3-0) P: AAAS 100 or AAAS 200 or AAAS 201 or AAAS 202  
Multi-level analyses of trauma, recovery, healing, and wellness guided by Black literature and the creative arts  
SA: AAAS 390  
Effective Fall Semester 2024

### **INSTITUTE OF AGRICULTURAL TECHNOLOGY**

- AT 195      Research and Practice in Agricultural Technologies  
Fall of every year. Spring of every year. Summer of every year. 3(1-4) P: (AT 100 or concurrently) or AT 214 or ANS 110 or (FSC 111 or concurrently) or (FOR 115 or concurrently) or HRT 207 or AT 102 or (FOR 112 or concurrently) or approval of department R: Open to agricultural technology students or approval of department.  
Scope, impacts, and challenges of technologies transforming modern agriculture. Field trips required.  
Effective Fall Semester 2024

### **COLLEGE OF ARTS AND LETTERS**

- ACM 480      Arts and Cultural Experience  
Fall of every year. Spring of every year. Summer of every year. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this course. RB: ACM 271  
Experience in arts and cultural management through cooperative and collaborative activities with arts and cultural professionals and organizations, investigating the creative process from project inception to audience reception.  
Effective Fall Semester 2024
- ACM 880      Arts and Cultural Management Experience  
Fall of every year. Spring of every year. Summer of every year. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this course. RB: ACM 801 or MUSM 885  
Experience in arts and cultural management through cooperative and collaborative activities with arts and cultural professionals and organizations, investigating the creative process from project inception to audience reception.  
Effective Fall Semester 2024
- MUSM 480      Museums and Cultural Experience  
Fall of every year. Spring of every year. Summer of every year. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this course. RB: MUSM 485  
Experience in museums and cultural management through cooperative and collaborative activities with museum and cultural professionals and organizations, investigating the creative process from project inception to audience reception.  
Effective Fall Semester 2024
- MUSM 880      Museums and Cultural Management Experience  
Fall of every year. Spring of every year. Summer of every year. 1(0-2) A student may earn a maximum of 10 credits in all enrollments for this course. RB: ACM 801 or MUSM 885  
Experience in museums and cultural management through cooperative and collaborative activities with museum and cultural professionals and organizations, investigating the creative process from project inception to audience reception.  
Effective Fall Semester 2024

### **BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM**

- BLD 150 Introduction to Biomedical Laboratory Diagnostic Testing  
Fall of every year. Spring of every year. 1(1-0) R: Open to freshmen or sophomores in the College of Natural Science or in the Lyman Briggs College.  
Analysis of diagnostic testing (hematology, clinical chemistry, immunology, transfusion services, medical microbiology, molecular diagnostics) within case studies of pathological conditions to understand how diagnostic testing is employed in the clinical decision-making process.  
Request the use of the Pass-No Grade (P-N) system.  
Effective Fall Semester 2024

### **DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING**

- ECE 810 Radio Frequency Integrated Circuits  
Fall of every year. 3(3-0) RB: Electrical and Computer Engineering and Computer Science and Engineering.  
REINSTATEMENT Transceiver architecture designs with emphasis on hardware building blocks. Integrated radio frequency designs for various communication standards. Basic building blocks including low noise and power amplifiers, mixers, voltage control oscillators, and frequency synthesizers. Integrated circuit designs of basic building blocks.  
Effective Fall Semester 2024
- ECE 837 Computational Methods in Electromagnetics  
Spring of odd years. 3(3-0) P: ECE 835 R: Open to graduate students in the Department of Electrical and Computer Engineering and open to graduate students in the Department of Physics and Astronomy and open to graduate students in the Department of Mathematics.  
REINSTATEMENT Numerical methods and linear spaces. Finite difference time domain methods. Yee Algorithm. Boundary truncation methods. Perfectly matched layers (PMLs). Finite element method (time and frequency). Scalar basis functions. Vector basis functions. Boundary truncation using PMLs. Integral equation methods. Surface and volume integral equations.  
Effective Fall Semester 2024

### **DEPARTMENT OF FISHERIES AND WILDLIFE**

- FW 867 Water: A Global Perspective  
Fall of every year. 1(2-0) RB: Knowledge of water science or related field  
Breadth, integration, and multidisciplinary nature of research, management, exploitation, and conservation of water resources. Convergent and interdisciplinary approaches to water research.  
Effective Fall Semester 2024

### **DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION**

- FSC 480 Fundamentals of Chemistry and Microbiology for Distillers  
Summer of every year. 3(3-0) R: Approval of department.  
Fundamentals of chemistry including chemical and microbial concepts related to the production of distilled spirits.  
Effective Summer Semester 2024
- FSC 855 USDA-FSIS Food Law  
Fall of every year. 3(3-0) RB: FSC 811, LAW810A, or prior coursework or professional experience in food safety, food law, or food science  
USDA Food Safety Inspection Service law on the regulation and inspection of meat, poultry, and egg products.  
Effective Fall Semester 2024

**DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES**

GEO 428 Digital Terrain Analysis  
Fall of odd years. 3(2-2) P: GEO 325  
REINSTATEMENT Theoretical and technical issues of collection, management, analysis, and display of terrain data. Application of photogrammetry, geographic information systems, and cartography.  
Effective Spring Semester 2025

**DEPARTMENT OF HORTICULTURE**

HRT 222 Houseplants and Interiorscapes  
Spring of odd years. 2(2-0)  
Concepts and practices of houseplant production and the design, management, and maintenance of interiorscapes.  
Effective Spring Semester 2025  
HRT 222L Houseplants and Interiorscapes Laboratory  
Spring of odd years. 1(0-2) P: PLB 105 or HRT 109 C: HRT 222  
Houseplant identification, propagation techniques, and the impact of the greenhouse environment on the scheduling and quality of finished plant material. Field trip required.  
Effective Spring Semester 2025

**COLLEGE OF HUMAN MEDICINE**

HM 638 Lifestyle Medicine  
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: HM 556 RB: Knowledge or experience in lifestyle medicine R: Open to graduate-professional students in the College of Human Medicine.  
Approval of college.  
Introduction to the pillars of lifestyle medicine and their application in the prevention and management of many common chronic diseases.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 2 semesters after the end of the semester of enrollment.  
Effective Fall Semester 2024

**MSU COLLEGE OF LAW**

LAW 508P Eminent Domain and Private Property Rights  
On Demand. 0 to 6 credits. P: LAW 500G or concurrently R: Open to students in the MSU College of Law.  
Deep dive into the hotly contested area of eminent domain.  
Effective Spring Semester 2025  
LAW 508Q Corporate Compliance Failures  
On Demand. 0 to 6 credits. R: Open to students in the MSU College of Law.  
Case studies to examine the ways that corporate compliance efforts can fail.  
Effective Spring Semester 2025  
LAW 511F Strikes, Lockouts, Injunctions and Picketing  
On Demand. 0 to 6 credits. R: Open to students in the MSU College of Law.  
Federal protections and regulations under federal law to collective action in its various forms.  
Effective Spring Semester 2025  
LAW 535X Entrepreneurship and Venture Capital Law  
On Demand. 0 to 6 credits. R: Open to students in the MSU College of Law.  
Legal issues facing entrepreneurs, including social entrepreneurs, and venture capital investors, which include: governance; intellectual property; employment; finance; and public and private capital markets.  
Effective Fall Semester 2024

- LAW 566V Civil Environmental Litigation  
On Demand. 0 to 6 credits. R: Open to students in the MSU College of Law.  
Overview of civil environmental litigation, including administrative hearings, trials, and appellate review.  
Effective Spring Semester 2025
- LAW 631X Public Defender Clinic I  
On Demand. 0 to 6 credits. R: Open to students in the MSU College of Law.  
Representation in preconviction appellate matters which provide opportunities to interact with clients, strategize with trial counsel, argue in appellate courts, and appear in trial courts on ancillary matters.  
Effective Spring Semester 2025
- LAW 810V FSMA FSVP Rule  
Fall of every year. Summer of every year. 0 to 6 credits.- R: Open to Law students or law advanced students in the MSU College of Law.
- REINSTATEMENT Legal perspective of FDA's Foreign Supplier Verification Program of the Food Safety Modernization Act.  
Effective Summer Semester 2024

### **COLLEGE OF NURSING**

- NUR 867 Clinical Internship in Nursing Education  
Summer of every year. 4(1-9) P: NUR 861 RB: Open only to students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.
- REINSTATEMENT Application and evaluation of teaching and learning principles in a diverse health care setting.  
Effective Summer Semester 2024

### **COLLEGE OF OSTEOPATHIC MEDICINE**

- OST 451 Global Health Research Methods  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to undergraduate students or approval of department.  
Introduction to global health research methods, concepts, and practices.  
Effective Spring Semester 2025
- OST 452 Introduction to One Health  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to undergraduate students or approval of department.  
Introduction to global health using the One Health approach. The interconnectedness of the health of people, animals and their shared environment.  
Effective Spring Semester 2025

### **SCHOOL OF PACKAGING**

- PKG 441 AI and Robotics in Packaging  
Fall of every year. Spring of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: PKG 323 and PKG 322 R: Open to undergraduate students or graduate students in the School of Packaging. Approval of department. A student may earn a maximum of 6 credits  
Principles and use of AI and Robotics in Packaging.  
Effective Fall Semester 2024
- PKG 810 Packaging Professional Seminar  
Fall of every year. Spring of every year. 3(3-0) R: Open to graduate students in the School of Packaging.  
Professional skills and workplace strategies for success in a packaging career  
Effective Fall Semester 2025

**DEPARTMENT OF PSYCHOLOGY**

- PSY 802      Basic Cognitive Processes  
Spring of even years. 3(3-0) R: Open to graduate students in the Department of Psychology or in the Cognitive Science Specialization or approval of department.
- REINSTATEMENT      Advanced exploration of methods used to study human cognition as applied to sensory processes, perception, attention, memory, and control of action  
SA: PSY 810  
Effective Spring Semester 2025

**DEPARTMENT OF PUBLIC HEALTH (CS MOTT)**

- PH 843      Public Health Research Methods  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to graduate students in the Public Health Major or approval of department.  
Overview of general research methods used in public health practice: Literature Reviews, Quantitative and Qualitative Methods, Program Evaluation, and Policy Analysis.  
Effective Fall Semester 2024

**DEPARTMENT OF TEACHER EDUCATION**

- TE 812      Teacher Leadership in Practice  
Fall of every year. 3(3-0) P: TE 808 or concurrently RB: Students with prior or current experience teaching in K-12 schools will be best served by this course. R: Open to graduate students or lifelong graduate students. Approval of department.
- REINSTATEMENT      Teacher leadership through fieldwork in school contexts. Research on teacher leadership and leadership theory.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
Effective Fall Semester 2024

## **PART III – COURSE CHANGES**

### **DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS**

- ACC 230 Survey of Accounting Concepts  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~R: Not open to students in the Accounting major or in the Business—Admitted major or in the Business Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major. R: Not open to students in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Exploring Business Preference Major or in the Finance Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major.~~ Not open to students with credit in ACC 202.  
Basic concepts in financial and managerial accounting for non-business majors.  
Effective Spring Semester 2025

### **DEPARTMENT OF AGRICULTURAL, FOOD, AND RESOURCE ECONOMICS**

- EEM 490 Independent and Supervised Study  
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 7 credits in all enrollments for this course. P: ABM 100 R: Open to undergraduate students in the Environmental Economics and Management major. Approval of department; application required.  
In-depth independent study of topics affecting public resource management.  
Complementary with previous coursework, adapted to career aspirations.  
SA: EEP 490, PRM 490  
DELETE COURSE  
Effective Fall Semester 2024
- EEM 493 Professional Internship in Environmental Economics and Management  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: ABM 100 R: Open to juniors or seniors in the Environmental Economics and Management major. Approval of department; application required.  
A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CMP 493, CSS 493, CSUS 493, EEM 493, FIM 493, FOR 493, FSC 493, FW 493, HRT 493, PDC 493, PKG 493, and PLP 493.  
Supervised professional experience in agencies, organizations, or businesses related to environmental economics and policy.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
SA: EEP 493, PRM 493  
DELETE COURSE  
Effective Fall Semester 2024
- FIM 210 Professional Seminar in Food Industry Management  
Spring of every year. 1(1-0) R: Open to students in the Food Industry Management Major or in the Food Industry Management Minor.  
Industry trends in food industry management. Verbal, written, and visual communication techniques applied to professional situations, including professional development and career planning.  
DELETE COURSE  
Effective Fall Semester 2024
- FIM 410 Advanced Professional Seminar in Food Industry Management  
Fall of every year. 1(1-0) P: FIM 210 R: Open to juniors or seniors in the Food Industry Management Minor or in the Food Industry Management Major.  
Advanced professional problems and reestablishment of career planning in the agri-food system. Industry trends, career alternatives, and job search strategies. Enhanced verbal, written, and visual communication techniques.  
DELETE COURSE  
Effective Fall Semester 2024

FIM 490 Independent Study in Food Industry Management  
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: ABM 100 R: Not open to freshmen.  
Approval of department; application required. A student may earn a maximum of 6 credits. Students are limited to a combined total of 6 credits in ABM 490 and FIM 490.  
Independent supervised study in topics in food industry management.  
SA: FSM 490  
DELETE COURSE  
Effective Fall Semester 2024

FIM 493 Professional Internship in Food Industry Management  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (ABM 100) R: Open to undergraduate students in the Food Industry Management major. Approval of department; application required. A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CMP 493, CSS 493, CSUS 493, EEP 493, FIM 493, FOR 493, FSC 493, FW 493, HRT 493, PDC 493, PKG 493, PLP 493, and  
Supervised professional experience in the food industry.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
DELETE COURSE  
Effective Fall Semester 2024

### **COLLEGE OF ARTS AND LETTERS**

ACM 471 Arts and Cultural Management Seminar  
~~Fall of every year. Spring of every year. Summer of every year. Fall of every year. Spring of every year. 3(2-2) P: (ACM 271) and (ACM 461 or ACM 462 or ACM 463 or ACM 464 or ACM 465 or ACM 466 or ACM 467) P: {(ACM 271 or MUSM 485) and (ACM 461 or ACM 462 or ACM 463 or ACM 464 or ACM 465 or ACM 466 or ACM 467 or ACM 469 or ACM 480 or ACM 496)} or (MUSM 480 or MUSM 487 or MUSM 488 or MUSM 489 or MUSM 492 or MUSM 494 or MUSM 496 or MUSM 497 or MUSM 498) R: Approval of college. R: Open to undergraduate students in the Arts and Cultural Management Minor or in the Museum Studies Minor.~~  
Seminar covering key topics and approaches in arts and cultural management, and the preparation of academic and professional portfolios.  
SA: AL 471  
Effective Spring Semester 2025

### **BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM**

BLD 473L Advanced Clinical Hematology and Body Fluids Laboratory  
Fall of every year. Spring of every year. Summer of every year. 3 credits. P: BLD 424L R: Open to students in the Biomedical Laboratory Diagnostics Program. Approval of department.  
Application and integration of theory and technical skills in hematology, hemostasis, and body fluid analysis.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 3 semesters after the end of the semester of enrollment.  
SA: MT 473, BLD 473 SA: BLD 473, MT 473  
Effective Fall Semester 2024

### **DEPARTMENT OF COMMUNITY SUSTAINABILITY**

CSUS 316 Campus Apprenticeship in Agriculture, Food, and Natural Resources Education  
~~Fall of every year. Spring of every year. 3(1-4) R: Not open to freshmen.~~  
Application of approaches to teaching and learning in place-based agriculture, food, and natural resources settings.  
Effective Spring Semester 2025

- CSUS 873 Culture, Communities and Tourism  
Fall of even years. 3(3-0)  
Multi-disciplinary exploration of culture, heritage, cultural landscapes, ecotourism. Contribution of cultural institutions and resources to economy, tourism and community development. Relationship between natural environment and cultural expression. Positive and negative impacts of cultural tourism. Domestic and international examples.  
SA: ACR 873  
DELETE COURSE  
Effective Fall Semester 2024

### **DEPARTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE, AND ENGINEERING**

- CMSE 410 Bioinformatics and Computational Biology  
Spring of every year. ~~3(2-2)~~ 3(3-0) ~~Interdepartmental with Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Microbiology and Molecular Genetics, Microbiology and Molecular Genetics, Microbiology and Molecular Genetics, Microbiology and Molecular Genetics, Plant Biology, Plant Biology Interdepartmental with Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology, Plant Biology, Plant Biology P: {(CMSE 201 and LB 144 and LB 145) or (CMSE 201 and BS 161 and BS 162) or (CMSE 201 and BS 181H and BS 182H)} and (STT 200 or STT 201 or STT 231 or STT 421 or STT 351 or ECE 280) P: {(CMSE 201 and LB 144 and LB 145) or (CMSE 201 and BS 161 and BS 162) or (CMSE 201 and BS 181H and BS 182H)} and (STT 200 or STT 201 or STT 231 or STT 421 or STT 351 or ECE 280 or STT 380)~~  
Computational approaches in modern biology with a focus on applications in genomics, systems biology, evolution, and structural biology.  
Effective Fall Semester 2025
- CMSE 411 Computational Medicine  
Fall of even years. 3(3-0) ~~Interdepartmental with Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Microbiology and Molecular Genetics, Microbiology and Molecular Genetics, Microbiology and Molecular Genetics, Microbiology and Molecular Genetics Interdepartmental with Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Biochemistry and Molecular Biology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology, Microbiology, Genetics, and Immunology P: (CMSE 201 and LB 144 and LB 145) or (CMSE 201 and BS 161 and BS 162) or (CMSE 201 and BS 181H and BS 182H)~~  
Computational approaches in biology with a focus on medicine.  
Effective Fall Semester 2025

### **COLLEGE OF ENGINEERING**

- EGR 440 ~~Engineering Entrepreneurship~~ Science and Engineering Entrepreneurship  
Fall of every year. 3(3-0) ~~R: Open to juniors or seniors in the College of Engineering. R: Open to juniors or seniors in the College of Engineering or in the College of Natural Science or approval of college.~~  
Technical skills to enable and engage in engineering related entrepreneurship at all levels. Discovery, evaluation, and engagement of entrepreneurial opportunities starting with technology development to solve a problem, bring about desired change that is scalable, and the application of engineering principles in business related endeavors. Technical skills to enable and engage in science and engineering related entrepreneurship at all levels. Discovery, evaluation, and engagement of entrepreneurial opportunities starting with technology development to solve a problem, bring about desired change that is scalable, and the application of science and engineering principles in business related endeavors.  
Effective Fall Semester 2025

### DEPARTMENT OF ENTOMOLOGY

- ENT 404 Fundamentals of Entomology  
Fall of every year. 4(2-4) P: BS 162 or PLB 105 or LB 144 R: Open to juniors or seniors or graduate students in the College of Agriculture and Natural Resources or approval of department.  
Insect classification, identification, diversity, physiology and ecology. Importance of insects to humans and the environment. Insect collection required.  
Effective Spring Semester 2025

### DEPARTMENT OF FORESTRY

- FOR 215 Introduction to Wildland Fire  
Spring of every year. 2(2-0) R: ~~Open to undergraduate students in the Department of Forestry or approval of department.~~  
Fundamental processes of wildland fire behavior and management consistent with the National Wildfire Coordinating Group (NWCG) curriculum. Field trips required.  
SA: FOR 412  
Effective Spring Semester 2025
- FOR 340 Forest Ecology  
Fall of every year. 3(3-0) P: ~~((CSS 210 or GEO 206) and completion of Tier I writing requirement) and (PLB 105 or BS 162 or LB 144) P: ((CSS 210 or GEO 206) and completion of Tier I writing requirement) and (PLB 105 or BS 162 or LB 144 or FOR 175) RB: IBIO 355~~  
Ecological interactions crucial to the sustainable management of forest ecosystems. Plant resources, species interactions, succession, biodiversity, productivity, nutrient and carbon cycling, ecosystem structure and function, exotic species, global environmental change.  
SA: FOR 404  
Effective Fall Semester 2025
- FOR 340L Forest Ecology Laboratory  
Fall of every year. 2(0-6) P: ~~((CSS 210) and completion of Tier I writing requirement) and (FOR 340 or concurrently) and (PLB 105 or BS 162 or LB 144) P: FOR 340 or concurrently RB: IBIO 355~~  
Field studies and data analysis of ecological processes central to the sustainable management of forest ecosystems. Field exercises cover primary production, community structure, soil resources, biodiversity, succession, nutrient cycling, critiques of primary literature. Pre-semester field camp required.  
SA: FOR 404L  
Effective Fall Semester 2025
- FOR 372 Ecological Monitoring and Data Analysis  
Spring of every year. 3(2-2) Interdepartmental with Geography P: ~~((MTH 124 or MTH 132) and completion of Tier I writing requirement) and (STT 201 or STT 224 or STT 231 or STT 421 or GEO 363) P: (MTH 103 or concurrently) and FOR 128~~  
Design of ecological monitoring systems and analysis of resulting ecological data sets. Monitoring system design, model specification and implementation, and computational considerations from both a design- and model-based perspective. Hands-on introduction to statistical software.  
SA: FOR 472  
Effective Spring Semester 2025
- FOR 413 Wildland Fire Ecology and Management  
Fall of every year. 3(3-0) P: ~~(FOR 340 or concurrently) or (IBIO 355 or concurrently) P: {(FOR 340 or concurrently) or (IBIO 355 or concurrently)} and FOR 215 RB: FOR 204~~  
Role of fire in regulating forest ecosystem distribution, composition, structure, and function. Field trips required.  
Effective Spring Semester 2025

- FOR 419 Applications of Geographic Information Systems to Natural Resources Management  
Spring of every year. 4(2-4) ~~Interdepartmental with Biosystems Engineering, Biosystems Engineering, Biosystems Engineering, Biosystems Engineering, Fisheries and Wildlife, Geography~~ Interdepartmental with Fisheries and Wildlife, Geography P: FOR 128 or FW 293 RB: GEO 221  
Application of geographic information systems, remote sensing, and global positioning systems to integrated planning and management for fish, wildlife, and related resources.  
Effective Spring Semester 2025
- FOR 438 Forest Resource Economics  
Fall of every year. 3(2-2) P: ~~((EC 201) and completion of Tier I writing requirement) and (MTH 124 or MTH 132 or LB 118) and (STT 201 or STT 224 or STT 231 or STT 421)~~ P: ((EC 201) and completion of Tier I writing requirement) and (STT 201 or STT 224 or STT 231 or STT 421) R: Not open to freshmen or sophomores.  
Basic economic and social science principles and techniques that govern human consumption and production of forest resources, including investment and benefit-cost, and regional impact analysis, and social impact assessment.  
SA: FOR 464, FOR 462  
Effective Spring Semester 2025

### **DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES**

- GEO 203 Introduction to Meteorology  
Fall of every year. 3(3-0)  
~~Fundamentals of meteorology. Energy balance, adiabatic processes, horizontal motion, cyclogenesis, and severe weather.~~ Fundamentals of weather and climate. Energy balance, water balance, horizontal motion, cyclones, severe weather, and climate change.  
Effective Fall Semester 2025

### **DEPARTMENT OF HISTORY**

- HST 475 History of the Book: From Manuscripts to Comics  
Fall of even years. 3(3-0) Interdepartmental with English P: (HST 201 or ENG 210 or approval of department) and Completion of Tier I Writing Requirement R: Not open to freshmen.  
History of the book from medieval manuscripts to modern forms. Publishing, illustration, censorship, manuscript and print culture.  
Effective Spring Semester 2025

### **SCHOOL OF JOURNALISM**

- JRN 420 Capital News Service  
Fall of every year. Spring of every year. ~~3(2-2) 4(0-8)~~ A student may earn a maximum of 6 credits in all enrollments for this course. A student may earn a maximum of 8 credits in all enrollments for this course.  
Supervised professional experience in covering Michigan politics and state government as correspondent. Student work and bylines appear in professional print and online media, preparing them for the industry.  
Effective Spring Semester 2025
- JRN 820 Capital News Service  
Fall of every year. Spring of every year. ~~3(1-4) 4(0-8)~~ P: JRN 800 or approval of school R: Open to master's students in the College of Communication Arts and Sciences or in the School of Journalism or in the Journalism Major or approval of school. R: Open to master's students.  
Supervised professional experience in covering politics and state government as correspondents for selected media. Student work appears in professional print and online media.  
Effective Spring Semester 2025

**DEPARTMENT OF LINGUISTICS, LANGUAGES AND CULTURES**

- LLT 346 Pedagogical English Grammar for English Teachers  
Fall of every year. 3(3-0) ~~P: (LIN 200 or concurrently) or (LIN 401 or concurrently) or (ENG 302 or concurrently)~~ P: (LIN 200 or concurrently) or (LIN 401 or concurrently) or (ENG 302 or concurrently) or (LLT 322 or concurrently)  
Teaching grammar to English-as-second language (ESL) students. Grammar lesson plan development. English grammar, error identification, common English-as-second language errors, evaluation of grammar textbooks, and the role of error correction in English-as-second language teaching.  
Effective Spring Semester 2025
- LLT 361 Second and Foreign Language Learning  
Fall of every year. Spring of every year. 3(3-0) ~~P: (LIN 200 or concurrently) or (LIN 401 or concurrently) or (ENG 302 or concurrently)~~ P: (LIN 200 or concurrently) or (LIN 401 or concurrently) or (ENG 302 or concurrently) or (LLT 322 or concurrently)  
Basic principles of learning a second or foreign language. Issues in first language acquisition. Theories of second language learning. Aptitude, motivation, attitude, learning grammar, age, learning in a classroom, myths, and facts about second language learning.  
Effective Spring Semester 2025

**DEPARTMENT OF MECHANICAL ENGINEERING**

- ME 422 Introduction to Combustion  
Fall of every year. 3(3-0) ~~P: (ME 332 or concurrently)~~ P: (ME 332 or concurrently) or (ME 333 or concurrently) R: Open to juniors or seniors in the Mechanical Engineering Major. R: Open to juniors or seniors.  
Thermodynamics, chemistry, fluid mechanics, and heat transfer principles applied to combustion.  
Effective Spring Semester 2025
- ME 440 Aerospace Propulsion  
Fall of every year. 3(3-0) ~~P: ME 332~~ P: ME 332 or ME 333 R: Open to juniors or seniors in the Mechanical Engineering Major.  
Fundamentals of thrust and propulsion systems, including gas turbines, ramjets, rockets and electric devices. Compressible flow through nozzles and shocks. Cycle analysis of airbreathing jet propulsion and chemical rocket propulsion. Performance and design of propulsion components.  
Effective Spring Semester 2025
- ME 441 Aerodynamics and Aircraft Performance  
Spring of every year. 3(3-0) ~~P: ME 332~~ P: ME 332 or ME 333 R: Open to juniors or seniors in the Mechanical Engineering Major.  
Solutions to inviscid and viscous fluid dynamical equations. Aerodynamics of airfoils, wing and fuselage. Aircraft performance parameters and basics of flight, including cruise, turning, takeoff and landing. Introduction to stability, including control surfaces, longitudinal and lateral stability and power effects.  
Effective Spring Semester 2025
- ME 442 Turbomachinery  
Spring of every year. 3(3-0) ~~P: (ME 332)~~ P: ME 332 or ME 333 R: Open to juniors or seniors in the Mechanical Engineering Major.  
Applying energy, momentum, and continuity equations of thermo-fluids to turbomachinery. Blade geometry and aerodynamics. Performance and design parameters. Turbomachine design.  
Effective Spring Semester 2025

**COLLEGE OF NURSING**

- NUR 822      Practicum I: Primary Care for the Family  
Fall of every year. 6(0-18) P: NUR 821 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
Integration of assessment and applied theory in primary care management of clients across the life span. Collaborative model of primary care practice. Health promotion, health maintenance management, and risk reduction strategies for individuals within the context of family. Single acute condition focus. Problem-oriented format for organizing client data.  
Request the use of the Pass-No Grade (P-N) system.  
SA: NUR 522  
DELETE COURSE  
Effective Summer Semester 2024
- NUR 832      Practicum I: Primary Care for the Adult and Aged  
Fall of every year. 6(0-18) P: NUR 836 R: Open to graduate students in the Master of Science in Nursing or in the Nurse Practitioner Graduate Certificate.  
Integration of assessment and applied theory in clinical care management of the adult and aged. Health promotion/wellness, health maintenance/management and risk reduction strategies. Acute conditions. Interpretation and integration of various forms of patient health data. Collaborative, collegial model of practice.  
Request the use of the Pass-No Grade (P-N) system.  
DELETE COURSE  
Effective Summer Semester 2024
- NUR 862      Clinical Nurse Specialist Role Internship  
Fall of every year. 8(2-18) P: NUR 807 RB: Open only to master's students in the Clinical Nurse Specialist-Nurse Education concentration. R: Open to graduate students in the Master of Science in Nursing.  
Role development of the clinical nurse specialist as an applied nurse scientist, expert in nursing practice, and professional leader.  
DELETE COURSE  
Effective Summer Semester 2024
- NUR 885      Anesthesia Practicum I  
Summer of every year. 1(0-7) P: NUR 879  
Design and management of the operating room. Principles and techniques of sterility, intravenous and arterial cannulation, and course of anesthesia. Basic drugs and monitors, anesthesia management plan, documentation, and ethical considerations in anesthesia practice.  
Request the use of the Pass-No Grade (P-N) system.  
DELETE COURSE  
Effective Summer Semester 2024
- NUR 964      DNP Practicum I  
Fall of every year. Spring of every year. Summer of every year. 3 credits. P: NUR 960 and NUR 961 R: Open to doctoral students in the College of Nursing.  
Provides the clinical opportunity to analyze, synthesize, and implement integrated nursing knowledge and skills in achieving patient and health system outcomes system's assessment and needs analysis within the healthcare environment.  
Request the use of the Pass-No Grade (P-N) system.  
DELETE COURSE  
Effective Summer Semester 2024

### COLLEGE OF OSTEOPATHIC MEDICINE

OST 402

OST 450

Introduction to Global Health

On Demand. 3(3-0)

Introductory topics in global health.

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.

SA: OST 402

Effective Spring Semester 2025

### SCHOOL OF PACKAGING

PKG 102

Introductory Packaging Seminar

Fall of every year. Spring of every year. 2(2-0) P: PKG 101 or concurrently ~~R: Open to undergraduate students in the Packaging Major.~~ R: Open to undergraduate students in the School of Packaging or approval of department.

Packaging career choices in science, management and engineering. Creativity in packaging designs and career decisions.

Effective Spring Semester 2025

PKG 221

Packaging with Glass and Metal

Fall of every year. Spring of every year. 2(2-0) P: (CEM 141 or CEM 151 or LB 171) and (PHY 231 or PHY 231C or PHY 183 or PHY 183B or LB 273) and (PKG 102 or concurrently) ~~R: Open to sophomores or juniors or seniors in the Packaging Major.~~ R: Open to undergraduate students in the School of Packaging or approval of department.

Physical and chemical properties of glass and metals and their applications to packaging.

SA: PKG 320, PKG 325

Effective Spring Semester 2025

PKG 315

Packaging Decision Systems

Fall of every year. Spring of every year. 3(2-2) P: (MTH 132 or MTH 152H or LB 118) and (PKG 221 or concurrently) ~~R: Open to sophomores or juniors or seniors in the School of Packaging.~~ R: Open to undergraduate students in the School of Packaging or approval of department.

Communication, analysis, and problem solving in the management, specification, production, sustainability, economics and testing of packaging.

SA: PKG 415

Effective Spring Semester 2025

PKG 322

Packaging with Paper and Paperboard

Fall of every year. Spring of every year. 4(3-2) P: ((PKG 221 or concurrently) and PKG 101) and (MTH 133 or MTH 153H or LB 119) and (CEM 143 or CEM 251 or CEM 351) and (STT 200 or STT 201 or STT 315 or STT 351) ~~R: Open to sophomores or juniors or seniors or graduate students in the School of Packaging.~~ R: Open to undergraduate students in the School of Packaging or approval of department.

Physical and chemical properties, manufacture, conversion, and use of wood, paper, paperboard, and related components in packaging. Design, use, and evaluation of packages.

SA: PKG 325

Effective Spring Semester 2025

PKG 323

Packaging with Plastics

Fall of every year. Spring of every year. 4(3-2) P: ((PKG 221 or concurrently) and PKG 101) and (MTH 133 or MTH 153H or LB 119) and (STT 200 or STT 201 or STT 315 or STT 351) and (CEM 143 or CEM 251 or CEM 351) ~~R: Open to sophomores or juniors or seniors or graduate students in the School of Packaging.~~ R: Open to undergraduate students in the School of Packaging or approval of department.

Physical and chemical properties of plastics and their relationship to selection, design, manufacture, performance, and evaluation of packages.

SA: PKG 320

Effective Spring Semester 2025

- PKG 410      Distribution Packaging Dynamics  
Fall of every year. Spring of every year. 4(3-2) P: PKG 322 and PKG 323 ~~R: Open to sophomores or juniors or seniors or graduate students in the School of Packaging.~~ R: Open to undergraduate students in the School of Packaging or approval of department. Not open to students with credit in PKG 803.  
Identification and measurement of hazards in physical distribution. Methods of protection against climate, shock, vibration, and compression.  
SA: PKG 310  
Effective Spring Semester 2025
- PKG 411      Package Development Technology  
Fall of every year. Spring of every year. 3(2-2) ~~P: (PKG 322 and PKG 323) and ((PKG 315 or concurrently) or EGR 102)~~ P: (PKG 322 or concurrently) and (PKG 323 or concurrently) R: Open to undergraduate students in the School of Packaging and open to graduate students in the School of Packaging or approval of department.  
Development of consumer packaging utilizing current technology tools. Integration of package structure, graphics and performance. Examination and application of current practices in packaging development.  
Effective Spring Semester 2025
- PKG 430      Packaging for Fast-Moving Consumer Goods  
Fall of every year. 3(3-0) P: PKG 315 and PKG 322 and PKG 323 ~~R: Open to juniors or seniors or graduate students in the School of Packaging.~~ R: Open to undergraduate students in the School of Packaging and open to graduate students in the School of Packaging or approval of department.  
Package graphics and structure in fast-moving consumer goods packaging and marketing. Consumer experience, printing and decoration. Preparation, production, and economics of packaging graphics.  
SA: PKG 330  
Effective Spring Semester 2025
- PKG 432      Packaging Processes  
Fall of every year. Spring of every year. 4(3-2) P: (PKG 322 and PKG 323) and (PHY 232 or PHY 232C or PHY 184 or PHY 184B or PHY 294H or LB 274) ~~R: Open to sophomores or juniors or seniors or graduate students in the School of Packaging.~~ R: Open to undergraduate students in the School of Packaging and not open to graduate students in the School of Packaging or approval of department.  
Integrated study of packaging and production operations, quality control, and organization and control of machines. Interrelationship of products, packaging, machinery layout and efficiency, and quality issues.  
Effective Spring Semester 2025
- PKG 485      Packaging Development (W)  
Fall of every year. Spring of every year. 4(4-0) ~~P: ((PKG 410 and PKG 432) and completion of Tier I writing requirement) and (PKG 315 or EGR 102) and (PKG 411 or concurrently)~~ P: ((PKG 410 and PKG 432) and completion of Tier I writing requirement) and (PKG 411 or concurrently) ~~R: Open to seniors or graduate students in the School of Packaging.~~ R: Open to seniors in the School of Packaging or approval of department.  
Package development including selection, design and implementation of package systems for protection, distribution, merchandising, use and disposal.  
Effective Spring Semester 2025

### DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

- PHM 809 ~~Drug Discover and Medicinal Chemistry~~ Drug Discovery and Medicinal Chemistry  
~~Spring of even years. Spring of odd years. 2(2-0)~~ Interdepartmental with Chemistry RB: BS in Biomedical science discipline (including, but not limited to chemistry, biochemistry, pharmacology, chemical engineering, molecular biology, biology, pharmacy, human biology, physiology.) ~~R: Open to doctoral students in the Department of Chemistry or in the Department of Pharmacology and Toxicology or approval of department.~~ R: Open to doctoral students in the Department of Chemistry or in the Department of Biochemistry and Molecular Biology or in the Pharmacology and Toxicology Major or approval of department.  
Fundamentals of pharmaceutical drug discovery including basic chemistry, drug-design principles, high throughput screening, computational modeling, and drug metabolic pathways.  
Effective Spring Semester 2025

### DEPARTMENT OF PHYSICS AND ASTRONOMY

- PHY 481 Electricity and Magnetism I  
Fall of every year. 3(3-0) P: MTH 234 or MTH 254H or LB 220 P: (PHY 184 or PHY 294H or LB 274) and (MTH 234 or MTH 254H or LB 220) and CMSE 201 R: Open to juniors or seniors or graduate students.  
Electrostatics, dielectrics, magnetic fields of steady state currents, Faraday law of induction.  
Effective Spring Semester 2025

### DEPARTMENT OF PSYCHOLOGY

- PSY 870 ~~Ecological-Community Psychology~~ Field Research in Community Psychology I  
Fall of every year. 3(3-0) P: (PSY 815 or concurrently) and (PSY 865 or concurrently) ~~RB: PSY 815 or concurrently RB: ((PSY 815 or concurrently) and (PSY 871 or concurrently)) and PSY 815 and PSY 871 or concurrently~~ R: Open only to graduate students in the Department of Psychology. R: Open to graduate students in the Department of Psychology or approval of department.  
~~Theory, methodology and research in experimental ecological approaches to community psychology. Identifying researchable problems and funding. The dynamics of research teams.~~ Theory, methodology and research in mixed-method ecological approaches to community psychology.  
Effective Fall Semester 2025
- PSY 871 ~~History and Theory in Ecological-Community Psychology~~ Community Psychology: Theory and Practice  
Fall of every year. 3(3-0) ~~RB: PSY 815 or concurrently~~ RB: (PSY 815 or concurrently) or PSY 815 or concurrently R: Open only to graduate students in the Department of Psychology. R: Open to graduate students in the Department of Psychology or approval of department.  
~~Theoretical perspectives, contemporary problems, philosophies of science, and ethical issues facing the ecological psychologist.~~ Theoretical perspectives, contemporary problems, philosophies of science, and ethical issues facing the community psychologist.  
Effective Fall Semester 2025
- PSY 872 ~~Field Research in Psychology~~ Field Research in Community Psychology II  
Spring of every year. ~~3(2-2)~~ 3(3-0) ~~RB: PSY 815~~ RB: (PSY 815 and PSY 865 and PSY 871) or PSY 815, PSY 865, and PSY 871 R: Open only to graduate students in the Department of Psychology. R: Open to graduate students in the Department of Psychology or approval of department.  
~~Unobtrusive, observational, and interview measures. Policy analysis, proposal preparation, and research design.~~ Qualitative research design and measurement in community psychology.  
Effective Fall Semester 2025

### DEPARTMENT OF RELIGIOUS STUDIES

- REL 320 Christianity  
Spring of even years. 3(3-0) ~~R: Not open to freshmen.~~  
Origins and historical development of Christianity. Rituals, institutional forms (Eastern Orthodox, Catholic, Protestant). Monastic and mendicant movements. Major doctrines and their development. Contemporary status and role.  
Effective Spring Semester 2025

### DEPARTMENT OF ROMANCE AND CLASSICAL STUDIES

- FRN 210 Delving into the History of France  
Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: ((FRN 201 or concurrently) or FRN 203) or designated score on French Placement test ~~R: Not open to juniors or seniors or approval of department.~~  
Discovering key moments in the history of France. Reading and discussing written works (from pop culture and/or literary productions) and/or studying other media focusing on historical events (including but not limited to films, songs, paintings, comics, etc.) in their context.  
Effective Summer Semester 2025
- FRN 220 Delving into the Minorities in the Francosphere  
Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: ((FRN 201 or concurrently) or FRN 203) or designated score on French Placement test ~~R: Not open to juniors or seniors or approval of department.~~  
Study of minority populations in the French-speaking world. Reading written works (from pop culture and/or literary productions) and/or studying other media by or about minorities and discussing these productions (including but not limited to films, songs, blogs, graffiti, etc.) in their context.  
Effective Summer Semester 2025
- FRN 230 Delving into French Pronunciation  
Fall of every year. Spring of every year. 1(1-0) A student may earn a maximum of 2 credits in all enrollments for this course. P: ((FRN 201 or concurrently) or FRN 203) or designated score on French Placement test ~~R: Not open to juniors or seniors or approval of department.~~  
Discovering key elements in French pronunciation; focusing on discriminating similar sounds in listening and speaking; enhancing oral comprehension of French  
Effective Summer Semester 2025
- FRN 240 Delving into French Readings  
Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: ((FRN 201 or concurrently) or FRN 203) or designated score on French Placement test ~~R: Not open to juniors or seniors or approval of department.~~  
Discovering the literature of the French-speaking world through the reading and discussion of selected literary texts. Reading written literary productions and interpreting them. Discovering the time period and context in which they were written.  
Effective Summer Semester 2025
- FRN 250 Delving into the Francosphere  
Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: ((FRN 201 or concurrently) or FRN 203) or designated score on French Placement test  
Discovering the diversity of the French-speaking world. Reading written works (from pop culture and/or literary productions) and/or studying other media productions (including but not limited to films, songs, blogs, graffiti, etc.) produced in or about the French-speaking world. Discovering the context in which they were written.  
Effective Summer Semester 2025

- FRN 440 Perspectives in Literature and the Arts of the Francosphere  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. ~~P: (FRN 330 or approval of department) and (FRN 340 or FRN 320 or FRN 340 or approval of department) and (FRN 310 or FRN 320 or FRN 340 or approval of department)~~ P: (FRN 340) and (FRN 310 or FRN 320 or FRN 330 or FRN 350)  
Literary genres and artistic movements in the Francosphere from the Middle Ages to the 21st century. Historical, political, and societal contexts of these literary and artistic movements. Topics will vary depending on the semester.  
Effective Summer Semester 2025
- FRN 450 Perspectives in the Cultures of the Francosphere  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. ~~P: (FRN 330 or approval of department) and (FRN 340 or FRN 320 or FRN 340 or approval of department) and (FRN 310 or FRN 320 or FRN 340 or approval of department)~~ P: (FRN 350) and (FRN 310 or FRN 320 or FRN 330 or FRN 340) or approval of department)  
In-depth exploration of societies and cultures of the French-speaking world. Analysis of the histories, cultural practices, literary and artistic productions, politics, and language of various Francophone regions. Topics will vary depending on the semester.  
Effective Summer Semester 2025
- ROM 803 Foundations of Contemporary Language Teaching  
Fall of every year. 3(3-0) ~~Interdepartmental with Chinese, German~~  
Theoretical and research foundations for communicative and proficiency-oriented instruction of World languages with implications for the classroom.  
Effective Spring Semester 2025

### **COLLEGE OF SOCIAL SCIENCE**

- SSC 442 Social Science Data Analytics Applications  
Fall of every year. Spring of every year. 3(3-0) ~~Interdepartmental with Geography~~ 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.  
Effective Spring Semester 2025

### **DEPARTMENT OF WRITING, RHETORIC, AND CULTURES**

- WRA 101 Writing as Inquiry  
Fall of every year. Spring of every year. Summer of every year. 4(4-0) ~~P: (WRA 1004) or designated score on English Placement test~~ Not open to students with credit in LB 133 or MC 111 or MC 112 or RCAH 111 or WRA 195H or AL 110.  
~~The study and practice of invention, arrangement, revision, style, and delivery to help students make successful transitions to writing, reading, and researching in higher education.~~ Introductory writing course focused on process of inquiry, productive writing strategies and practices (drafting, reviewing, revising, reflecting).  
Effective Spring Semester 2025
- WRA 195H Writing as Inquiry Honors  
Fall of every year. Spring of every year. 4(4-0) ~~P: Designated score on English Placement test~~ Not open to students with credit in AL 110 or LB 133 or MC 111 or MC 112 or RCAH 111 or WRA 101.  
~~The study and practice of varieties of invention, arrangement, revision, style and delivery to help students make successful transitions to writing, reading, and researching in higher education.~~ Introductory writing course focused on inquiry and productive writing practices (drafting, reviewing, revising, and reflecting). WRA 195H is aligned with the standard curriculum for WRA 101, with additional opportunities to extend and enrich learning opportunities provided by course projects.  
Effective Spring Semester 2025