

MICHIGAN STATE UNIVERSITY

**Report of
THE UNIVERSITY COMMITTEE ON CURRICULUM
to the Faculty Senate
March 17, 2020**

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

MICHIGAN STATE UNIVERSITY
University Committee on Curriculum

March 17, 2020

TO: Faculty Senate

This report is prepared and distributed for the following purposes:

1. To report new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
2. To notify the initiating colleges, schools, and departments of approval by the University Committee on Curriculum of their requests for new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses. Any items not approved by the Faculty Senate will be reported to the appropriate college and department or school.
3. To provide information to members of the faculty in each department about academic programs and courses in all colleges, departments, and schools of the University.

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

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

PART II - NEW COURSES:¹

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

PART III - COURSE CHANGES:¹

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

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

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, 2020

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. Change the requirements for the **Master of Science** degree in **Biosystems Engineering** in the Department of Biosystems and Agricultural Engineering. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.
 - a. Under the heading **Requirements for the Master of Science Degree in Biosystems Engineering** make the following changes:
 - (1) Under the heading **Requirements for Both Plan A and Plan B**, add the following item 3.:

Complete one course in statistics at the 400-level or above from MSU that was not used to meet the requirements of the undergraduate degree. An approved list of courses is maintained in the department.
 - (2) Under the heading **Additional Requirements for Plan A** delete items 2., and 3., and replace with the following:
 2. Pass a final oral examination over, and in defense of, the written thesis. The final examination is administered by the department and conducted by the student's guidance committee.
 3. Submit at least one paper to a refereed journal before scheduling the oral examination in defense of the thesis. The student must be the primary author, and the manuscript must be based on work completed during the master's program. The guidance committee will recommend a list of appropriate refereed journals. These requirements may be waived under extraordinary circumstances at the request of the advisor or guidance committee and approval by the graduate director and department chairperson.
 4. Provide to the major professor and to the department an electronic copy of the thesis approved by ProQuest.
 - (3) Under the heading **Additional Requirements for Plan B**, replace the entry with the following:

The student must:

 1. Carry out a project and pass the final examination administered by the student's guidance committee over the course work in the student's approved program of study.
 2. Include both a written and an oral component of the examination. The examination structure and expectations will be conveyed by the student's guidance committee or major professor, to the student prior to the examination.
 3. Submit a formal report of the Plan B project.

Effective Fall 2020.

2. Change the requirements for the **Doctor of Philosophy** degree in **Biosystems Engineering** in the Department of Biosystems and Agricultural Engineering. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

a. Under the heading **Requirements for the Doctor of Philosophy Degree in Biosystems Engineering** replace the entire entry with the following:

1. Complete a minimum of 38 additional course credits (excluding BE 899 or BE 999) beyond the bachelor's degree, at the 400-level or higher, approved by the student's guidance committee. The specific courses that a student is required to complete will depend on prior academic background in relation to the selected area of study and research, and must include the following:

BE	815	Experimentation and Instrumentation in Biosystems Engineering	3
BE	820	Research Methods in Biosystems Engineering	1
BE	835	Modeling Methods in Biosystems Engineering	3
BE	892	Biosystems Engineering Seminar	1
2. Complete one course in a biological science at Michigan State University at the 400-level or above. The courses applied to the bachelor's program cannot be used to satisfy this requirement. An approved list of courses will be maintained by the department.
3. Complete one course in quantitative analysis or mathematics at Michigan State University at the 400-level or above. The courses applied to the bachelor's program cannot be used to satisfy this requirement. An approved list of courses will be maintained by the department.
4. Complete one course in statistics at Michigan State University at the 800-level or above. The courses applied to the bachelor's program cannot be used to satisfy this requirement. An approved list of courses will be maintained by the department.
5. Complete a minimum of 24 credits of BE 999 Doctoral Dissertation Research. Students may not exceed 36 credits of BE 999.
6. Pass the doctoral qualifying examination.
7. Pass the doctoral comprehensive examination within five years of the date of first course enrollment that counts to the student's program of study and at least six months prior to the final oral examination in defense of the dissertation. The examination may be retaken once.
8. Submit at least two papers to refereed journals before scheduling the oral examination in defense of the dissertation. The student must be the primary author, and the manuscripts must be based on work completed during the Ph.D. program. The guidance committee will recommend a list of appropriate refereed journals. This requirements can be waived under extraordinary circumstances at the request of the advisor or guidance committee and approval by the graduate director and department chairperson.
9. Pass the final oral examination in defense of the dissertation. The examination may be retaken once.
10. Provide to the major professor, and to the department, an electronic copy of the dissertation approved by ProQuest.

Effective Fall 2020.

3. Change the requirements for **Bachelor of Science** degree in **Environmental Studies and Sustainability** in the Department of Community Sustainability.

a. Under the heading **Requirements for the Bachelor of Science Degree in Environmental Studies and Sustainability** make the following changes:

- (1) In item 3. e. add the following course:
- | | | | |
|------|-----|----------------------------|---|
| CSUS | 459 | Clean Energy System Policy | 3 |
|------|-----|----------------------------|---|
- (2) In item 3. f. change the requirement to “Four of the following courses (12 or 13 credits)”
- Add the following course:
- | | | | |
|------|-----|---|---|
| CSUS | 426 | Conservation Planning and Adaptive Management | 3 |
|------|-----|---|---|

Effective Fall 2020.

4. Change the requirements for the **Bachelor of Science** degree in **Dietetics** in the Department of Food Science and Human Nutrition.

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

- (1) In item 3. a. delete the following courses:
- | | | | |
|-----|-----|--------------------------------------|---|
| HNF | 377 | Applied Community Nutrition | 4 |
| HNF | 400 | Arts and Science of Food Preparation | 2 |
- Add the following courses:
- | | | | |
|-----|------|---|---|
| HNF | 377 | Applied Community Nutrition | 3 |
| HNF | 377L | Applied Nutrition Assessment Laboratory | 1 |
| HNF | 446 | Applied Culinary Nutrition | 2 |
- (2) In item 3. b. delete item (4):
- The following course (3 credits):
- | | | | |
|-----|-----|-------------------------------------|---|
| CSE | 101 | Computing Concepts and Competencies | 3 |
|-----|-----|-------------------------------------|---|
- Students who pass a waiver examination will not be required to complete Computer Science and Engineering 101.

Effective Fall 2020.

5. Change the requirements for the **Bachelor of Science** degree in **Nutritional Sciences** in the Department of Food Science and Human Nutrition.

The concentrations in the Bachelor of Science degree in Nutritional Sciences are noted on the student's academic record when the requirements for the degree have been completed.

a. Under the heading **Requirements for the Bachelor of Science Degree in Nutritional Sciences** make the following changes:

- (1) In item 3. a. (5), add ‘HNF 475’ to the list of courses in sentence three.
- (2) In item 3. b. under the **Global Nutrition and Health** concentration, make the following changes:

- (a) In item (1) change the credits of 'HNF 377' from '4' to '3' and add the following course:

HNF	377L	Applied Nutrition Assessment Laboratory	1
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- (b) In item (8) add the following course with the following additional note:

HNF	475	International Studies in Human Nutrition	3
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A course used to fulfill requirement 3. a. (5) may not be used to fulfill this requirement.
- (3) In item 3. b. under the **Public Health Nutrition** concentration, make the following changes:
 - (a) Change the total credits from '40 to 44' to '39 to 43'.
 - (b) In item (1) change the total credits from '23' to '22' and change the credits of 'HNF 377' from '4' to '3'
 - (c) In item (5) add the following course with the following note:

HNF	475	International Studies in Human Nutrition	3
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A course used to fulfill requirement 3. a. (5) may not be used to fulfill this requirement.

Effective Fall 2020.

COLLEGE OF ARTS AND LETTERS

- 1. Change the requirements for the **Minor in Jewish Studies** in the College of Arts and Letters.
 - a. Under the heading **Requirements for the Minor in Jewish Studies** make the following changes:
 - (1) Under the heading **History** add the following course:

HST	411	European Jewish History	3
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 - (2) Under the heading **Religious Studies** add the following course:

REL	414	Jewish Identity (W)	3
-----	-----	---------------------	---
 - (3) Add the following option:

Students majoring in a College of Social Science major may complete a minimum of 15 credits from the following set of requirements in fulfillment of the minor requirements in lieu of the requirements above. Students who plan to complete these requirements should consult an undergraduate advisor in the College of Social Science and the Director of the Serling Institute for Jewish Studies and Modern Israel. The requirements will meet the College of Social Science college interdisciplinary minor requirement.

 - a. The following courses (6 credits):

HST	317	American Jewish History	3
HST	392	History of the Holocaust	3
 - b. One of the following courses (4 credits):

MC	335	Israeli Politics, Cultures, and Society	4
MC	387	Jews and Antisemitism	4
 - c. Two of the following courses (6 to 8 credits):

ENG	356	Readings in Jewish Literature	3
-----	-----	-------------------------------	---

HEB	102	Elementary Hebrew II	4
HEB	201	Second-Year Hebrew I	4
HEB	202	Second-Year Hebrew II	4
JS	390	Special Topics in Jewish Studies	4
JS	400	Study Abroad in Jewish Studies (W)	2 to 4
JS	495	Seminar in Jewish Studies (W)	3 or 4
REL	310	Judaism	3
REL	412	Jewish Mysticism (W)	3
REL	413	Jewish Philosophy (W)	3
REL	414	Jewish Identity (W)	3

Effective Summer 2020.

2. Change the requirements for the **Disciplinary Teaching Minor in English** that is available for secondary certification in the Department of English. The Teacher Education Council (TEC) approved this request at its February 3, 2020 meeting.

a. Under the heading **ENGLISH** replace the entire entry with the following:

1. All of the following courses (9 credits):

ENG	210	Foundations of Literary Study I	3
ENG	302	Introduction to English Language Studies	3
ENG	308	Readings in Literature for Young Adults	3
2. One of the following courses (3 or 4 credits):

ENG	280	Foundations of Literary Study II	3
FLM	230	Introduction to Film	4
3. One of the following courses (4 credits):

ENG	320A	Methodologies of Literary History: Genre	4
ENG	320B	Methodologies of Literary History: Region, School, or Movement	4
ENG	320C	Methodologies of Literary History: Canon Formation	4
4. One of the following courses (3 or 4 credits):

ENG	360	Studies in Postcolonial and Diaspora Literature (W)	3
ENG	362	Studies in Modern/Contemporary Literature (W)	3
ENG	364	Studies in 18th-/19th-Century Literature (W)	3
ENG	368	Studies in Medieval/Early Modern Literature (W)	3
ENG	408	Critical Literacies and Communities	4
5. At least one additional 300-400 level ENG course (3 or 4 credits). Students pursuing secondary certification may not use ENG 490 or 493 to meet this requirement. Students may substitute TE 448 Issues of Diversity in Children's and Adolescent Literature, to fulfill this requirement.

Effective Fall 2020.

3. Change the requirements for the **Bachelor of Arts** degree in **German** in the Department of Linguistics and Germanic, Slavic, Asian and African Languages. The Teacher Education Council (TEC) approved this request at its February 3, 2020 meeting.

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

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

The completion of requirement 3. a. (7) referenced below satisfies one of the cognates required by the College. The second cognate must be in a field outside the College.

- (2) In item 3. a. (1) add the following courses:

- | | | | | |
|-----|-----|-----|---|---|
| | GRM | 303 | Third-Year German: German Genders | 3 |
| | GRM | 304 | Third-Year German: German Media | 3 |
| (3) | | | In item 3. a. (3) add the following course: | |
| | GRM | 461 | Applied Linguistics for German Learners
and Teachers | 3 |
| (4) | | | Delete item 3. a. (7). Cognate Requirement. | |

Effective Fall 2020.

4. Change the requirements for the **Minor in German** in the Department of Linguistics and Germanic, Slavic, Asian and African Languages.
 - a. Under the heading **Requirements for the Minor in German** make the following changes:
 - (1) Change the credits of GRM 201 and GRM 202 from '4' to '3'.
 - (2) Add the following statement to item 3.:

At least 3 credits must be at the 400-level.

Effective Fall 2020.

5. Change the requirements for the **Disciplinary Teaching Minors in German** available for elementary and secondary teacher certification in the Department of Linguistics and Germanic, Slavic, Asian and African Languages. The Teacher Education Council (TEC) approved this request at its February 3, 2020 meeting.
 - a. Under the heading **GERMAN** make the following changes:
 - (1) In item 1., add the following courses:

	GRM	303	Third-Year German: German Genders	3
	GRM	304	Third-Year German: German Media	3

Effective Fall 2020.

ELI BROAD COLLEGE OF BUSINESS

1. Change the requirements for the **Master of Science** degree in **Accounting** in the Department of Accounting and Information Systems. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.
 - a. Under the heading **Admission**, in paragraph three, replace item 1. with the following:
 1. a bachelor's degree in accounting from a recognized educational institution with a minimum grade-point average of 3.0; or a bachelor's degree in another major from a recognized educational institution with a minimum grade-point average of 3.0 and completion of the following prerequisite courses: intermediate finance, and probability and statistics.

Effective Fall 2020.

2. Change the requirements for the **Bachelor of Arts** degree in **Finance** in the Department of Finance.

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

(1) In item 1., paragraph two, delete Mathematics 124 and replace with Statistics and Probability 200.

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

a. Major Field of Concentration. A minimum grade-point average of 2.0 in the courses that are listed below. Students intending to take additional course work in Accounting should substitute ACC 300 Intermediate Financial Accounting I for ACC 305.

(1) All of the following courses (9 credits):

ACC	305	Intermediate Accounting for Finance Majors	3
FI	312	Introduction to Investments	3
FI	414	Advanced Business Finance (W)	3

(2) Complete an additional 9 credits from an approved list of Finance elective courses available from the College's Undergraduate Academic Services Unit.

Effective Summer 2020.

3. Change the requirements for the **Linked Bachelor's-Master's Degree in Marketing Research** in the Department of Marketing. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

a. Under the heading **Linked Bachelor's-Master's Degree in Marketing Research**, change the maximum number of credits applied toward the master's program from '9' to '10' credits.

Effective Fall 2020.

COLLEGE OF COMMUNICATION ARTS AND SCIENCES

1. Change the name of the **Master of Arts** degree in **Advertising to Advertising and Public Relations** in the Department of Advertising and Public Relations.

Students admitted to the major prior to Fall 2020 will be awarded a Master of Arts Degree in Advertising.

Students admitted to the major Fall 2020 and forward will be awarded a Master of Arts Degree in Advertising and Public Relations.

Effective Fall 2020.

2. Change the requirements for the **Master of Arts** degree in **Advertising and Public Relations** in the Department of Advertising and Public Relations. The University Committee on Graduate Studies (UCGS) approved this at its February 10, 2020 meeting.

a. Under the heading **Admission**, in the first paragraph, delete the following:

The Graduate Record Examination (GRE) General Test is also required. The Graduate Management Admission Test (GMAT) is not required, but scores on this test may be submitted.

b. Under the heading **Admission**, in the second paragraph, delete item 6.:

Graduate Record Examination (GRE) scores.

- c. Under the heading **Requirements for the Master of Arts Degree in Advertising and Public Relations** replace the entire entry with the following:

Requirements for Both Plan A and Plan B (15 credits):

All of the following courses (15 credits):

ADV	800	Advertising and Public Relations Theory	3
ADV	815	Ethical Practice in Advertising and Public Relations	3
ADV	825	Advertising and Public Relations Strategies	3
ADV	835	Multimedia Content Creation for Advertising and Public Relations	3
COM	803	Introduction to Quantitative Research Methods	3

Additional Requirements for Plan A (15 credits):

1. The following course (3 to 8 credits):
ADV 899 Master's Thesis Research 3 to 8
2. Additional elective course work at the 400-level or above to meet the 30 credits required for the degree. The course work must be approved by the student's academic advisor. Not more than 6 credits in ADV 890 and ADV 893 combined may be counted toward the requirements for the Master of Arts Degree in Advertising and Public Relations. Not more than 6 elective credits may be taken from outside the College of Communication Arts and Sciences.
3. Completion of a master's thesis.

Additional Requirements for Plan B (15 credits):

1. Additional elective course work at the 400-level or above to meet the 30 credits required for the degree. The course work must be approved by the student's academic advisor. Not more than 6 credits in ADV 890 and ADV 893 combined may be counted toward the requirements for the Master of Arts Degree in Advertising and Public Relations. Not more than 6 elective credits may be taken from outside the College of Communication Arts and Sciences.
2. The final certifying experience is a poster presentation during the semester of graduation.

Effective Fall 2020.

3. Change the name of the **Linked Bachelor's-Master's Degree in Advertising to Advertising and Public Relations**.

Effective Fall 2020.

4. Change the requirements for the **Linked Bachelor's-Master's Degree in Advertising and Public Relations** in the Department of Advertising and Public Relations. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Linked Bachelor's-Master's Degree in Advertising** make the following changes:

- (1) Delete the reference to 'Graduate Record Examination scores'.

Effective Fall 2020.

5. Change the name of the **Linked Bachelor's-Master's Degree in Advertising to Advertising and Public Relations**.

Effective Fall 2020.

6. Change the requirements for the **Linked Bachelor's-Master's Degree in Advertising and Public Relations** in the Department of Advertising and Public Relations. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

a. Under the heading **Linked Bachelor's (Advertising Management)-Master's Degree in Advertising** make the following changes:

(1) Delete the reference to 'Graduate Record Examination scores'.

Effective Fall 2020.

7. Establish a **Bachelor of Arts** degree in **Public Relations** in the Department of Advertising and Public Relations. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its December 5, 2019 meeting.

a. **Background Information:**

MSU's Public Relations minor was established as a specialization in 2000. At that time, social media was but a glimmer in Mark Zuckerberg's eyes. The Public Relations Minor was devised to give students from a number of majors – advertising, journalism, communication, James Madison and professional writing – a way to enhance and round out their skills. Based on the industry's needs at the time, the minor primarily focused on the traditional public relations skills of publicity and media relations.

Twitter – the preeminent microblogging social media tool – was launched in 2006. By 2012, Twitter had reached 100 million users posting nearly 350 million tweets a day. Other social media platforms like Facebook and LinkedIn experienced similar growth over the same time period. Organizations quickly realized that social media was not a fad, and that it brought unprecedented opportunities and challenges for economic activity, relationship management and reputation management.

Public Relations specialists are uniquely positioned to serve these needs. Thanks largely to the entrenchment of social media, the industry has experienced a 10-year period of substantial growth in new positions. In 2006, the U.S. Bureau of Labor Statistics estimated there were 243,000 people working as public relations specialists in the United States. By 2016, that number had grown to 259,000 – a 9% increase. The Bureau of Labor Statistics projects that growth to be sustained over the next 10 years, with the number of public relations specialist positions projected at 282,000 by 2026. A large percentage of these new jobs are being created to manage social media.

The last major revision of the Public Relations minor took place in 2007. This revision occurred on the leading edge of the social media wave. The revision was based primarily on a set of recommendations offered by the Association for Education in Journalism and Mass Communication (AEJMC), and incorporated as much of the curricula recommended by that report as could be accommodated under the course hours limitations of a minor. This revision contemplated incorporating technology into the curriculum, but did not contemplate the dramatic impact social media would ultimately have on the practice.

Over the ensuing decade, that impact has become clear. Public Relations specialists must be armed with the theory and practical skills needed to strategically manage social media as an integral part of public relations programs, as well as the traditional skills MSU's Public Relation Minor focuses on. As digital natives, our students have been able to ride the social media wave with little formal training. In terms of leveraging social media for strategic communication and business outcomes, however, they are "digitally naïve," as have been most employers. In addition, they continue to need traditional public relations skills in writing, strategy, media relations and the like, as our program provides. As social media roles are created and evolve, organizations have relied on recent graduates to invent jobs like social media manager, digital strategist, online or community engagement specialist, and others, on the fly. Growth will continue in this area, but with a decade of experience, organizations have become far more digitally sophisticated. These roles are formalizing, as are expectations for skills employers expect new graduates to have.

This means that, going forward, our graduates will have to present with skills gained from life experience, internship experience and formal training in both traditional public relations practice as

well as digital and social media. No longer will they be able to rely on their status as digital natives to create jobs that don't exist. Instead, they will begin to compete for the jobs their predecessors created and have grown out of – and those predecessors will be their supervisors.

MSU's Public Relations minor is set up to provide training in the traditional Public Relations skills of media relations and publicity, strategic campaign planning, public relations research methods, and public relations theory. For comprehensive training that will prepare students for the new digital reality, MSU's program must also provide a battery of courses in digital and social media skills. In order to deliver all of that, we need to offer course work that exceeds the capacity of a minor.

The Department of Advertising and Public Relations is therefore seeking to create a Public Relations major to provide students with a comprehensive and current set of skills that will prepare them to compete successfully for internships and jobs – as well as forward-looking competencies to prepare them for jobs that have not even been created yet. We also intend to maintain the Public Relations minor as it currently exists, to support students in related majors like Advertising, Communication, Journalism, Professional Writing and James Madison College. Students in such majors will enhance their marketability by having basic public relations training, but do not necessarily need the depth of a student seeking a Public Relations career.

At MSU, public relations is primarily a career path students discover after enrolling. They come to MSU intending to study something else, and for a variety of reasons wind up changing their major. That population is currently served in a limited way by the Public Relations minor. The Public Relations major would offer a more in-depth academic program to support the interests of these students, and better prepare them for the growing number of public relations jobs that require both traditional and digital public relations skills.

There are at least 256 universities offering Public Relations majors in the USA (www.bachelorsportal.com/search/#q=ci-82|di-309|lv-bachelor). Many more offer minors or specializations, as MSU does. In Michigan, a number of universities offer Public Relations majors. Those that would be comparable to MSU are Central Michigan University, Western Michigan University, Wayne State University, Ferris State University, Eastern Michigan University, and Grand Valley State University. Nationally, MSU's peer group includes Syracuse University, University of Florida, University of Alabama, University of Georgia and DePaul University. Big Ten schools with a Public Relations major include Penn State, Rutgers and Nebraska. Indiana offers a concentration.

There are no federal standards for public relations programs, and there is no dominant accrediting body. The Commission on Public Relations Education (cited previously) periodically studies public relations education and offers recommendations for best practices. This proposal is heavily informed by CPRE's most current report. The Public Relations Society of America administers a program called "Certification in Education for Public Relations." Some of MSU's peer institutions have this certification. The certification process is rigorous, and contemplates factors like student-faculty ratio, faculty credentials, campus resources, student organizations, and curricular/extracurricular experiential learning opportunities.

b. Academic Programs Catalog Text:

The Bachelor of Arts degree in Public Relations provides the educational and experiential background necessary for students aspiring to become public relations specialists, public relations account managers, media relations specialists, social media managers content managers, event coordinators and more. The program focuses on developing strategic planning skills, applied skills in writing and content creation, and critical thinking, along with research-oriented and analytical skills.

Internships and other cooperative educational opportunities are required in the program. Students may also choose to pursue related minors in Advertising Analytics, Entrepreneurship and Innovation, Sales Leadership, or Sports Business Management.

Co-curricular activities include public relations and advertising associations and clubs, as well as national student competitions. Study abroad programs provide ways for students to gain experience that enhance and reach outside of the classroom, further advancing their employment opportunities upon graduation.

The major is designed to provide an understanding of the role of public relations in contemporary society, as well as knowledge and experience in developing public relations materials for use in

corporate, governmental, and nonprofit organizational settings. Areas of focus include public relations research methods; writing for traditional and social media; public relations techniques; public relations strategies; portfolio development; public relations campaign planning; diversity, equity and inclusion in public relations; and public relations ethics.

Admission

Enrollment in the Bachelor of Arts degree in Public Relations is limited and competitive.

To be considered for admission to the major, a student must:

1. Have completed 28 credits.
2. Have earned a combined minimum grade-point average of at least 3.0 in Mathematics 101 or 102 or Statistics 200; Advertising 260; and Advertising 225.
3. Have a cumulative grade-point average of 3.0.

Students wishing to major in public relations must make a request to the Public Relations Program Director or delegate when they are eligible and ready to be considered. Incoming students who declare the major in public relations are automatically reviewed at the end of every semester and are either admitted or informed of their progress. Students who are not admitted will be eligible to reapply after correcting whatever deficiency is noted in their first application. Students may only reapply once. If the second application is deficient, no further applications will be considered.

Requirements for the Bachelor of Arts Degree in Public Relations

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Public Relations.
 The University's Tier II writing requirement for the Public Relations major is met by completing Public Relations 485. That course is referenced in item 3. below.
2. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
3. The following requirements for the major:

				CREDITS
a.			One of the following courses (3 credits):	
	MTH	101	Quantitative Literacy I	3
	MTH	102	Quantitative Literacy II	3
	STT	200	Statistical Methods	3
b.			Both of the following courses (6 credits):	
	ADV	225	Writing for Public Relations	3
	ADV	260	Principles of Public Relations	3
c.			All of the following courses (24 credits):	
	PR	300	Public Relations Theory and Ethics	3
	PR	305	Methods of Public Relations Inquiry	3
	PR	310	Diversity, Equity, and Inclusion in Public Relations and Advertising	3
	PR	320	Public Relations Storytelling for Digital, Video and Print	3
	PR	325	Intermediate Social Media and Public Relations Techniques	3
	PR	335	Advanced Social Media and Public Relations Techniques	3
	PR	425	Public Relations Strategy and Ethics In a Digital World	3
	PR	485	Integrated Public Relations Campaigns (W)	3
d.			Cognate (15 credits):	

The cognate consists of a set of courses that can be selected from one of the following thematic areas: business, fine arts, physical and biological sciences, social sciences, or an approved university minor administered outside of Public Relations. At least 6 credits must be at the 300-400 level. A list of departments or courses that count in each of the thematic areas is available in the CCAS Academic and Student Affairs Office.

e. Public Relations Field Experience

Each student must complete 250 hours of professional public relations internship or research experience under faculty supervision. Hours may be accumulated through public relations internships, public relations research or a combination. Experiences must have the prior approval of the Public Relations Internship Coordinator and require a concluding report from the employer and the student, and may be taken as an elective class. Internships taken for credit cannot be counted toward the Cognate described in 2.d.

Effective Fall 2020.

8. Change the requirements for the **Master of Arts** degree in **Communicative Sciences and Disorders** in the Department of Communicative Sciences and Disorders. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Requirements for the Master of Arts Degree in Communicative Sciences and Disorders**, make the following change:

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

CSD	820	Language Assessment and Intervention: Early Stages	3
CSD	821	Language Assessment and Intervention: Later Stages	3

Add the following courses:

CSD	824	Developmental Language Disorders	3
CSD	825	Autism and Related Neurodevelopmental Disorders	3

- b. Under the heading **Additional Requirements for Plan A**, replace the entry with the following:

1. The following courses (6 credits):
CSD 890 Independent Study 2
CSD 899 Master's Thesis Research 4
2. Successful completion of an oral thesis defense.

Effective Fall 2020.

9. Change the requirements for the **Doctor of Philosophy** degree in **Communicative Sciences and Disorders** in the Department of Communicative Sciences and Disorders. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Admission** add the following statement at the end of the paragraph:

, including career goals following graduation. In some circumstances, an extremely promising student with an undergraduate degree may be admitted directly to the Ph.D. program.

- b. Under the heading **Requirements for the Doctor of Philosophy Degree in Communicative Sciences and Disorders** replace the entire entry with the following:

Students must meet the requirements specified below:

1. Students entering the program without a master's degree will complete at least 18 credits of graduate-level course work, including 9 credits of clinically-focused

- courses from CSD, as well as a research experience equivalent to the preparation for a master's thesis.
2. Students with a master's degree who did not complete a clinical master's in communicative sciences and disorders within 3 years of enrolling in the doctoral program will select 6 to 9 credits from the CSD clinical course work. Additional clinical courses may also be required of students with a clinical master's degree as determined by the guidance committee. Students who are not required to take CSD clinical courses may still elect to take such courses in consultation with their guidance committee.
 3. **Core Courses (6 to 9 credits):**
 All students will successfully complete at least 2 of 4 courses addressing fundamental aspects of the field of communicative sciences and disorders, including:

CSD	901	Speech Perception	3
CSD	902	Speech Production	3
CSD	903	Language Science	3
CSD	904	Hearing Science	3

 These courses are not offered every semester or every year. Students are encouraged to plan carefully so they can take courses of interest while being mindful of which courses will be available during their programs.
 4. All students will select methods and skills courses in statistics and experimental design, as well as in related areas including signal processing, programming, instrumentation, or imaging. As part of these credits, students will be required to gain course work and/or experience in the scholarship and fundamentals of research and teaching.
 5. All students will take 18 to 24 credits of advanced graduate specialized study courses in their area of research interest. Courses may be within the Department of Communicative Sciences and Disorders or within other departments at the University. Students may split these specialized study courses into a primary and secondary area as appropriate for their goals and interests. The specific courses that students take must be approved by the guidance committee.
 6. In addition to approved course work, all students will engage in the experiences designed to prepare them for academic work in the field, including the responsible conduct of research, research ethics, and grant writing.
 7. Successfully complete a one-semester laboratory rotation in a lab other than their primary mentor's lab, in order to gain experience with other ways of approaching research.
 8. Successfully complete a pre-dissertation research project reflecting a semi-independent research study that is acceptable for publication in a scholarly journal.
 9. Successfully complete a written and oral comprehensive examination designed to assess the student's knowledge about topics related to the student's program of study.
 10. Successfully complete a written and oral defense of a dissertation, including 24 to 36 credits of CSD 999: Doctoral Dissertation Research. The dissertation must be based upon original research that represents a contribution to the scientific knowledge base of human communicative sciences and disorders.

Effective Fall 2020.

10. Change the requirements for the **Minor in Animation and Comics Storytelling** in the School of Journalism.
 - a. Under the heading **Requirements for the Minor in Animation and Comics Storytelling** replace the entire entry with the following:

Complete 15 credits from the following.

			CREDITS
1.	All of the following courses (12 credits):		
	JRN 212	2D Animation Storytelling	3
	JRN 312	Stop Motion Animation Storytelling	3
	JRN 412	Scoring for Moving Pictures	3

2.	JRN	413	3D Animation Storytelling	3
	One of the following courses (3 credits):			
	ENG	325	Readings in Graphic Narrative	3
	JRN	213	Comics, Culture and Graphic Novels	3
	JRN	313	Political Cartoons	3
	JRN	338	Information Graphics	3
	JRN	345	Images and Messages	3

Effective Fall 2020.

COLLEGE OF EDUCATION

1. Change the requirements for the **Bachelor of Arts** degree in **Education** in the Department of Teacher Education. The Teacher Education Council (TEC) approved this request at its February 3, 2020 meeting.

The concentrations referenced in item 2.c. in the Bachelor of Arts degree in Education are noted on the student's academic record when the requirements for the degree have been completed.

- a. Under the heading **Requirements for the Bachelor of Arts Degree in Education** replace the entire entry with the following:

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

The completion of Mathematics 201 referenced in item 2. b. (4) below may also satisfy the University Mathematics requirement.

The University's Tier II writing requirement for the Education major is met by completing Teacher Education 301 and 404. Those courses are referenced in item 2.

2. The following requirements for the major:

				CREDITS
a.	Professional Education Courses (16 credits):			
(1)	All of the following courses (16 credits):			
	CEP	240	Diverse Learners in Multicultural Perspectives	3
	TE	101	Social Foundations of Justice and Equity in Education	3
	TE	102	Pedagogy and Politics of Justice and Equity in Education	3
	TE	150	Reflections on Learning	3
	TE	371	Justice and Equity Seminar I	1
	TE	372	Justice and Equity Seminar II	1
	TE	471	Justice and Equity Seminar III	1
	TE	472	Justice and Equity Seminar IV	1
b.	Elementary Education Courses (25 or 26 credits):			
(1)	All of the following courses (10 credits):			
	TE	100	Introduction to Early Childhood and Elementary Education	1
	TE	333	Social Studies for Young Learners (PK-6)	3
	TE	403	Teaching Science to Diverse Learners-Elementary	3
	TE	404	Teaching Social Studies to Diverse Learners-Elementary (W)	3
(2)	Language Acquisition and Development			
	One of the following courses (3 or 4 credits):			
	LIN	200	Introduction to Language	3
	LIN	401	Introduction to Linguistics	4

- (3) **Literacy**
 Both of the following courses (6 credits):
 TE 301 Children’s Literacy Development (W) 3
 TE 348 Reading and Responding to Children’s Literature 3

- (4) **Mathematics**
 Both of the following courses (6 credits):
 MTH 201 Elementary Mathematics for Teachers I 3
 MTH 202 Elementary Mathematics for Teachers II 3
 The completion of Mathematics 201 may satisfy the university mathematics requirement. Mathematics 201 and 202 are prerequisites for Teacher Education 406 or 406A and must be completed with a minimum grade-point of 2.0 prior to enrollment in Teacher Education 406 or 406A.

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

Prekindergarten through Grade Three (29 credits):

All of the following courses:

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

Grade Three through Grade Six (21 or 22 credits):

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

AAAS	100	Race and Community in Local to Global Perspective	3
AIS	201	Introduction to American Indian and Indigenous Studies	3
CLS	201	Introduction to Chicano/Latino Studies	3
HST	208	Introduction to African History, Culture and Society	4
HST	210	Modern East Asia	4
HST	309	American Indian History: Precontact to the Present	3
HST	310	African American History to 1876	3
HST	311	African American History since 1876	3
HST	312	African American Women	3
HST	327	History of Mexican Americans in the United States	3
HST	365	The Vietnam War	3
HST	366	Modern Southeast Asia	3
HST	371	Women and Gender in Asia	3
HST	383	The Caribbean	3
HST	384	Modern Mexico	3
PLS	304	Minority Politics	3
PLS	351	African Politics	3
SOC	214	Social Inequality	3
SOC	215	Race and Ethnicity	3
SOC	375	Urban Sociology	3
SSC	293	Introduction to Asian Pacific American Studies	3
TE	352	Immigrant Language and Culture	3

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

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

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

TE	430	Introduction to Arts in the Classroom	3
----	-----	---------------------------------------	---

- | | | | | |
|----|--|-----|--|---|
| | TE | 431 | Learning through Drama | 3 |
| | TE | 432 | Learning through Movement | 3 |
| 4. | All of the following courses (12 credits): | | | |
| | ISE | 301 | Science for Elementary Schools | 3 |
| | TE | 332 | Science Curriculum for Upper Elementary Learners (3-6) | 3 |
| | TE | 405 | Teaching Literacy to Diverse Learners (3-6) | 3 |
| | TE | 406 | Teaching Mathematics to Diverse Learners (3-6) | 3 |
- d. **Teaching English to Speakers of Other Languages** (17 or 21 credits):
 Completion of this requirement along with the requirements of 2.b.(2) above satisfies the course requirements for the additional endorsement in English as a Second Language. For students who elect to complete the Birth to Kindergarten and Prekindergarten through Grade Three grade band requirements, this requirement is satisfied by completing TE 341 along with those requirements. These students should refer to the *Early Childhood-General and Special Education* requirements under *Requirements for the Disciplinary Teaching Minors* in the section on TEACHER CERTIFICATION below. These students do not meet the course requirements for the additional endorsement in English as a Second Language.
- (1) All of the following courses (14 credits):
- | | | | | |
|--|-----|-----|--|---|
| | LLT | 307 | Methods of Second and Foreign Language Teaching | 3 |
| | LLT | 346 | Pedagogical English Grammar for English Teachers | 3 |
| | LLT | 361 | Second and Foreign Language Learning | 3 |
| | TE | 494 | Field Experience in Teacher Education | 5 |
- (2) Complete either (a) or (b) (3 or 6 credits):
- | | | | | |
|-----|-----|-----|-----------------------------|---|
| (a) | ANP | 420 | Language and Culture | 3 |
| (b) | COM | 310 | Intercultural Communication | 3 |
| | Or | | | |
| | COM | 320 | Diversity and Communication | 3 |
| | LIN | 471 | Sociolinguistics | 3 |
- e. **Optional Additional Teaching Endorsements**
 Students may elect to complete one or more optional disciplinary teaching minor(s), in addition to the required grade band concentration and English as a Second Language requirements. The following disciplinary teaching minors are available for prospective elementary school teachers.
- | | |
|----------|----|
| Arabic | 20 |
| Chinese | 24 |
| French | 21 |
| German | 23 |
| Japanese | 24 |
| Spanish | 24 |
- Requirements for the disciplinary teaching minors can be found in the section *Requirements for the Disciplinary Teaching Minors* in the section on TEACHER CERTIFICATION, below. Students wishing to complete one or more of the following optional disciplinary teaching majors, in addition to the grade band concentration and English as a Second Language requirements, should refer to *Teacher Certification Options* in the catalog sections for the colleges, departments, and schools that administer disciplinary majors that are available for teacher certification.
- College of Arts and Letters:
- Arabic
 - Chinese
 - French
 - German
 - Japanese
 - Spanish

COLLEGE OF ENGINEERING

1. Change the requirements in the **Bachelor of Science** degree in **Computer Science** in the Department of Computer Science and Engineering.

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

- (1) In item 3. b. change the total credits from '28' to '32' and add the following courses:

CSE	300	Social, Ethical, and Professional Issues in Computer Science	1
MTH	314	Matrix Algebra with Computational Applications	3

- (2) In item 3. c. add the following course:

CSE	404	Introduction to Machine Learning	3
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Effective Fall 2020.

2. Change the requirements in the **Minor in Computer Science** in the Department of Computer Science and Engineering.

- a. Under the heading **Requirements for the Minor in Computer Science** make the following changes:

- (1) Change item 2. delete the following courses:

CSE	410	Operating Systems	3
CSE	422	Computer Networks	3
CSE	425	Introduction to Computer Security	3
CSE	435	Software Engineering	3
CSE	450	Translation of Programming Languages	3
CSE	473	Fundamentals of 3D Game Development	3
CSE	484	Information Retrieval	3

Add the following courses:

CSE	325	Computer Systems	3
CSE	402	Biometrics and Pattern Recognition	3
CSE	404	Introduction to Machine Learning	3
CSE	431	Algorithm Engineering	3
CSE	482	Big Data Analysis	3

Effective Fall 2020.

3. Change the requirements in the **Bachelor of Science** degree in **Computational Data Science** in the Department of Computer Science and Engineering.
- a. Under the heading **Requirements for the Bachelor of Science Degree in Computational Data Science** make the following change:

- (1) In item 3. b. change the total credits from '43' to '44' and add the following course:
- | | | | |
|-----|-----|--|---|
| CSE | 300 | Social, Ethical, and Professional Issues in Computer Science | 1 |
|-----|-----|--|---|

Effective Fall 2020.

COLLEGE OF LAW

1. Change the requirements for the **Master of Legal Studies** degree in **Legal Studies** in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Academic Requirements** make the following change:

- (1) In item 1., delete the following courses:
- | | | | |
|-----|------|---|---|
| LAW | 530D | Research, Writing and Analysis | 2 |
| LAW | 530E | Research, Writing and Analysis: Intellectual Property Perspective | 2 |
| LAW | 530N | Research, Writing and Analysis: Criminal Law Perspective | 2 |
| LAW | 530Q | Research, Writing and Analysis: Social Justice Perspectives | 2 |

Add the following courses:

LAW	530D	Research, Writing and Analysis	3
LAW	530E	Research, Writing and Analysis: Intellectual Property Perspective	3
LAW	530N	Research, Writing and Analysis: Criminal Law Perspective	3
LAW	530Q	Research, Writing and Analysis: Social Justice Perspectives	3

Effective Fall 2020.

2. Change the requirements for the **LL.M.** and **M.J.** degrees in the **American Legal System** in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Academic Requirements** make the following change:

- (1) In item 1., delete the following courses:
- | | | | |
|-----|------|---|---|
| LAW | 530D | Research, Writing and Analysis | 2 |
| LAW | 530E | Research, Writing and Analysis: Intellectual Property Perspective | 2 |
| LAW | 530N | Research, Writing and Analysis: Criminal Law Perspective | 2 |
| LAW | 530Q | Research, Writing and Analysis: Social Justice Perspectives | 2 |

Add the following courses:

LAW	530D	Research, Writing and Analysis	3
LAW	530E	Research, Writing and Analysis: Intellectual Property Perspective	3
LAW	530N	Research, Writing and Analysis: Criminal Law Perspective	3
LAW	530Q	Research, Writing and Analysis: Social Justice Perspectives	3

Effective Fall 2020.

3. Change the requirements for the **LL.M.** and **M.J.** degrees in **Global Food Law** in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **L.L.M. and M.J. in Global Food Law** replace the **Academic Requirements** with the following:

Academic Requirements

All students must complete 26 credits within five academic years with a 2.0 minimum cumulative grade-point average.

			CREDITS
1.	All of the following courses (11 credits):		
	LAW	558B Food and Drug Law	3
	LAW	810D International Food Laws and Regulations	3
	LAW	810K Administrative Law: Focus on Food Safety and Labeling	3
	LAW	811C Fundamentals of Food Science and Safety for Lawyers	2
	Students pursuing the M.J. degree will complete the following course in lieu of LAW 811C:		
	LAW	807A Foundations of Law and Legal Research	2
2.	At least 15 credits from the following courses:		
	LAW	512B International Business Transactions	3
	LAW	512K International Commercial Arbitration	3
	LAW	545K Halal Food: An Introduction to Islamic Laws and Ethics	2
	LAW	624 Directed Study	3
	LAW	566T Marijuana Law	1
	LAW	810M Regulation of Agricultural Production and Marketing	3
	LAW	810N Survey of Intellectual Property in Agriculture	3
	LAW	810P Biotechnology Law and Food Products	3
	LAW	810S Current Issues in Food Law Summer Seminar	2
	LAW	810 T Advertising Law: Food Focus	3
	LAW	810U Regulatory Leadership in Food Law	3
	LAW	810Z Food Law: Preventing Fakes and Counterfeits	3
	LAW	811A Food Law: Africa and the Middle East	3
	LAW	811B Special Topics in Global Food Law	3

Additional courses may be approved by the Associate Dean for Graduate and International Programs and Director of the Global Food Law Program. No more than 12 credits may be taken from LAW 810A, LAW 810B, LAW 810C, LAW 810E, LAW 810F, LAW 810V, LAW 810W, LAW 810X, LAW 810Y.

Effective Fall 2020.

3. Change the requirements for the **LL.M. and M.J.** degrees in **Intellectual Property and Communications Law** in the College of Law. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Academic Requirements** make the following change:

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

LAW	530D	Research, Writing and Analysis	2
LAW	530E	Research, Writing and Analysis: Intellectual Property Perspective	2

Add the following courses:

LAW	530D	Research, Writing and Analysis	3
LAW	530E	Research, Writing and Analysis: Intellectual Property Perspective	3

Effective Fall 2020.

LYMAN BRIGGS COLLEGE

1. Change the requirements for the **History, Philosophy and Sociology of Science** major leading to the **Bachelor of Science Degree in Lyman Briggs College**.

- a. Under the heading **Requirements for Bachelor of Science Degree in Lyman Briggs College** replace item 6. **History, Philosophy and Sociology of Science** with the following:

A minimum of 24 credits in 300–400 level courses chosen from the following with History, Philosophy, and Sociology of Science content approved by the student's HPS academic advisor. Courses used to fulfill the Lyman Briggs College graduation requirements and LB 492 may not be used to fulfill these requirements. A minimum of four courses from Lyman Briggs must be selected. Additional courses outside of Lyman Briggs may be used with advisor approval.

CSUS	310	History of Environmental Thought and Sustainability	3
CSUS	463	Food Fight: Politics of Food	3
CSUS	464	Environmental and Natural Resource Policy in Michigan	3
ENG	473A	Literature and Medicine	3
FW	439	Conservation Ethics	3
GEO	435	Geography of Health and Disease	3
HST	420	History of Sexuality since the 18th Century	3
HST	425	American and European Health Care since 1800	4
HRT	486	Biotechnology in Agriculture: Applications and Ethical Issues	3
IBIO	446	Environmental Issues and Public Policy	3
LB	304	Lesbian, Gay, Bisexual, Transgender, Queer (LGBTQ) and Sexuality Studies	3
LB	321A	Science and the Public- Arts and Humanities (W)	4
LB	321B	Science and the Public- Social Sciences (W)	4
LB	322A	Advances in Science and Technology- Arts and Humanities (W)	4
LB	322B	Advances in Science and Technology- Social Sciences (W)	4
LB	323A	Science in a Global Context- Arts and Humanities (W)	4
LB	323B	Science in a Global Context- Social Sciences (W)	4
LB	324A	Science and Sex, Gender, Sexuality- Arts and Humanities (W)	4
LB	324B	Science and Sex, Gender, Sexuality- Social Sciences (W)	4
LB	325A	Science and the Environment- Arts and Humanities (W)	4
LB	325B	Science and the Environment- Social Sciences (W)	4
LB	326A	Medicine and Health- Arts and Humanities (W)	4
LB	326B	Medicine and Health- Social Sciences (W)	4
LB	327A	Scientific Practice- Arts and Humanities (W)	4
LB	327B	Scientific Practice- Social Sciences (W)	4

LB	490E	Advanced Direct Study- History, Philosophy, Sociology of Science (W)	1 to 4
MC	351	Science and Social Policy	4
PHL	380	Nature of Science	3
PHL	462	Philosophy of Mind	3
PHL	480	Philosophy of Science	4
SOC	368	Science, Technology, and Society	4
SOC	452	Advanced Seminar in Environmental Sociology	3
SOC	475	Health and Society	3

Effective Summer 2020.

2. Change the requirements for the **Minor in History, Philosophy and Sociology of Science** in Lyman Briggs College.

- a. Under the heading **Requirements for Minor in History, Philosophy and Sociology of Science** replace the entire entry with the following:

A minimum of 20 credits in 300–400 level courses chosen from the following with History, Philosophy, and Sociology of Science content approved by the student's HPS academic advisor. A minimum of three courses from Lyman Briggs must be selected. Additional courses outside of Lyman Briggs may be used with advisor approval.

CSUS	310	History of Environmental Thought and Sustainability	3
CSUS	463	Food Fight: Politics of Food	3
CSUS	464	Environmental and Natural Resource Policy in Michigan	3
ENG	473A	Literature and Medicine	3
FW	439	Conservation Ethics	3
GEO	435	Geography of Health and Disease	3
HST	420	History of Sexuality since the 18th Century	3
HST	425	American and European Health Care since 1800	4
HRT	486	Biotechnology in Agriculture: Applications and Ethical Issues	3
IBIO	446	Environmental Issues and Public Policy	3
LB	304	Lesbian, Gay, Bisexual, Transgender, Queer (LGBTQ) and Sexuality Studies	3
LB	321A	Science and the Public- Arts and Humanities (W)	4
LB	321B	Science and the Public- Social Sciences (W)	4
LB	322A	Advances in Science and Technology- Arts and Humanities (W)	4
LB	322B	Advances in Science and Technology- Social Sciences (W)	4
LB	323A	Science in a Global Context- Arts and Humanities (W)	4
LB	323B	Science in a Global Context- Social Sciences (W)	4
LB	324A	Science and Sex, Gender, Sexuality- Arts and Humanities (W)	4
LB	324B	Science and Sex, Gender, Sexuality- Social Sciences (W)	4
LB	325A	Science and the Environment- Arts and Humanities (W)	4
LB	325B	Science and the Environment- Social Sciences (W)	4
LB	326A	Medicine and Health- Arts and Humanities (W)	4
LB	326B	Medicine and Health- Social Sciences (W)	4
LB	327A	Scientific Practice- Arts and Humanities (W)	4
LB	327B	Scientific Practice- Social Sciences (W)	4
LB	490E	Advanced Direct Study- History, Philosophy, Sociology of Science (W)	1 to 4
MC	350	Evolution and Society	4
MC	351	Science and Social Policy	4
PHL	380	Nature of Science	3
PHL	462	Philosophy of Mind	3
PHL	480	Philosophy of Science	4
SOC	368	Science, Technology, and Society	4
SOC	452	Advanced Seminar in Environmental Sociology	3
SOC	475	Health and Society	3

Effective Summer 2020.

COLLEGE OF MUSIC

1. Change the requirements for the **Graduate Certificate in Music Theory** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Under the heading **Requirements for the Graduate Certificate in Music Theory** make the following changes:

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

MUS 870 Advanced Modal Counterpoint 3
Students who take more than one of these courses may use one of these courses to fulfill 3 credits of the requirement in item 4. below.

- (2) In item 4. delete the following course:

MUS 870 Advanced Modal Counterpoint 3

Effective Fall 2020.

2. Change the **Master of Music** degree in **Music Theory** in the College of Music. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

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

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

MUS 978 Late 20th and 21st Century Techniques 2

- (2) Replace item 10. with the following:

Complete a capstone research project and publicly present it at a music theory colloquium to be advised and approved by a member of the music theory faculty. The project may be on either a research-related or a pedagogical topic, and must be similar in scope and format to a conference presentation. Students may choose a project begun or completed as part of either MUS 973 Readings in Music Theory or MUS 971 Pedagogy of Theory II and revise and expand it as determined by the faculty advisor or, with the approval of the area chair, they may work on a new project or expansion of a research paper from a different course.

Effective Fall 2020.

COLLEGE OF NURSING

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

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

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

Students who are enrolled in the Nursing major leading to the Bachelor of Science in nursing degree in the College of Nursing complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Biological Science 161, Chemistry 141 and 161, Microbiology and Molecular Genetics 201 and 302. Human Anatomy 350, and Physiology 250

or 310. The completion of Chemistry 161 and Microbiology and Molecular Genetics 302 satisfy the laboratory requirement.

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

The University's Tier II writing requirement for the Nursing major is met by completing Nursing 342 and 460, or Nursing 463. Those courses are referenced in item 2. below.

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

CEM	143	Survey of Organic Chemistry	4
-----	-----	-----------------------------	---

Add the following course:

CEM	161	General Chemistry Laboratory	1
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- (4) In item 2. a. delete the following course:

HDFS	225	Lifespan Human Development in the Family	3
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Add the following course:

HDFS	225	Lifespan Human Development in the Family	3
------	-----	--	---

Or

PSY	238	Developmental Psychology: Lifespan	3
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- (5) Replace item 3. a. with the following:

All of the following courses with a minimum grade of 2.0 in each NUR course (30 credits):

(1)	Any 300-level ISS course	4
(2)	NUR 351 BSN Impact on Healthcare	3
	NUR 352 Genetics: Transforming Healthcare	3
	NUR 353 BSN's Promoting Health Across the Care Continuum	3
	NUR 354 Research, ethics, and EBP for Nurses	3
	NUR 461 Community and Population Health	4
	NUR 462 Healthcare Policy, Regulation, and Finance	3
	NUR 463 Scholarly Project Seminar (W)	3
	NUR 465 Leadership Immersion	4

Effective Fall 2020.

COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the **Graduate Certificate in Environmental and Social System Modeling** in the College of Social Science. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

The Graduate Certificate in Environmental and Social System Modeling is a Type 2 graduate certificate and will appear on the transcript as “Graduate Certificate Program in Environmental and Social System Modeling”.

- a. Under the heading **Requirements for the Graduate Certificate in Environmental and Social System Modeling** make the following changes:

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

CSUS	851	Modeling Natural Resource Systems	3
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Add the following courses:

CSUS	836	Modeling Natural Resource Systems	3
GEO	869	Agent-Based Modeling	3

Effective Summer 2020.

2. Change the requirements for the **Graduate Specialization in Environmental Policy** in the College of Social Science. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

- a. Delete the option for doctoral students, major 7677.
- b. Under the heading **Requirements for the Graduate Specialization in Environmental Policy** make the following changes:

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

AEC	829	The Economics of Environmental Resources	3
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Add the following course:

AFRE	829	Economics of Environmental Resources	3
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Effective Summer 2020.

3. Change the requirements in the **Minor in International Development** in the College of Social Science.

- a. Under the heading **Requirements for the Minor in International Development** make the following changes:

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

PLS	344	Politics of Developing Areas	3
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- (2) In item 3. delete the following course:

EEP	260	World Food, Population and Poverty	3
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Add the following courses:

CSS	101	Introduction to Crop Science	3
CSS	120	Issues in Food and Agriculture	3

CSS	431	International Agriculture Systems	3
EEM	260	World Food, Population and Poverty	3

Effective Summer 2020.

4. 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) In item 2. add the following courses:

MTH	234	Multivariable Calculus	4
STT	200	Statistical Methods	3
STT	421	Statistics I	3
STT	441	Probability and Statistics I: Probability	3

(2) In item 3. add the following course:

MTH	235	Differential Equations	3
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Effective Summer 2020.

5. Change the requirements for the **Master of Arts** degree in **Anthropology** in the Department of Anthropology. The University Committee on Graduate Studies (UCGS) approved this request on February 10, 2020.

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

(1) Under the heading **Requirements for Both Plan A and Plan B**, in item 2., delete the following courses:

ANP	420	Language and Culture	3
ANP	820	Language and Cultural Meaning	3

This requirement may be waived by the department on the basis of prior course work.

(2) Renumber items 3. and 4. to items 2. and 3. respectively.

Effective Summer 2020.

6. Change the requirements for the **Doctor of Philosophy** degree in **Anthropology** in the Department of Anthropology. The University Committee on Graduate Studies (UCGS) approved this request on February 10, 2020.

a. Under the heading **Admission**, replace the paragraph with the following:

Students applying for admission to the Doctor of Philosophy degree program in Anthropology will be considered regardless of the field of their previous academic training. It is, however, recommended that students have earned at least 12 undergraduate credits in anthropology before entering the program. Admission on other than a provisional status is normally contingent upon the possession of a bachelor's degree from a recognized college or university, and a junior-senior undergraduate grade-point average 3.0 or better in academic studies.

b. Under the heading **Requirements for the Doctor of Philosophy Degree in Anthropology** make the following changes:

- (1) Delete item 2.:

ANP	420	Language and Culture	3
ANP	820	Language and Cultural Meaning	3

This requirement may be waived by the department on the basis of prior course work.
- (2) Renumber items 3., 4., 5., and 6. to items 2., 3., 4., and 5. respectively.

Effective Summer 2020.

7. Change the administrative responsibility for the **Minor in Race and Ethnicity in the United States** in the Department of Anthropology to the College of Social Science.
8. Change the requirements for the **Minor in Race and Ethnicity in the United States**.
 - a. Under the heading **Requirements for the Minor in Race and Ethnicity in the United States** make the following changes:

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

MC	319	Asian American History	4
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Add the following courses:

SSC	497	Flint Community Internship	3 to 12
SSC	498	Innovate Gov Internships	3 to 12

Effective Summer 2020.

9. Change the requirements for the **Doctor of Philosophy** degree in **Criminal Justice** in the School of Criminal Justice. The University Committee on Graduate Studies (UCGS) approved this request at its February 20, 2020 meeting.
 - a. Under the heading **Requirements for the Doctor of Philosophy Degree in Criminal Justice** replace the entire entry with the following:

Students who are enrolled in the Doctor of Philosophy degree program in Criminal Justice must complete a minimum of 60 credits.

1. Completion of 18 credits in Criminal Justice 801, 810, 901, 906, 909, and 910.
2. Students admitted directly from an undergraduate degree program must take Criminal Justice 811 and 887 as prerequisites to Criminal Justice 906, 907, 909, and 910. Criminal Justice 811 and 887 may not be counted toward doctoral program requirements.
3. Completion of 12 credits of additional elective courses at the 800 level or above as approved by the student's guidance committee.
4. Completion of two 3-credit doctoral research methods courses in the College of Social Science as approved by the student's guidance committee.
5. Satisfactory completion of 24 credits of Criminal Justice 999 and defense of a doctoral dissertation.

Normally students complete the requirements for the Doctor of Philosophy degree in four years.

Effective Fall 2020.

10. Change the requirements for the **Master of Science** degree in **Law Enforcement Intelligence and Analysis** in the School of Criminal Justice. The University Committee on Graduate Studies (UCGS) approved this request at its February 10, 2020 meeting.

a. Under the heading **Requirements for the Master of Science Degree in Law Enforcement Intelligence and Analysis** make the following changes:

(1) In item 2. add the following courses:

CJ	856	Advanced Topics in Policing	3
CJ	894	Practicum	3

Effective Summer 2020.

11. Change the administrative responsibility of the **Minor in Law, Justice and Public Policy** in the School of Criminal Justice to the College of Social Science.

12. Change the requirements in the **Minor in Law, Justice and Public Policy** in the College of Social Science.

a. Under the heading **Requirements for the Minor in Law, Justice and Public Policy** make the following changes:

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

SSC	498	Innovate Gov Internship	3 to 12
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(2) In item 3., add the following courses:

FW	181	Introduction to Science, Technology, the Environment and Public Policy	3
GSAH	310	Questions of Justice in Global Contexts	3
PHL	101	Introduction to Philosophy	3
PHL	340	Ethics	3
PHL	342	Environmental Ethics	3
PHL	353	Core Themes in Peace and Justice Studies	3

Effective Summer 2020.

13. Change the administrative responsibility for the **Minor in The City: Environment, Design and Society** in the Department of History to the College of Social Science.

14. Change the name of the **Minor in The City: Environment, Design and Society** to the **Minor in Cities: Environment, Design, and Society**.

Students admitted to the major prior to Fall 2020 will be awarded a Minor in The City: Environment, Design and Society.

Students admitted to the major Fall 2020 and forward will be awarded a Minor in Cities: Environment, Design, and Society.

Effective Fall 2020.

15. Change the requirements for the **Minor in Cities: Environment, Design, and Society**.

a. Under the heading **Requirements for the Minor in Cities: Environment, Design, and Society** make the following changes:

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

EC	438	Urban Economics (W)	3
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SSC	497	Flint Community Internship	3 to 12
SSC	498	Innovate Gov Internships	3 to 12
UP	458	Housing and Real Estate Development	3

(2) Replace item 3., with the following:

A minimum of 6 credits from the following courses:

CSUS	200	Introduction to Sustainability	3
CSUS	447	Community Economic Development	3
FOR	461	Urban and Community Forestry	3
HRT	460	Green Roofs and Walls	2
IDES	140	Design for Living	3
IDES	344	History of Interior Design: Ancient through Rococo	3
IDES	354	History of Interior Design: Neo-Classical through Modern	3
IDES	440	Contemporary Design Issues	2
LA	200	Introduction to Landscape Architecture	3
MC	367	Global Cities and Urbanism	4
MC	384	Metropolitan Society	4
PDC	403	Introduction to Domicology: Sustainable Built Environment	3
TE	351	Urban Education	3

Effective Summer 2020.

16. Change the administrative responsibility for the **Minor in Youth and Society** in the Department of Human Development and Family Studies to the College of Social Science.

17. Change the requirements for the **Minor in Youth and Society**.

a. Under the heading **Requirements for the Minor in Youth and Society** make the following changes:

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

SW	471	Child Welfare	3
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Add the following courses:

SSC	497	Flint Community Internship	3 to 12
SSC	498	Innovate Gov Internships	3 to 12

Effective Summer 2020.

18. Change the requirements for the **Bachelor of Arts** degree in **Human Capital and Society** in the School of Human Resources and Labor Relations.

a. Under the heading **Requirements for the Bachelor of Arts Degree in Human Capital and Society** make the following changes:

(1) In item 3. d. under **General** add the following course:

CEP	460	Communication Skill Training for the Helping Professional	3
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(2) In item 3. d. under **Human Capital Systems** add the following course:

CEP	470	Disability in a Diverse Society	3
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(3) In item 3. e. under **Economics** add the following courses:

EC	310	Economics of Developing Countries	3
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Effective Summer 2020.

19. Change the requirements in the **Minor in Leadership of Organizations** in the School of Human Resources and Labor Relations.

a. Under the heading **Requirements for the Minor in Leadership of Organizations** make the following changes:

(1) In item 2. add the following courses:

HST	312	African American Women	3
HST	313	Women in the United States to 1869	3
HST	314	Women in the United States since 1869	3
PLS	310	Public Administration and Policy	3

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

CSUS	422	Youth Leadership: Theory and Practice	3
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Add the following courses:

ACM	271	Introduction to Arts and Cultural Management	3
ACM	461	Strategies of Arts and Cultural Management	3
CEP	260	Dynamics of Personal Adjustment	3
ESHP	190	The Art of Starting	3
MGT	325	Management Skills and Processes	3
WRA	202	Introduction to Professional and Public Writing	3

Effective Summer 2020.

PART II - NEW COURSES

DEPARTMENT OF ADVERTISING AND PUBLIC RELATIONS

- ADV 800 Advertising and Public Relations Theory
Fall of every year. 3(3-0)
Concepts and theories relevant to advertising and public relations programs. Use of theory in the design and evaluation of advertising and public relations campaigns.
Effective Fall 2020
- ADV 815 Ethical Practice in Advertising and Public Relations
Fall of every year. 3(3-0)
Identify ethical issues in advertising and public relations. Law and regulation, advertising of controversial products, and effects of advertising on consumer culture. Examine ethical issues and frameworks through case studies.
Effective Fall 2020
- ADV 825 Advertising and Public Relations Strategies
Fall of every year. 3(3-0)
Strategic planning for advertising and public relations campaigns. Emphasis on research for strategy and campaign evaluation, media planning, media relations, and integrating advertising and public relations tactics.
Effective Fall 2020
- ADV 835 Multimedia Content Creation for Advertising and Public Relations
Spring of every year. 3(3-0)
Creating strategy-driven, multimedia content for advertising and public relations campaigns. Emphasis on campaign objectives, brand positioning, message strategy, and creative execution.
Effective Fall 2020
- ADV 840 Advertising and Public Relations for Social Impact
Spring of every year. 3(3-0)
Principles and techniques for social impact advertising and public relations campaigns. Emphasis on strategies for non-profit, activist, and political organizations.
Effective Fall 2020
- ADV 845 Advertising and Public Relations for Health, Science, and the Environment
Spring of every year. 3(3-0)
Principles and techniques for health, science, and environment advertising and public relations campaigns.
Effective Fall 2020
- PR 300 Public Relations Theory and Ethics
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: ADV 260 or concurrently
Theories of public relations, persuasion, social media interaction and mass communication as they apply to public relations, audience analysis and application of social media strategies. Theories of ethics, ethical codes in public relations and the ethical challenges in this field.
Effective Summer 2020
- PR 305 Methods of Public Relations Inquiry
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: (ADV 260 or concurrently) and (MTH 101 or MTH 102 or STT 200)
Nature and conduct of public relations inquiry. Formative research methods, data analytics and evaluative measures used for public relations campaign planning. Drawing samples, collecting and analyzing data, interpreting and reporting results.
Effective Summer 2020

- PR 310 Diversity, Equity, and Inclusion in Public Relations and Advertising
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: ADV 260 or concurrently
Exploration of issues pertaining to diversity, equity and inclusion (DEI) as they impact the
practice of public relations and advertising within the United States and globally. Effective
cross-cultural communication practices.
Effective Summer 2020
- PR 320 Public Relations Storytelling for Digital, Video and Print
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: PR 300 and PR 305 and
PR 310 R: Open to students in the Public Relations Major. Approval of department.
Theory and application of storytelling for corporate and public relations purposes in the
digital environment. Examination of established and emerging digital and social media
platforms. Content creation for public relations purposes in established and emerging
digital and social media platforms.
Effective Summer 2020
- PR 335 Advanced Social Media and Public Relations Techniques
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: PR 300 and PR 305 and
PR 310 and PR 325 R: Open to students in the Public Relations Major. Approval of department.
Advanced production of written, social media and video public relations messages to
achieve strategic organizational communication objectives. Techniques for measuring
success. Refinement of public relations portfolio.
Effective Summer 2020
- PR 485 Integrated Public Relations Campaigns (W)
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: (PR 300 and PR 305 and
PR 310 and PR 320 and PR 335 and PR 325 and PR 425) and completion of Tier I writing
requirement R: Open to students in the Public Relations Major.
Development of public relations campaigns for clients. Relationship-building, creative,
social media and digital marketing communication elements.
Effective Summer 2020
- PR 492 Special Topics in Public Relations
Fall of every year. Spring of every year. Summer of every year. 1 to 8 credits. A student may earn a
maximum of 9 credits in all enrollments for this course. RB: ADV 260 and ADV 225 R: Open to
students in the Public Relations Major. Approval of department.
Varied topics pertaining to the study of public relations processes. Not open to freshmen.
Effective Summer 2020
- PR 493 Public Relations Internship
Fall of every year. Spring of every year. Summer of every year. 1 to 15 credits. A student may earn
a maximum of 15 credits in all enrollments for this course. RB: PR 300 and PR 305 and PR 310 R:
Open to students in the Public Relations Major. Approval of department.
Supervised public relations experience in a professional environment, under faculty
supervision.
Request the use of the Pass-No Grade (P-N) system.
Effective Summer 2020
- PR 494 Public Relations Research Experience
Fall of every year. Spring of every year. Summer of every year. 1 to 15 credits. A student may earn
a maximum of 15 credits in all enrollments for this course. P: PR 300 and PR 305 and PR 310 R:
Open to students in the Public Relations Major. Approval of department.
Research experiences in various fields of emphasis in public relations under faculty
supervision.
Request the use of the Pass-No Grade (P-N) system.
Effective Summer 2020

DEPARTMENT OF ANTHROPOLOGY

- ANP 310 Archaeology of Human Migrations
Fall of even years. 3(3-0) P: ANP 201 or ANP 203 or ANP 206 or SOC 260 or approval of department R: Open to undergraduate students in the College of Arts and Letters or in the College of Social Science.
Deep history of human dispersals. Environmental, cultural, social drivers and consequences of migration.
Effective Fall 2020
- ANP 486 Environmental Archaeology
Spring of even years. 3(3-0) P: ANP 203 or approval of department
Archaeology of human-environment interactions. Theory, methods, and state of the art using global case studies.
Effective Spring 2021
- ANP 496 Undergraduate Research in Anthropology
Fall of every year. Spring of every year. Summer of every year. 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to students in the Department of Anthropology or approval of department.
Independent research in anthropology under the supervision of a faculty member.
Effective Fall 2019

DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS

- CSD 824 Developmental Language Disorders
Fall of every year. 3(3-0) R: Open to graduate students in the Department of Communicative Sciences and Disorders.
Nature, characteristics, evaluation, assessment, diagnosis, and intervention for children with developmental language and related disorders.
Effective Fall 2020
- CSD 825 Autism and Related Neurodevelopmental Disorders
Fall of every year. 3(3-0) P: CSD 824 R: Open to graduate students in the Department of Communicative Sciences and Disorders.
Nature, characteristics, evaluation, assessment, diagnosis, and intervention for children with autism and related neurodevelopmental disorders.
SA: CSD 823G
Effective Fall 2020
- CSD 901 Speech Perception
Fall of even years. 3(3-0) R: Open to students in the Communicative Sciences and Disorders Major.
Foundations of human speech perception, including phonetic variability, categorical perception, and loss of phonetic sensitivity during acquisition.
Effective Fall 2020
- CSD 902 Speech Production
Spring of odd years. 3(3-0) R: Open to students in the Communicative Sciences and Disorders Major.
Foundational process underlying the production of speech. Theories of motor speech production.
Effective Fall 2020
- CSD 903 Language Science
Fall of odd years. 3(3-0) RB: Enrollment in the CSD PhD program R: Open to students in the Communicative Sciences and Disorders Major.
Structure, development, and neurocognitive basis of spoken and written language systems. Disorders of linguistic communication. Signed languages.
Effective Fall 2020

- CSD 904 Hearing Science
Spring of even years. 3(3-0) RB: Enrollment in the CSD PhD program R: Open to students in the Communicative Sciences and Disorders Major.
Basics of the anatomy and physiology of the hearing system and function of the peripheral and central auditory system.
Effective Fall 2020
- CSD 910 Grant writing for researchers
Spring of even years. 3(3-0) RB: Enrollment in the CSD PhD program R: Open to students in the Communicative Sciences and Disorders Major. Approval of department.
Development of an early career independent research grant proposal. Familiarize students with federal funding agencies. Development of scientific writing and reasoning skills related to grant preparation and critique.
Effective Fall 2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- CSE 300 Social, Ethical, and Professional Issues in Computer Science
Fall of every year. Spring of every year. 1(1-0) R: Open to undergraduate students in the Computational Data Science Major or in the Computer Science Major.
Professional responsibilities and informed judgments in computing practice based on legal and ethical principles. Local and global impacts of computing solutions on individuals, organizations, and society.
Effective Fall 2020
- CSE 499 Undergraduate Research
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Open to students in the Department of Computer Science and Engineering or in the Computer Engineering Major or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major. Approval of department.
Independent undergraduate research in contemporary areas of computer science.
Request the use of the Pass-No Grade (P-N) system.
Effective Fall 2020

SCHOOL OF CRIMINAL JUSTICE

- CJ 910 Qualitative Methods
Fall of every year. 3(3-0) R: Open to doctoral students in the School of Criminal Justice.
Methodological approaches to conducting qualitative criminal justice and criminological research. Applications of qualitative analysis techniques to criminal justice data.
Effective Fall 2020

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

- ECE 884 Neural Networks and Deep Learning
Fall of every year. 3(3-0)
Fundamental understanding and advanced concepts in neural networks and deep-learning.
Effective Fall 2019

COLLEGE OF ENGINEERING

- EGR 193 Introduction to Experiential Education
Fall of every year. 1(1-0) RB: Students must have participated in a paid, supervised engineering experience. R: Open to freshmen in the College of Engineering. Approval of department.
A reflection on previous career-related work experiences and exploration of future career opportunities.
Request the use of the Pass-No Grade (P-N) system.
Effective Fall 2020
- EGR 391 Experiential Education I
Fall of every year. Spring of every year. Summer of every year. 1(1-0) R: Open to undergraduate students in the College of Engineering.
Supporting students' first internship through assessment and reflection to enhance career understanding.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Fall 2020
- EGR 392 Experiential Education II
Fall of every year. Spring of every year. Summer of every year. 1(1-0) P: EGR 391 R: Open to undergraduate students in the College of Engineering.
Supporting students' second internship through assessment and reflection to enhance career understanding.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Fall 2020
- EGR 493 Advanced Experiential Education I
Fall of every year. Spring of every year. Summer of every year. 1(1-0) P: EGR 392 R: Open to undergraduate students in the College of Engineering.
Supporting students' third internship through assessment and reflection to enhance career understanding.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Fall 2020
- EGR 494 Advanced Experiential Education II
Fall of every year. Spring of every year. Summer of every year. 1(1-0) A student may earn a maximum of 2 credits in all enrollments for this course. P: EGR 493 R: Open to undergraduate students in the College of Engineering.
Supporting students' fourth internship through assessment and reflection to enhance career understanding.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Fall 2020

DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION

- FSC 475 International Studies in Food Science
Fall of every year. Spring of every year. Summer of every year. 2 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: HNF 150 or FSC 211 R: Approval of department; application required.
Education abroad experience. Contemporary problems affecting food science and human nutrition in world, national and local communities.
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 2020
- HNF 377L Applied Nutrition Assessment Laboratory
Fall of every year. 1(0-2) P: HNF 377 or concurrently R: Open to juniors or seniors in the Dietetics Major or in the Nutritional Sciences Major or in the Lyman Briggs Nutritional Sciences Coordinate Major.
Nutrition assessment development for practitioners including community needs, communication skills, anthropometric, dietary, and clinical assessments.
Effective Fall 2020
- HNF 446 Applied Culinary Nutrition
Spring of every year. 2(3-3) P: HNF 300 and HNF 440
Person-centered approach to dining through food selection, culinary preparation techniques, menu extension planning, food safety, and quality assurance. Offered half of semester.
Effective Fall 2020
- HNF 475 International Studies in Human Nutrition
Fall of every year. Spring of every year. Summer of every year. 2 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: HNF 150 or FSC 211 R: Approval of department; application required.
Education abroad experience. Contemporary problems affecting food science and human nutrition in world, national and local communities.
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 2020

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

- GEO 829 Collection and Analysis of Drone Imagery
Spring of odd years. 4(2-4) P: GEO 324 or approval of department RB: Advanced level remote sensing coursework.
Multi-platform, sensor data collection, pre-processing and analysis across differing subfields; fieldwork and analysis.
Effective Spring 2021

SCHOOL OF HUMAN RESOURCES AND LABOR RELATIONS

- HRLR 494 Undergraduate Research in Human Capital and Society
Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. P: HRLR 201 and (HRLR 315 or concurrently) R: Open to undergraduate students in the College of Social Science or approval of school. Not open to students with credit in SSC 494.
Faculty-guided undergraduate research in disciplines encompassed in human capital and society.
Effective Summer 2020

MSU COLLEGE OF LAW

- LAW 533Z Intellectual Property and Cultural Protection
Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. R: Open to Law students or master's of law students or law lifelong students or law non degree students.
- REINSTATEMENT Regulating creativity in an interconnected world through intellectual property rights.
Effective Fall 2020
- LAW 811C Fundamentals of Food Science and Safety for Lawyers
Spring of every year. 0 to 6 credits. R: Open to law advanced students in the MSU College of Law or in the Global Food Law Major.
Fundamentals of food science and safety and their impact on food laws and regulations, and risk to manufacturers.
Effective Fall 2020

DEPARTMENT OF LINGUISTICS AND GERMANIC, SLAVIC, ASIAN AND AFRICAN LANGUAGES

- GRM 303 Third-Year German: German Genders
Fall of every year. Spring of every year. 3(3-0) P: (GRM 202) or designated score on German Placement test RB: Two years of college German, equivalent placement test score, or four years or more of K-12 German
Advanced speaking, listening comprehension, reading, and writing skills. Intensive work with authentic texts dealing with contemporary issues in the German-speaking world. Selected review of grammar and syntax. Focus on the exploration of gender in German culture, from linguistic forms to social roles.
Effective Spring 2020
- GRM 304 Third-Year German: German Media
Fall of every year. Spring of every year. 3(3-0) P: (GRM 202) or designated score on German Placement test RB: Two years of college German, equivalent placement test score, or four years or more of K-12 German
Advanced speaking, listening comprehension, reading, and writing skills. Intensive work with authentic texts dealing with contemporary issues in the German-speaking world. Selected review of grammar and syntax. Focus on German media throughout history. Intensive work with films, images, written texts, advertising, news, social media, video games, and other forms of expression.
Effective Spring 2020

COLLEGE OF NURSING

- NUR 351 BSN Impact on Healthcare
Fall of every year. Spring of every year. 3(3-0) R: Open to undergraduate students in the College of Nursing.
Application of curricular constructs to nursing practice, role differentiation and contribution of the BSN nurse to healthcare.
Effective Fall 2020
- NUR 352 Genetics: Transforming Healthcare
Fall of every year. Summer of every year. 3(3-0) R: Open to undergraduate students in the College of Nursing or approval of college.
Competencies and concepts in genetics and genomics for providing care to individuals, families and communities.
Effective Fall 2020
- NUR 354 Research, Ethics and EBP for Nurses
Fall of every year. Spring of every year. 3(3-0) R: Open to undergraduate students in the College of Nursing.
Introduction to evidence-based practice and research methodology to inform ethical nursing practice.
Effective Fall 2020

- NUR 461 Community and Population Health
Spring of every year. Summer of every year. 4(3-2) P: NUR 353 R: Open to undergraduate students in the College of Nursing.
Promoting and protecting public well-being using health promotion, risk reduction, and disease management strategies.
Effective Fall 2020
- NUR 462 Healthcare Policy, Regulation, and Finance
Spring of every year. Summer of every year. 3(3-0) R: Open to undergraduate students in the College of Nursing.
Influence and responsibility of professional nursing to society using organizational, legislative, financial and regulatory environments and processes.
Effective Fall 2020
- NUR 463 Scholarly Project Seminar (W)
Spring of every year. Summer of every year. 3(3-0) P: (NUR 351 and NUR 354) and completion of Tier I writing requirement R: Open to undergraduate students in the College of Nursing.
Application of evidence-based practice and research methodology to inform ethical nursing practice.
Effective Fall 2020
- NUR 464 Health in Our World
Fall of every year. Spring of every year. 4(4-0) R: Open to undergraduate students in the College of Nursing.
Local and global issues and their impact on health and humanity.
Effective Fall 2020

COLLEGE OF OSTEOPATHIC MEDICINE

- OST 593 Scholarly Activity Seminar
Fall of every year. Summer of every year. 1(1-0) R: Open to students in the College of Osteopathic Medicine.
Survey of scholarly activity in medicine.
Request the use of the Pass-No Grade (P-N) system.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
Effective Summer 2020

DEPARTMENT OF PA MEDICINE

- PA 832 Microbiology
Fall of every year. 2(1-2) Interdepartmental with Microbiology and Molecular Genetics. R: Open to students in the Department of PA Medicine.
Basic principles of microbiology and their relationship to disease in humans.
Request the use of the Pass-No Grade (P-N) system.
Effective Spring 2021

DEPARTMENT OF PHYSICS AND ASTRONOMY

- PHY 173 Studio Physics for Scientists and Engineers I
Fall of every year. Spring of every year. 5(4-2) P: (MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently) Not open to students with credit in LB 273 or PHY 183 or PHY 183B or PHY 191 or PHY 193H or PHY 221 or PHY 231 or PHY 231c or PHY 233b or PHY 241.
Basic principles of mechanics, development of scientific skills and problem-solving through integrated physics laboratory and discussion.
Effective Fall 2020

- PHY 174 Studio Physics for Scientists and Engineers II
Fall of every year. Spring of every year. 5(4-2) P: {(PHY 173 or LB 273) or (PHY 183 and PHY 191) or (PHY 183B and PHY 191) or (PHY 193H and PHY 191)} and {(MTH 133 or concurrently) or (MTH 153H or concurrently) or (LB 119 or concurrently)} Not open to students with credit in LB 274 or PHY 184 or PHY 184B or PHY 192 or PHY 222 or PHY 232 or PHY 232c or PHY 234b or PHY 242 or PHY 294H.
Basic principles of electricity and magnetism, development of scientific skills and problem-solving through integrated physics laboratory and discussion.
Effective Fall 2020
- PHY 221 Studio Physics for Life Scientists I
Fall of every year. Spring of every year. 4(3-2) P: (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently) Not open to students with credit in LB 273 or PHY 173 or PHY 183 or PHY 183B or PHY 193H or PHY 231 or PHY 231C or PHY 233B or PHY 241 or PHY 251.
Basic principles of mechanics including applications to biological systems, development of scientific skills and problem-solving through integrated physics laboratory and discussion.
Effective Fall 2020
- PHY 222 Studio Physics for Life Scientists II
Fall of every year. Spring of every year. 4(3-2) P: {(PHY 221 or LB 273) or (PHY 231 and PHY 251) or (PHY 231C and PHY 251) or (PHY 183 and PHY 191) or (PHY 193H and PHY 191)} and (MTH 124 or MTH 132 or MTH 152H or LB 118) Not open to students with credit in LB 274 or PHY 174 or PHY 184 or PHY 184b or PHY 192 or PHY 232 or PHY 232c or PHY 234b or PHY 242 or PHY 252.
Basic principles of electricity and magnetism including applications to biological systems, development of scientific skills and problem-solving through integrated physics laboratory and discussion.
Effective Fall 2020

DEPARTMENT OF TEACHER EDUCATION

- TE 100 Introduction to Early Childhood and Elementary Education
Fall of every year. Spring of every year. Summer of every year. 1(1-0)
Teaching practices and child development across grades PK-6. Understanding educational experiences, interests, abilities, and demands of the education profession.
Effective Fall 2020
- TE 101 Social Foundations of Justice and Equity in Education
Fall of every year. Spring of every year. 3(3-1) Not open to students with credit in TE 250.
Understanding self, schools, and society; emphasizing racial justice, equity, and social identity markers.
Effective Fall 2020
- TE 102 Pedagogy and Politics of Justice and Equity in Education
Spring of every year. 3(3-1) P: TE 101 RB: Completion of ethnic studies course, or concurrent.
Understanding self, schools, and society; emphasizing racial justice, equity in education, pedagogy, and politics.
Effective Fall 2020
- TE 330 Science Curriculum for Young Learners (PK-3)
Spring of every year. 3(3-0) RB: Completion of an ISB and ISB laboratory or ISP and ISP laboratory course. R: Open to students in the elementary teacher certification program (admitted). C: TE 372 concurrently.
Science curriculum standards for grades PK-3. Instructional materials and approaches for supporting science learning.
Effective Fall 2022

- TE 332 Science Curriculum for Upper Elementary Learners (3-6)
Spring of every year. 3(3-0) P: ISE 301 RB: Completion of ISB, ISP and ISB/ISP laboratory courses
R: Open to students in the elementary teacher certification program (admitted). C: TE 372
concurrently.
 Science curriculum standards for grades 3-6. Instructional materials and approaches for
 supporting science learning.
 Effective Fall 2022
- TE 333 Social Studies for Young Learners (PK-6)
Fall of every year. 3(3-0) RB: Completion of Tier I Writing Requirement and Completion of ISS
requirements. Completion of HST 301 OR HST 302 for candidates for 3-6 grade band. R: Open to
students in the elementary teacher certification program (admitted). C: TE 371 concurrently.
 History, geography, civics and government, economics, public discourse, decision-
 making, and citizen involvement; emphasizing PK-3 social studies content, including
 Michigan, United States, and Global Studies.
 Effective Fall 2022
- TE 341 Teaching and Learning of (Bi)Multilingual Learners
Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement R:
Open to students in the elementary teacher certification program (admitted).
 Social and psychological language theoretical perspectives, principles, and fundamental
 approaches for the teaching and learning of (bi)multilingual learners. Historical
 background, current policies, sociocultural dimensions, and classroom implications of
 (bi)multilingualism.
 Effective Fall 2022
- TE 371 Justice and Equity Seminar I
Fall of every year. 1(1-0) P: TE 102 R: Open to students in the elementary teacher certification
program (admitted) or in Secondary Teacher Certification Program (Admitted)..
 Application of equity and justice principles in co-occurring course- and/or field-based work.
 Effective Fall 2022
- TE 372 Justice and Equity Seminar II
Spring of every year. 1(1-0) P: TE 371 R: Open to students in the elementary teacher certification
program (admitted) or in Secondary Teacher Certification Program (Admitted)..
 Application of equity and justice principles in co-occurring course- and/or field-based work.
 Effective Fall 2022
- TE 405A Teaching Literacy to Diverse Learners I (PK-3)
Fall of every year. 3(3-2) P: TE 301 R: Open to students in the elementary teacher certification
program (admitted). C: TE 471 concurrently and TE 403 concurrently and TE 406A concurrently.
 Teaching language and literacy to diverse learners in early childhood Literacy learning
 environments. Literacy curriculum design and assessment. Culturally responsive
 practices in literacy. Teaching motivation and engagement, print concepts, phonological
 awareness, phonics, spelling, vocabulary, handwriting, comprehension, composition,
 speaking and listening in early childhood classrooms.
 Effective Fall 2023
- TE 405B Teaching Literacy to Diverse Learners II (PK-3)
Spring of every year. 3(3-2) P: TE 405A and TE 406A R: Open to students in the elementary
teacher certification program (admitted). C: TE 472 concurrently and TE 404 concurrently and
TE 406B concurrently.
 Teaching language and literacy to diverse learners in the early elementary grades.
 Literacy learning environments. Literacy curriculum design and assessment. Culturally
 responsive practices in literacy. Teaching motivation and engagement, phonics, spelling,
 word recognition, morphology, syntax, reading fluency, vocabulary, handwriting,
 comprehension, composition, speaking and listening in early elementary grades
 classrooms.
 Effective Fall 2023

- TE 406A Teaching Mathematics to Diverse Learners I (PK-3)
Fall of every year. 3(3-2) P: MTH 202 R: Open to students in the elementary teacher certification program (admitted). C: TE 471 concurrently and TE 403 concurrently and TE 405A concurrently.
Building mathematical relationships with diverse learners in grades PK-3. Planning mathematics lessons. Designing and using formative and summative assessment in mathematics. Choosing representations, eliciting children's thinking, and implementing tasks to develop children's understanding of counting, whole number, and operations.
Effective Fall 2023
- TE 406B Teaching Mathematics to Diverse Learners II (PK-3)
Spring of every year. 3(3-2) P: TE 405A and TE 406A R: Open to students in the elementary teacher certification program (admitted). C: TE 472 concurrently and TE 404 concurrently and TE 405B concurrently.
Building positive mathematical identities in diverse learners in grades PK-3. Planning series of mathematics lessons. Pedagogical practices for small- and whole-group activities. Choosing representations, eliciting children's thinking, and implementing tasks to develop children's understanding of attribution and fractions.
Effective Fall 2023
- TE 471 Justice and Equity Seminar III
Fall of every year. 1(1-0) P: TE 372 R: Open to students in the elementary teacher certification program (admitted) or in Secondary Teacher Certification Program (Admitted)..
Application of equity and justice principles in co-occurring course- and/or field-based work.
Effective Fall 2022
- TE 472 Justice and Equity Seminar IV
Spring of every year. 1(1-0) P: TE 471 R: Open to students in the elementary teacher certification program (admitted) or in Secondary Teacher Certification Program (Admitted)..
Application of equity and justice principles in co-occurring course- and/or field-based work.
Effective Fall 2022
- TE 503 Internship in Teaching Diverse Learners in Additional Endorsement Areas
Fall of every year. Spring of every year. Summer of every year. 1(1-4) A student may earn a maximum of 5 credits in all enrollments for this course. P: TE 409 RB: All other courses in the additional endorsement program should be completed prior to enrollment in TE 503. R: Open to students in the Teacher Certification Internship Year Studies Program.
Directed and evaluated internship in heterogeneous classrooms in an additional teaching endorsement area. Teaching worthwhile content to students with varied learning needs. Theoretical and field-based explorations of common teaching dilemmas.
Request the use of the Pass-No Grade (P-N) system.
Effective Spring 2021
- TE 850 Critical Reading for Children and Adolescents
Fall of even years. 3(3-0)
REINSTATEMENT Teaching and learning of critical and aesthetic responses to literature for K-12 students.
Effective Fall 2020
- TE 920 Social Analysis of Educational Policy
Spring of every year. 3(3-0)
REINSTATEMENT Social science perspectives on factors outside and inside school systems which shape policy and influence both the nature of policy problems and the form of educational solutions.
Effective Spring 2020

PART III – COURSE CHANGES

DEPARTMENT OF ANTHROPOLOGY

- ANP 462 Frontiers and Colonization in Historical Archaeology
Spring of even years. 3(3-0) P: ANP 203
Cultural dynamics and historical archaeological research in frontier and colonizing situations. European expansion in North America.
~~DELETED COURSE~~
Effective Spring 2020

COLLEGE OF COMMUNICATION ARTS AND SCIENCES

- CAS 116 Media Sketching and Graphics
Fall of every year. Spring of every year. 3(2-2) ~~R: Open to undergraduate students in the College of Communication Arts and Sciences.~~
From sketching to final application in real and conceptual imagery using traditional and digital methods.
~~Effective Fall 2017~~ Effective Spring 2021
- CAS 117 Games and Interactivity
Fall of every year. Spring of every year. 3(2-2) ~~R: Open to undergraduate students in the College of Communication Arts and Sciences.~~
Development of responsive media and iterative design from physical games to modern interactive software.
~~Effective Fall 2017~~ Effective Fall 2019

DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS

- CSD 232 Descriptive Phonetics
~~Fall of every year.~~ Spring of every year. ~~Summer of every year. 2(2-0)~~ 3(3-0)
Principles of speech production. Transcription of speech using the International Phonetic Alphabet.
SA: ASC 232
~~Effective Fall 2015~~ Effective Spring 2021

DEPARTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE, AND ENGINEERING

- CMSE 201 ~~Introduction to Computational Modeling and Data Analysis~~
Computational Modeling and Data Analysis I
Fall of every year. Spring of every year. 4(4-0) P: MTH 124 or MTH 132 or MTH 152H or LB 118
Computational modeling using a wide variety of applications examples. Algorithmic thinking, dataset manipulation, model building, data visualization, and numerical methods all implemented as programs.
SA: NSC 204
~~Effective Fall 2019~~ Effective Fall 2020
- CMSE 202 ~~Computational Modeling Tools and Techniques~~
Computational Modeling and Data Analysis II
Fall of every year. Spring of every year. 4(4-0) P: CMSE 201
~~Continuation of introduction to computational modeling focusing on standard methods and tools used for modeling and data analysis. Topics may include statistical analysis, symbolic math, linear algebra, simulation techniques, data mining.~~ Standard methods and tools for computational modeling and data analysis using simulation techniques, data mining, and machine learning.
SA: NSC 205
~~Effective Fall 2019~~ Effective Fall 2020

- CMSE 410 Bioinformatics and Computational Biology
Spring of every year. 3(2-2) Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics and 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) ~~Not open to students with credit in CSE 415.~~
Computational approaches in modern biology with a focus on applications in genomics, systems biology, evolution, and structural biology.
~~Effective Fall 2019~~ Effective Fall 2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- CSE 102 Algorithmic Thinking and Programming
Fall of every year. Spring of every year. Summer of every year. ~~3(1-4)~~ 3(2-2) P: (MTH 103 or MTH 103B or MTH 116 or MTH 124 or MTH 132 or MTH 152H or LB 118) or designated score on Mathematics Placement test Not open to students with credit in CSE 231.
~~The fundamentals of computing, algorithms and programming, using a high-level language such as Python. Integrating programs with other applications.~~ Fundamentals of computing, algorithms and programming, using a high-level language such as Python.
~~Effective Fall 2019~~ Effective Fall 2020
- CSE 201 Fundamentals of Information Technology
Fall of every year. Spring of every year. 3(3-0) ~~P: (CSE 101 or CSE 131) and (MTH 103 or MTH 116 or MTH 124 or MTH 132 or MTH 152H or LB 118)~~ P: (CSE 102 or CSE 220 or CSE 231) and (MTH 103 or MTH 103B or MTH 116 or MTH 124 or MTH 132 or MTH 152H or LB 118) RB: high school algebra; literacy in web and computer tools, such as editor and browser.
~~Digital representation of objects such as numbers, signals, and 3-dimensional shapes. Algorithms that operate on digital objects. Computer communications and the Internet. Computer security and web services.~~ Fundamentals of applied computing and computational thinking.
SA: CSE 240
~~Effective Spring 2014~~ Effective Fall 2020
- CSE 331 Algorithms and Data Structures
Fall of every year. Spring of every year. 3(3-0) P: (CSE 232) and (CSE 260 or CMSE 202) ~~R: Open to students in the Department of Computer Science and Engineering or in the Computer Engineering Major or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major and open to juniors or seniors in the College of Engineering.~~ R: Open to students in the Department of Computer Science and Engineering or in the Computer Engineering Major or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Data Science Major and open to juniors or seniors in the College of Engineering.
~~Linear data structures, trees, graphs and algorithms which operate on them. Fundamental algorithms for searching, sorting, string matching, graph problems. Design and analysis of algorithms.~~ Design, analysis, and application of fundamental algorithms and data structures in computer science.
~~Effective Fall 2019~~ Effective Fall 2020
- CSE 402 Biometrics and Pattern Recognition
Fall of every year. 3(3-0) ~~P: (CSE 331) and (STT 351 or STT 380 or STT 430 or STT 441)~~ P: (CSE 331) and (STT 351 or STT 380 or STT 430 or STT 441) and MTH 314 and (MTH 234 or MTH 254H or LB 220) ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Data Science Major.
Automated techniques used for feature extraction and pattern matching focusing on face, fingerprint and iris recognition.
~~Effective Fall 2019~~ Effective Fall 2021

- CSE 410 Operating Systems
Fall of every year. 3(3-0) P: (CSE 232 and CSE 260) and CSE 325 ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Computer Science Disciplinary Teaching Minor.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Principles and evolution of operating systems. Process and processor management. Concurrent processes and threads. Primary and secondary storage management. Case studies of modern operating systems.~~ Theory and application of modern computer operating systems.
SA: CPS 410
~~Effective Fall 2019~~ Effective Fall 2020
- CSE 415 Introduction to Parallel Computing
Spring of every year. 3(3-0) ~~P: CSE 320 and CSE 331~~ P: (CSE 320 or ECE 331) and (MTH 314 or ECE 280) and CSE 331 ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Data Science Major. Not open to students with credit in CMSE 401.
~~Core principles and techniques of parallel computing including architectures, programming models, and algorithm design. Performance analysis and optimization. Use of parallel computers.~~ Principles and techniques of parallel computing including architectures, programming models, and algorithm design.
~~Effective Fall 2019~~ Effective Fall 2021
- CSE 420 Computer Architecture
~~Spring of every year.~~ Spring of odd years. 3(3-0) ~~P: (CSE 232 and CSE 260) and (CSE 320 or ECE 331)~~ P: (CSE 232 and CSE 260) and CSE 325 R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Computer Science Disciplinary Teaching Minor.
~~Organization and architecture of computer systems. Arithmetic Logic Unit and control unit implementations. Hardwired and microprogrammed control. Pipelined processors, data and branch hazards. Memory hierarchy and storage devices. Input-output and peripheral devices. Advanced architectures.~~ Fundamental organization and architecture of computer systems.
SA: CPS 420
~~Effective Fall 2017~~ Effective Fall 2020
- CSE 422 Computer Networks
Fall of every year. Spring of every year. 3(3-0) P: (STT 351 or ECE 280 or STT 430 or STT 441) and CSE 325 ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Computer network architectures and models. Physical media and signaling. Data link protocols. Medium access control. Routing and IP. Transport services including TCP/UDP. Network applications. Local area and wide-area networks.~~ Computer network architectures and protocols.
SA: CPS 422
~~Effective Fall 2019~~ Effective Fall 2020

- CSE 425 Introduction to Computer Security
Spring of every year. 3(3-0) ~~P: CSE 422 or concurrently P: (CSE 422 or concurrently) or (ECE 442 or concurrently) R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Theory and practice of security engineering. Security protocols. Cryptography and cryptanalysis. Smartcards. Network security and intrusion detection. Common system attacks.~~ Theory and practice of computer security engineering.
~~Effective Fall 2017~~ Effective Fall 2020
- CSE 429 Interdisciplinary Topics in CyberSecurity
Spring of every year. 3(3-0) Interdepartmental with Criminal Justice. ~~P: CSE 401 or CSE 431 or CSE 231~~ P: CSE 102 or CSE 231 R: Open to juniors or seniors or graduate students.
Technical, legal, criminal, medical business, and communication aspects of CyberSecurity.
~~Effective Fall 2017~~ Effective Fall 2020
- CSE 435 Software Engineering
Fall of every year. 3(3-0) P: (CSE 331 and CSE 335) and completion of Tier I writing requirement ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Software lifecycle including specification, design, coding, testing, and verification of a software product. Stepwise refinement and traceability. Software maintenance and documentation.~~ Software engineering methods for reliable, reusable, and dependable software.
~~Effective Fall 2017~~ Effective Fall 2020
- CSE 440 Introduction to Artificial Intelligence
Fall of every year. 3(3-0) ~~P: CSE 331~~ P: (CSE 331) and (MTH 314 or ECE 280) ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Major or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Computer Science Major or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Data Science Major.
~~Fundamental issues in intelligent systems. Knowledge representation and mechanisms of reasoning. Search and constraint satisfaction. Agents. Application areas of AI and current topics.~~ Fundamental algorithms and methods in intelligent systems and artificial intelligence.
SA: CPS 440
~~Effective Fall 2017~~ Effective Fall 2021
- CSE 450 Translation of Programming Languages
Fall of every year. 3(3-0) P: CSE 331 and (CSE 320 or ECE 331) ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Theory and practice of programming language translation. Languages, grammars and parsing. Lexical, syntactic and semantic analysis. Compile time error handling. Code optimization and code generation.~~ Theory and practice of programming language translation from languages and grammars to optimization and generation.
SA: CPS 450
~~Effective Fall 2017~~ Effective Fall 2020

- CSE 471 Media Processing and Multimedia Computing
Spring of every year. 3(3-0) ~~P: CSE 320 or CSE 331 or CSE 335~~ P: (CSE 320 or CSE 331 or CSE 335) and (MTH 314 or ECE 280) R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Basic operations for processing images, video, and audio. Devices for input and output. Data formats and compression. Tools for processing images and sound. Multimedia authoring tools. Applications. Theory and practice for manipulation of digital images, video, and audio in computer applications.~~
Effective Fall 2017 Effective Fall 2021
- CSE 472 Computer Graphics
Spring of every year. 3(3-0) ~~P: CSE 331 or CSE 335~~ P: (CSE 331 or CSE 335) and (MTH 314 or ECE 280) R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.
~~Graphics systems. Two- and three-dimensional imaging geometry and transformations. Curve and surface design. Rendering, shading, color, and animation. Graphics programming. Theory and practice for the generation of two- and three-dimensional imagery.~~
SA: CPS 472
Effective Fall 2017 Effective Fall 2021
- CSE 480 Database Systems
Spring of every year. 3(3-0) ~~P: CSE 331 or CSE 335~~ R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major. ~~R: Open to juniors or seniors in the College of Engineering or in the Computer Science Minor or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Data Science Major.~~
~~Storage of and access to physical databases including indexing, hashing, and range accesses. Relational data models, database design principles, query languages, query optimization, transaction processing and recovery techniques. Object-oriented and distributed databases. Principles and technologies for database systems, algorithms, languages, and applications.~~
SA: CPS 480
Effective Fall 2017 Effective Fall 2020
- CSE 482 Big Data Analysis
Spring of every year. 3(3-0) ~~P: (CSE 331) and (STT 351 or STT 380 or STT 430 or STT 441)~~ P: (CSE 331) and (STT 351 or STT 380 or STT 430 or STT 441) and MTH 314 and (MTH 234 or MTH 254H or LB 220) ~~R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major.~~ R: Open to juniors or seniors in the College of Engineering or in the Lyman Briggs Computer Science Coordinate Major or in the Lyman Briggs Computer Science Major or in the Data Science Major.
~~Data collection, storage, and preprocessing, and analysis techniques. Programming for large-scale data analysis. Case studies and applications. Principles and techniques for large-scale data analysis and applications.~~
Effective Fall 2019 Effective Fall 2021
- CSE 820 Advanced Computer Architecture
~~Fall of every year. Fall of even years.~~ Spring of every year. 3(3-0) Interdepartmental with Electrical and Computer Engineering. ~~RB: CSE 410 and CSE 420~~ RB: CSE 325 and CSE 420 ~~R: Open only to Computer Science or Electrical Engineering majors.~~ R: Open to graduate students in the Department of Computer Science and Engineering or in the Department of Electrical and Computer Engineering.
~~Instruction set architecture. Pipelining, vector processors, cache memory, high-bandwidth memory design, virtual memory, input and output. Benchmarking techniques. New developments related to single-CPU systems. Advanced concepts in the organization and architecture of modern computer systems.~~
SA: CPS 820
~~Effective Summer 1999~~ Effective Spring 2020

DEPARTMENT OF COUNSELING, EDUCATIONAL PSYCHOLOGY, AND SPECIAL EDUCATION

- CEP 452 ~~Assistive Technology for Students with Learning Disabilities~~
Assistive Technology for Students with Disabilities
Fall of every year. ~~3(4-2)~~ 3(3-0) P: CEP 240 R: Open to students in the Special Education-Learning Disabilities Major.
~~Assistive Technology (AT) for advancing educational outcomes for K-12 students with learning disabilities; applications of technology to compensate for disabilities and improve educational, social, and behavioral competences. Assistive technology for advancing educational outcomes in PK-12 students with disabilities; applications of technology to compensate for disabilities and improve educational, social, and behavioral competences.~~
~~Effective Fall 2018~~ Effective Fall 2020

DEPARTMENT OF ENGLISH

- FLM 434 Advanced Screenwriting (W)
Fall of every year. 3(3-1) Interdepartmental with English. ~~P: ((FLM 230 or FLM 334) or approval of department) and completion of Tier I writing requirement~~ P: (FLM 334 or approval of department) and completion of Tier I writing requirement
Advanced workshop in writing screenplays. Reading and analysis of published screenplays. Attention to film production.
SA: ENG 434
~~Effective Spring 2015~~ Effective Spring 2020

DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION

- HNF 377 Applied Community Nutrition
Fall of every year. ~~4(3-2)~~ 3(3-0) P: HNF 250 or HNF 320 R: Open to juniors or seniors in the Dietetics Major or in the Nutritional Sciences Major or in the Lyman Briggs Nutritional Sciences Coordinate Major.
~~Skill development in nutritional assessment including dietary, anthropometric, clinical, biochemical and ecological assessment. Skills necessary for a community nutrition practitioner including community needs assessment and relevant related programs. Health policy, advocacy, and education evaluation and development.~~
~~Effective Fall 2016~~ Effective Fall 2020
- HNF 440 Foodservice Operations
Fall of every year. 3(3-0) ~~P: HNF 150~~ P: HNF 150 and (HNF 300 or concurrently) R: Open to juniors or seniors in the Dietetics Major.
Principles, processes and control strategies in foodservice operations. Menu planning, procurement, and on-premise storage and issuance. Purchasing, ethics, production, safety and sanitation.
~~Effective Fall 2017~~ Effective Fall 2020

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

- GEO 408 ~~Soil Geomorphology Field Study~~
Soil Geomorphology
Fall of odd years. ~~4(2-4)~~ 4(3-2) ~~P: CSS 210 or GEO 306 or GLG 201 or GLG 412 or GEO 206~~ P: CSS 210 or GEO 306 or GLG 201 or GEO 206 or ISP 203A or ISP 203B or ISP 203L or approval of department ~~R: Not open to freshmen or sophomores.~~ R: Not open to freshmen.
~~Common geographic relationships among soils, landforms, and vegetation in lower Michigan. Description, analysis, and genesis of soils and landscapes. Surficial processes. Soil formation and its relationship to landforms and landscapes. Common geographic relationships among soils, landforms, and vegetation. Description, analysis, and genesis of soils, surficial processes and landscapes.~~
~~Effective Fall 2017~~ Effective Fall 2020

GEO 826 ~~Geocomputation~~
Geographic Object-Based Image Analysis
~~Fall of every year. Spring of every year. 3(3-0) A student may earn a maximum of 0 credits in all enrollments for this course. P: GEO 221 or GEO 324 or approval of department RB: GEO 424~~
Research on topics in cartography, geographic information systems, and remote sensing. Remote sensing data acquisition, analytical workflow design, and outcome communication. Vegetation, urban, and agricultural applications. Mathematical and visual approaches to data extraction.
~~Effective Fall 2017~~ Effective Spring 2021

GEO 827 ~~Digital Image Processing and Analysis~~
Theory and Practice of Terrestrial Remote Sensing
~~Fall of every year. 4(2-4) 3(3-0) P: GEO 424 RB: GEO 324 or GEO 424~~
Use of computer to classify and enhance satellite images and to extract information from them. Combining images from different sources. Accuracy assessment of resulting information. Theory, algorithms, and computational approaches to generate and assess derived satellite products for long-term Earth system monitoring, with an emphasis on estimating biophysical and geophysical land surface variables.
~~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 2017~~ Effective Fall 2020

GEO 837 ~~Remote Sensing of the Biosphere~~
Applications of Terrestrial Remote Sensing
~~Fall of even years. Spring of odd years. 3(3-0) P: GEO 424 or approval of department~~
Remote sensing for environmental and global change research. Advanced image interpretation and applications with emphasis on independent research projects. Remote sensing for environmental and regional land cover change research. Advanced image interpretation; applications with emphasis on independent research projects.
~~Effective Fall 2017~~ Effective Fall 2020

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES

HDFS 447 Management of Human Service Programs
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HDFS 270 and (HDFS 484 or concurrently) P: HDFS 270 or SW 200 R: Open to students in the Department of Human Development and Family Studies.
Analysis of family and community service programs and organizations. Effective management and leadership processes. Programs and organizations from an ecological perspective.
SA: FCE 447
~~Effective Summer 2014~~ Effective Fall 2020

MSU COLLEGE OF LAW

LAW 629C ~~Journal of Animal and Natural Resources Law~~
Animal and Natural Resource Law Review
Fall of every year. Spring of every year. Summer of every year. 0 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: (LAW 530D or LAW 530E or LAW 530N or LAW 530Q) and LAW 530J R: Open to Law students or master's of law students or law lifelong students or law non degree students.
Preparation of publications in animal law and natural resource law.
Request the use of the Pass-Fail Grade (P-F) system.
~~Effective Spring 2018~~ Effective Summer 2020

DEPARTMENT OF LINGUISTICS AND GERMANIC, SLAVIC, ASIAN AND AFRICAN LANGUAGES

- GRM 101 Elementary German I
Fall of every year. Spring of every year. ~~4(4-1)~~ 3(3-0) RB: No previous experience in German or designated score on German Placement Test.
German language, civilization, and culture for beginning students. Work on all language skills with emphasis on speaking.
~~Effective Spring 2015~~ Effective Summer 2020
- GRM 102 Elementary German II
Fall of every year. Spring of every year. ~~4(4-1)~~ 3(3-0) P: (GRM 101) or designated score on German Placement test
Further study of German language, civilization, and culture for beginning students. Continued work on all language skills with emphasis on speaking.
~~Effective Spring 2015~~ Effective Summer 2020
- GRM 201 Second-Year German I
Fall of every year. Spring of every year. ~~4(4-0)~~ 3(3-0) ~~P: (GRM 102) or designated score on German placement test.~~ P: (GRM 102) or designated score on German Placement test R: Approval of department.
Intermediate-level development of all language skills. Reading, viewing, and discussion of a broad range of cultural materials from the German-speaking world.
~~Effective Spring 2015~~ Effective Summer 2020
- GRM 202 Second-Year German II
Fall of every year. Spring of every year. ~~4(4-0)~~ 3(3-0) ~~P: (GRM 201) or designated score on German placement test.~~ P: (GRM 201) or designated score on German Placement test
Further intermediate-level work on all language skills, based on topics such as popular music, literature, film, current events, and culture. Transition course to advanced work in German studies.
~~Effective Spring 2015~~ Effective Summer 2020
- GRM 301 ~~Third-Year German I~~
Third-Year German: Global Germany
Fall of every year. Spring of every year. 3(3-0) ~~P: (GRM 202) or designated score on German placement test.~~ P: (GRM 202) or designated score on German Placement test RB: Two years of college German, equivalent placement test score, or four years or more of K-12 German.
~~Advanced speaking, listening comprehension, reading, and writing skills. Intensive work with authentic texts dealing with contemporary issues in the German-speaking world. Selected review of grammar and syntax.~~ Advanced speaking, listening comprehension, reading, and writing skills. Intensive work with authentic texts dealing with contemporary issues in the German-speaking world. Selected review of grammar and syntax. Focus on the creation of German identity through migration, immigration, and exile.
~~Effective Spring 2015~~ Effective Spring 2020
- GRM 302 ~~Third-Year German II~~
Third-Year German: Nature in Germany
Fall of every year. Spring of every year. 3(3-0) ~~P: GRM 202~~ P: (GRM 202) or designated score on German Placement test RB: Two years of college German, equivalent placement test score, or four years or more of K-12 German
~~Intensive work with original texts dealing with contemporary issues in the German-speaking world. Advanced speaking, listening comprehension, reading, and writing skills. Intensive work with authentic texts dealing with contemporary issues in the German-speaking world. Selected review of grammar and syntax. Focus on the natural world and our often unnatural technologies that interfere with our ecological order. Intensive work with texts and films dealing with forests, gardens, plants, natural explorers, pollution and atomic disaster.~~
Intensive work with original texts dealing with contemporary issues in the German-speaking world. Advanced speaking, listening comprehension, reading, and writing skills. Intensive work with authentic texts dealing with contemporary issues in the German-speaking world. Selected review of grammar and syntax. Focus on the natural world and our often unnatural technologies that interfere with our ecological order. Intensive work with texts and films dealing with forests, gardens, plants, natural explorers, pollution and atomic disaster.
~~Effective Spring 2015~~ Effective Spring 2020

GRM 461 ~~Teaching German Language and Culture~~
Applied Linguistics for German Learners and Teachers
~~Fall of even years.~~ Spring of even years. 3(3-0) ~~P: GRM 302 P: GRM 301 or GRM 302 or GRM 303~~
~~or GRM 304 or GRM 311 or approval of department R: Open to students in the German~~
~~Secondary Teaching Major or in the German Elementary Teaching Major or in the German~~
~~Disciplinary Teaching Minor or in the German K-12 Teaching Major or in the German Studies~~
~~major.~~ C: GRM 460 concurrently.
Didactic treatment of linguistic and cultural material introduced in GRM 460. Overview of
applied linguistic topics relevant for both students of German and future teachers of
German. Issues of contemporary language use, the connection between culture and
language. Overview of second language acquisition principles. Introduction to effective
audioididactic or pedagogical techniques for language and culture learning.
~~Effective Spring 2015~~ Effective Summer 2020

DEPARTMENT OF MANAGEMENT

MGT 315 ~~Managing Human Resources and Organizational Behavior~~
Fall of every year. Spring of every year. Summer of every year. 3(3-0) RB: Programs for which
MGT 315 is a catalog-listed requirement. ~~R: Open to juniors or seniors in the Accounting major or~~
~~in the Finance Major or in the Marketing Major or in the Supply Chain Management Major or in the~~
~~Business - Admitted major or in the Human Resource Management Major or in the Management~~
~~Major and not open to students in the School of Hospitality Business.~~ R: Open to juniors or seniors
in the Accounting major or in the Finance Major or in the Marketing Major or in the Supply Chain
Management Major or in the Business - Admitted major or in the Human Resource Management
Major or in the Management Major.
Formulation and administration of human resource policies in the business enterprise.
Personnel planning, job analysis and evaluation, staffing. Compensation and labor
relations. Employee safety. Training, development, and performance appraisal. Issues of
diversity and ethics.
SA: MGT 310
~~Effective Spring 2017~~ Effective Fall 2020

MGT 409 ~~Business Policy and Strategic Management~~
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: MKT 300 and SCM 303
and FI 311 ~~R: Open to seniors in the Eli Broad College of Business and The Eli Broad Graduate~~
~~School of Management and not open to undergraduate students in the School of Hospitality~~
~~Business.~~ R: Open to seniors in the Accounting major or in the Finance Major or in the Marketing
Major or in the Supply Chain Management Major or in the Human Resource Management Major or
in the Management Major.
Techniques for building and maintaining consistent and effective policy and strategy.
Major functions within a firm. Strategic integration, ethics, and international competition.
~~Effective Summer 2013~~ Effective Fall 2020

MGT 474 ~~Negotiations~~
Fall of every year. Spring of every year. 2(2-0) Interdepartmental with Supply Chain Management.
R: Open to juniors or seniors in the Supply Chain Management Major or approval of department.
Not open to students with credit in MGT 475.
Strategic negotiation, negotiation preparation, buyer-supplier relationship assessment,
international negotiations, and negotiation simulation.
SA: SCM 474
~~Effective Summer 2019~~ Effective Fall 2020

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. 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 2013~~ Effective Fall 2020

DEPARTMENT OF MARKETING

- MKT 393 Introduction to International Business
Fall of every year. Spring of every year. Summer of every year. ~~3(3-0)~~ 1 to 3 credits.
Interdepartmental with Accounting and Finance and General Business and Business Law and Hospitality Business and Management and Supply Chain Management. R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the School of Hospitality Business.
Introduction to the context of international business delivered on-site in foreign settings. Fundamental concepts and principles of globalization such as multinational corporations, foreign markets and economies, internal and external market transactions, international law, cultural influences, and multinational business strategies.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.
~~Effective Spring 2013~~ Effective Spring 2020

DEPARTMENT OF MECHANICAL ENGINEERING

- ME 836 Experimental Methods in Fluid Mechanics
Fall of even years. ~~3(4-4)~~ 3(2-2)
Modern techniques of fluid mechanics measurement and data analysis. Pressure, temperature and velocity measurement techniques. Optical diagnostics.
~~Effective Summer 1997~~ Effective Fall 2020

COLLEGE OF NURSING

- NUR 205 Introduction to Professional Nursing
Fall of every year. Spring of every year. Summer of every year. 4(2-6) ~~P: CEM 143 and PSY 101 and HDFS 225~~ P: (PSY 101) and (HDFS 225 or PSY 238) RB: Not open to RN-BSN students. R: Open to students in the Nursing Major.
Principles and practices of holistic nursing care that allow for analysis of a comprehensive collection of patient data to provide basic clinical care to the adult population.
~~Effective Fall 2019~~ Effective Fall 2020
- NUR 333 Health Promotion
Fall of every year. Spring of every year. Summer of every year. 4(3-3) ~~P: HDFS 225 and HNF 150 and NUR 205 and NUR 301 and PHM 350 and MMG 201 and MMG 302~~ P: (HNF 150 and PHM 350 and NUR 205 and NUR 301 and MMG 201 and MMG 302) and (HDFS 225 or PSY 238)
Principles and practices of health promotion/risk reduction through understanding and developing health capacity for populations, families, and individuals.
~~Effective Fall 2019~~ Effective Fall 2020
- NUR 465 Leadership Immersion
Fall of every year. Spring of every year. ~~Summer of every year.~~ 4(3-1) 4(3-2) ~~P: NUR 355 and NUR 336~~ RB: Registered Nurse admitted to the RN-BSN program. ~~R: Open to students in the Nursing Major.~~ R: Open to undergraduate students in the College of Nursing. Not open to students with credit in NUR 460. C: NUR 455 concurrently.
~~Integration and application of theories, principles and practices of nursing leadership and management into contemporary practice settings.~~ Integration and application of theories, principles and practices of nursing leadership and management
~~Effective Spring 2014~~ Effective Fall 2020

COLLEGE OF OSTEOPATHIC MEDICINE

- OST 558 Pediatrics III
Fall of every year. 1(1-0) R: Open to graduate students in the College of Osteopathic Medicine. Normal structure, function and pathologies of the behavioral, cardiovascular, hematopoietic and respiratory systems as they relate to the pediatric population. Ethical considerations in pediatrics.
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 3 semesters after the end of the semester of enrollment.
~~Effective Fall 2018~~ Effective Fall 2020
- OST 591 Medical Case Study Journal Review
Fall of every year. Spring of every year. Summer of every year. 1(2-0) A student may earn a maximum of 4 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Osteopathic Medicine.
~~Analysis and presentation of clinical case reports in the criteria required to identify case reports published in reputable journals containing clinically consistent basic science principles and biomedical concepts.~~ Analysis and presentation of published clinical case reports in the context of basic science principles and biomedical concepts.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2018~~ Effective Spring 2020

SCHOOL OF PACKAGING

- PKG 486 Packaging Senior Capstone (W)
Fall of every year. Spring of every year. 3(3-0) P: (PKG 485) and completion of Tier I writing requirement R: Open to undergraduate students in the Packaging Major.
Development of a team-based packaging design project serving specific product and market needs. In depth team report of feasibility, specifications, sourcing, marketing, value-chain economics, and sustainability.
~~DELETE COURSE~~
Effective Fall 2019

SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

- UP 494 Planning Practicum
Spring of every year. ~~4(0-8)~~ 6(0-12) P: UP 314 and UP 365 and UP 454
Collection, analysis and synthesis of planning information for an established urban or regional area. Problem identification and alternative plan formulation. Formulation of comprehensive physical development policies and plans, implementation of programs.
SA: UP 494A, UP 494B
~~Effective Fall 2013~~ Effective Spring 2021

DEPARTMENT OF RADIOLOGY

- RAD 612 Interventional Radiology
Fall of every year. Spring of every year. Summer of every year. 3 to 12 credits. A student may earn a maximum of 24 credits in all enrollments for this course. ~~P: RAD 600~~ P: RAD 609 or RAD 610 R: Open to graduate-professional students in the College of Human Medicine or in the College of Osteopathic Medicine.
Fundamentals of radiation biology, diagnostic and therapeutic techniques, safety, and follow-up of interventional radiology procedures.
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 2018~~ Effective Spring 2020

SCHOOL OF SOCIAL WORK

- SW 440 Social Work Practice with Individuals, Families, and Groups(W)
Fall of every year. 3(3-0) P: (SW 340) and completion of Tier I writing requirement R: Open to juniors or seniors in the School of Social Work. ~~C: SW 494A concurrently.~~
Social work intervention with individuals, families, and small groups.
~~Effective Fall 2017~~ Effective Summer 2020
- SW 441 Social Work Practice with Task Groups, Organizations and Communities
Spring of every year. 3(3-0) P: SW 440 R: Open to juniors or seniors in the School of Social Work.
~~C: SW 494B concurrently.~~
Planning and social intervention with task groups, organizations and communities.
~~Effective Fall 2017~~ Effective Summer 2020
- SW 494A Social Work Field Education: Undergraduate Generalist Practice I
Fall of every year. 4(0-16) ~~P: SW 340 P: SW 340 and (SW 440 or concurrently)~~ R: Open to seniors in the School of Social Work. ~~C: SW 440 concurrently. C: SW 493A concurrently.~~
~~Professionally supervised generalist social work practice in approved community agencies and campus-based seminar. Integration and application of concepts in social work practice.~~ Professionally supervised generalist social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Fall 2019~~ Effective Summer 2020
- SW 494B Social Work Field Education: Undergraduate Generalist Practice II
Spring of every year. 4(0-16) ~~P: SW 494A P: SW 494A and (SW 441 or concurrently) and SW 493A~~
R: Open to seniors in the School of Social Work. ~~C: SW 441 concurrently. C: SW 493B concurrently.~~
~~Continuation of professionally supervised generalist social work practice in approved community agencies and campus-based seminar. Integration and application of concepts in social work practice. Focus on writing skills for professional practice and career options.~~ Continuation of professionally supervised generalist social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Spring 2020~~ Effective Fall 2020
- SW 840 Generalist Social Work Practice Methods I
Fall of every year. 3(3-0) ~~P: (SW 840 or concurrently) and (SW 820 or concurrently) P: SW 820 or concurrently~~ ~~R: Open to graduate students in the School of Social Work. R: Open to master's students in the School of Social Work or approval of school. Not open to students with credit in SW 842A or SW 842B. Not open to students with credit in SW 842B. C: SW 804A concurrently.~~
Ethical and philosophical basis for professional practice and accountability in engagement and assessment, across all client systems.
~~Effective Fall 2017~~ Effective Summer 2020
- SW 841 Generalist Social Work Practice: Methods II
Spring of every year. 3(3-0) P: SW 840 RB: SW 811 or concurrently ~~R: Open to graduate students in the School of Social Work. R: Open to master's students in the School of Social Work or approval of school.~~ Not open to students with credit in SW 842B. ~~C: SW 804B concurrently.~~
Implementation of models of social work practice for work with individuals, dyads, families, groups, and communities. Implementation of social work practice-research orientation across the life cycle.
~~Effective Fall 2017~~ Effective Summer 2020
- SW 842B Advanced Generalist Social Work Practice Methods
Summer of every year. 2(2-0) ~~RB: SW 842A R: Open only to graduate students in School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. Not open to students with credit in SW 840 or SW 841.
Selection, implementation, and evaluation of models of social work intervention.
~~Effective Summer 2006~~ Effective Summer 2020

- SW 850 Clinical Social Work Practice I
Fall of every year. 3(3-0) P: (SW 841 or SW 842B) and (SW 893B or SW 894B) ~~R: Open to master's students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~C: SW 804D concurrently.~~
Theoretical base of advanced clinical social work practice with individuals and groups.
Evidence-based and culturally sensitive intervention strategies and techniques.
Professional development and use of self to enhance clinical effectiveness.
~~Effective Fall 2017~~ Effective Summer 2020
- SW 851 Clinical Social Work Practice II
Spring of every year. 3(3-0) ~~P: SW 850 and SW 804D~~ P: SW 850 ~~R: Open to master's students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~C: SW 804E concurrently.~~
Theoretical base for clinical social work practice with couples and families. Culturally sensitive intervention strategies and techniques. Student self-reflection on family of origin to enhance clinical effectiveness.
~~Effective Spring 2018~~ Effective Summer 2020
- SW 865 Social Work Leadership in Organizations
Fall of every year. Lansing, Lansing, Lansing 3(3-0) ~~P: SW 841 or SW 842B~~ P: (SW 841 or SW 842B) and (SW 893B or SW 894B) ~~R: Open to master's students in the School of Social Work or approval of school.~~ Not open to students with credit in SW 863. ~~C: SW 804C concurrently.~~
Knowledge and skills to promote change in programs and organizations using adaptive leadership.
~~Effective Summer 2018~~ Effective Summer 2020
- SW 866 Social Work Leadership in Communities
Spring of every year. Lansing, Lansing, Lansing 3(3-0) P: SW 865 ~~R: Open to master's students in the School of Social Work or approval of school.~~ Not open to students with credit in SW 864. ~~C: SW 804I concurrently.~~
~~Advanced community practice knowledge for promoting social justice within communities. Assessing community assets and needs. Strategies for community building and organizing, focusing on community as a means of impacting social change and improving the quality of life in diverse, economically disadvantaged and/or historically disempowered communities and the organizations that serve them. Advanced community practice to promote social justice and assess community assets and needs.~~
~~Effective Summer 2018~~ Effective Summer 2020
- SW 893B Social Work Field Education: Graduate Advanced Generalist Practice
Summer of every year. 2(1-8) ~~P: SW 842B or concurrently~~ ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~Not open to students with credit in SW 894A or SW 894B.~~ Not open to students with credit in SW 894B. ~~C: SW 842B concurrently.~~
Professionally supervised foundations of social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2019~~ Effective Summer 2020
- SW 894A Social Work Field Education: Graduate Generalist Practice I
Fall of every year. 4(1-16) ~~P: SW 840 or concurrently~~ ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. Not open to students with credit in SW 893B. ~~C: SW 840 concurrently.~~
Professionally supervised foundations of social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2019~~ Effective Summer 2020

- SW 894B Social Work Field Education: Graduate Generalist Practice II
Spring of every year. 4(1-16) ~~P: SW 894A~~ P: SW 894A and (SW 841 or concurrently) ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. Not open to students with credit in SW 893B. ~~C: SW 841 concurrently.~~
Continuation of professionally supervised foundations of social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2019~~ Effective Spring 2020
- SW 894D Social Work Field Education: Clinical Practice I
Fall of every year. 4(1-16) ~~P: SW 893B or SW 894B~~ P: (SW 893B or SW 894B) and (SW 850 or concurrently) ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~C: SW 850 concurrently.~~
Professionally supervised clinical social work practice with individuals, dyads, families, and small groups in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2019~~ Effective Summer 2020
- SW 894E Social Work Field Education: Clinical Practice II
Spring of every year. 4(1-16) ~~P: SW 894D~~ P: SW 894D and (SW 851 or concurrently) ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~C: SW 851 concurrently.~~
Continuation of professionally supervised clinical social work practice with individuals, dyads, families and small groups in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2019~~ Effective Summer 2020
- SW 894G Social Work Field Education: Macro Practice I
Fall of every year. 4(1-16) ~~P: SW 893B or SW 894B~~ P: (SW 893B or SW 894B) and (SW 865 or concurrently) ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~C: SW 865 concurrently.~~
Professionally supervised organization and community social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~Effective Summer 2019~~ Effective Summer 2020
- SW 894I Social Work Field Education: Macro Practice II
Spring of every year. 4(1-16) ~~P: SW 894G~~ P: SW 894G and (SW 866 or concurrently) ~~R: Open to graduate students in the School of Social Work.~~ R: Open to master's students in the School of Social Work or approval of school. ~~C: SW 866 concurrently.~~
Continuation of professionally supervised organization and community social work practice in approved community agencies. Integration and application of concepts in social work practice.
Request the use of the Pass-No Grade (P-N) system.
~~SA: SW 894F~~
~~Effective Summer 2019~~ Effective Fall 2020

DEPARTMENT OF TEACHER EDUCATION

- TE 301 ~~Literacy, Learners, and Learning in Context – Elementary (W)~~
~~Children's Literacy Development (W)~~
Fall of every year. Spring of every year. Summer of every year. 3(2-4) ~~P: TE 150 and Completion of Tier I Writing Requirement and (TE 250 or CEP 240 or HDFS 212) P: (TE 150) and Completion of Tier I Writing Requirement R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted). R: Open to students in the elementary teacher certification program (admitted) and open to students in the elementary teacher certification program (admitted).~~
~~Language and literacy development in sociocultural context at the elementary level (K-8). Natural and socially constructed differences among learners. How to learn about a child. Ten components of literacy. Assessment. Reading or writing related disability. Children's development in motivation and engagement, phonological awareness, phonics, spelling, word recognition, morphology, syntax, reading fluency, handwriting, comprehension, composition, and speaking and listening. Formative assessment tools in and out of school.~~
~~Effective Fall 2014 Effective Fall 2023~~
- TE 403 ~~Teaching of Science to Diverse Learners – Elementary~~
~~Teaching Science to Diverse Learners - Elementary~~
Fall of every year. 3(3-2) ~~P: ((ISE 301 or ISE 320 or ISE 420) and completion of Tier I writing requirement) and TE 304 P: TE 330 or TE 332 R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted). R: Open to students in the elementary teacher certification program (admitted) and open to students in the elementary teacher certification program (admitted). C: TE 471 concurrently.~~
~~Teaching science to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Science subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities. Engaging diverse learners in grades PK-6 to make sense of the natural world. Lesson planning, formative assessment, discourse strategies, and resources for learning science. Supporting children's sense-making through engagement in scientific practices.~~
~~Effective Fall 2014 Effective Fall 2022~~
- TE 404 ~~Teaching of Social Studies to Diverse Learners – Elementary~~
~~Teaching Social Studies to Diverse Learners - Elementary (W)~~
Fall of every year. Spring of every year. 3(3-2) ~~P: (TE 301) and completion of Tier I writing requirement P: (TE 333 and TE 403) and completion of Tier I writing requirement R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted). R: Open to students in the elementary teacher certification program (admitted) and open to students in the elementary teacher certification program (admitted). C: TE 472 concurrently.~~
~~Teaching social studies to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Social studies subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities. Teaching social studies to diverse learners at the elementary level (PK-6). Inquiry into and construction of subject-specific meaning. Social studies subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities.~~
~~Effective Fall 2014 Effective Fall 2023~~

TE 405

~~Teaching of Language and Literacy to Diverse Learners – Elementary~~
Teaching Literacy to Diverse Learners (3-6)

~~Spring of every year. 3(3-2) P: (TE 403 and TE 404 and TE 349) and completion of Tier I writing requirement P: TE 301 and TE 403 and TE 406 R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).~~ R: Open to students in the elementary teacher certification program (admitted) and open to students in the elementary teacher certification program (admitted). C: TE 472 concurrently and TE 404 concurrently.

~~Teaching language and literacy to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Literacy subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities.~~ Teaching language and literacy to diverse learners in grades 3-6. Literacy learning environments. Culturally responsive practices in literacy. Literacy curriculum design and assessment. Teaching motivation and engagement, phonics, spelling, syntax, reading fluency, vocabulary, comprehension, composition, and speaking and listening in grades 3-6.

~~Effective Fall 2014~~ Effective Fall 2023

TE 406

~~Teaching of Mathematics to Diverse Learners – Elementary~~
Teaching Mathematics to Diverse Learners (3-6)

~~Fall of every year. Spring of every year. 3(3-2) P: (MTH 201 and MTH 202 and TE 403 and TE 404) and completion of Tier I writing requirement P: MTH 201 and MTH 202 R: Not open to freshmen or sophomores and open to students in the elementary teacher certification program (admitted).~~ R: Open to students in the elementary teacher certification program (admitted) and open to students in the elementary teacher certification program (admitted). C: TE 471 concurrently and TE 403 concurrently.

~~Teaching mathematics to diverse learners at the elementary level (K-8). Inquiry into and construction of subject-specific meaning. Mathematics subject matter adapted to learner diversity. Teachers' roles, including professional, intellectual, and sociopolitical responsibilities.~~ Building mathematical relationships with diverse learners in Grades 3-6. Choosing representations, eliciting children's thinking, and implementing tasks to develop children's understanding of whole numbers and operations and fractions, decimals, and operations. Teacher's roles, including professional, intellectual, and sociopolitical responsibilities.

~~Effective Fall 2014~~ Effective Fall 2023