# MICHIGAN STATE UNIVERSITY

### Report of

**THE UNIVERSITY COMMITTEE ON CURRICULUM**

**to the Faculty Senate February 16, 2021**

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

TO: Faculty Senate

MICHIGAN STATE UNIVERSITY

University Committee on Curriculum

February 16, 2021

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

February 16, 2021

TO: Faculty Senate

FROM: University Committee on Curriculum

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

# PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

## COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

1. Establish a **Graduate Certificate** in **Real Estate Development and Construction** in the School of Planning, Design and Construction. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its October 12, 2020 meeting.

### Background Information:

This Graduate Certificate Program trains a new generation of professionals to possess sustainable planning, design and construction knowledge, skills and abilities, specifically in Real Estate Development and Construction. The proposed program is linked to the School’s 2020 strategic plan. Our vision statement says “We collaborate to create sustainable and healthy built, natural and virtual environments.” Further, our mission statement states “We advance the knowledge, prepare innovative leaders, and support the practice of planning, design, and construction.” Therefore, supporting the practice of planning, design and construction can be further accomplished by the proposed Graduate Certificate Program.

Mid-career professionals particularly in the fields of urban planning, construction management, and real estate development have a pressing need for in-depth training in real estate development analysis, finance and practice, as well as real estate case studies. This Graduate Certificate Program will train individuals to be knowledgeable of these subjects with sustainability in mind.

MSU graduate students who are interested in adding real estate development knowledge and skill sets to their respective degrees are welcomed and encouraged. Our society and the general public will benefit from professionals who are equipped with sustainable thinking and understanding in planning, design and construction.

To our knowledge, no comparable training program in Real Estate Development and Construction currently exists at MSU. In Michigan, the Taubman College of the University of Michigan has a Real Estate Development Graduate Certificate Program, but it is offered on campus and requires a total of 17 credit hours. We are proposing a 3-course certificate (9 credit hours) offered online, which will be more manageable and appealing to mid-career professionals. The program will help MSU train capable professionals and students to be knowledgeable of the issues.

The School of Planning, Design and Construction have faculty members in the Construction Management Program, and Urban and Regional Planning Program who have research credentials and practical experiences in Real Estate Development and Construction.

Students who earn the certificate will: 1) comprehend the land development process; 2) synthesize information about market analysis, finance and practice of real estate development; and 3) examine the construction management and municipal government interaction process.

### Academic Programs Catalog Text:

The Graduate Certificate in Real Estate Development and Construction trains students to gain knowledge about real estate development and to integrate sustainable principles that shape our built environments for current and future generations. The program is available online only.

### Requirements for the Graduate Certificate in Real Estate Development and Construction

CREDITS

Students must complete 9 credits from the following:

|  |  |  |  |
| --- | --- | --- | --- |
| PDC | 853 | Real Estate Finance and Commercial Development | 3 |
| PDC | 858 | Land Use Planning and Housing | 3 |
| PDC | 859 | Construction Management and Real Estate Case Studies | 3 |

Effective Fall 2021.

1. Establish a **Graduate Certificate** in **Urban Resilient Redevelopment** in the School of Planning, Design and Construction. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its October 12, 2020 meeting.

### Background Information:

This Graduate Certificate Program trains a new generation of professionals to possess sustainable planning, design and construction knowledge, skills and abilities, specifically in Urban Resilient Redevelopment. The proposed program is linked to the School’s 2020 strategic plan. Our vision statement says “We collaborate to create sustainable and healthy built, natural and virtual environments.” Further, our mission statement states “We advance the knowledge, prepare innovative leaders, and support the practice of planning, design, and construction.” Therefore, supporting the practice of planning, design and construction can be further accomplished by the proposed Graduate Certificate Program.

Mid-career professionals particularly in the fields of urban planning, and real estate development have a pressing need for in-depth training in real estate development analysis, finance and practice, as well as rules and regulations for local redevelopment. The economic downturn during 2008-2009 that caused serious declines in large cities such as Detroit has prompted the need for urban redevelopment. This Graduate Certificate Program will train individuals to be knowledgeable of these subjects with sustainability in mind. MSU graduate students who are interested in adding urban resilient redevelopment knowledge and skill sets to their respective degrees are welcomed and encouraged. Our society and the general public will benefit from professionals who are equipped with sustainable thinking and understanding in planning, design and construction.

To our knowledge, no comparable training program in Urban Resilient Redevelopment currently exists at MSU. Struggling cities like Detroit need professionals who have such knowledge.

The School of Planning, Design and Construction has faculty members in the Construction Management Program, and Urban and Regional Planning Program who have research credentials and practical experiences in Resiliency and Urban Redevelopment. What we are proposing is a 3- course certificate (9 credit hours) that is offered online, more manageable, and appealing to mid- career professionals.

Students who earn the certificate will 1) understand how to sustainably approach the challenges present in redevelopment policy; 2) synthesize information about state and local redevelopment techniques and programs and how to implement them; and 3) apply knowledge learned from successful and challenging local re-development cases.

### Academic Programs Catalog Text:

The Graduate Certificate in Urban Resilient trains students to gain knowledge about urban resilient redevelopment and to integrate sustainable principles that shape our built environments for current and future generations. The program is available online only.

### Requirements for the Graduate Certificate in Urban Resilient Redevelopment

CREDITS

Students must complete 9 credits from the following:

|  |  |  |  |
| --- | --- | --- | --- |
| PDC | 803 | Advanced Domicology: Sustainable Built Environment | 3 |
| PDC | 858 | Land Use Planning and Housing | 3 |
| PDC | 878 | Redevelopment and the Climate Resilient City | 3 |

Effective Fall 2021.

## COLLEGE OF ARTS AND LETTERS

1. Establish a **Graduate Certificate** in **Arts and Cultural Management** in the College of Arts and Letters. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its November 9, 2020 meeting.

### Background Information:

Arts and Cultural Management has existed as a successful undergraduate minor since Fall 2013 and as a master’s program since Fall 2015. In 2018, arts and cultural management was combined at the master’s level with the existent museum studies program. At that time, the museum studies program consisted of a long-time minor and graduate certificate, which was converted to a transcriptable graduate certificate in 2015. With the two fields now in an overarching program, it makes logical sense to offer a Graduate Certificate in Arts and Cultural Management to align with the Museum Studies certificate offering.

The certificate will provide an opportunity for both working professionals and graduate students in other MSU programs with opportunities to improve employment opportunities in creative and artistic positions, but to expand their knowledge around their correlate fields through building skills in management and administration. Just as its sister certificate, Museum Studies, the Arts and Cultural Management graduate certificate can serve as a feeder program for the master’s degree, allowing working professionals to explore graduate study or choose to continue to a full master’s degree. This certificate fills a gap in graduate learning activities at MSU. Faculty from the Theatre department, and from other departments such as Music, have noted that students have asked for many years for such an option. All the requirements are already in place, there are no new courses needed or extra costs involved. The certificate will draw from the existing master’s level offerings.

### Academic Programs Catalog Text:

The Graduate Certificate in Arts and Cultural Management provides both working professionals and graduate students the opportunity to improve employment possibilities in creative and artistic positions while expanding their knowledge around related fields through building skills in management and administration.

### Requirements for the Graduate Certificate in Arts and Cultural Management

Students must complete 12 credits from the following:

* + 1. The following course (3 credits):

ACM 801 Introduction to Arts, Cultural Management,

CREDITS

2.

|  |  |  |  |
| --- | --- | --- | --- |
| One of | the follo | and Museum Studieswing courses (3 credits): | 3 |
| ACM | 868 | Non-Profit Law for Arts, Cultural Management, |  |
|  |  | and Museum Studies | 3 |
| ACM | 869 | Policy and Advocacy for Arts and Cultural |  |
| One of ACM | the follo 861 | Management wing courses (3 credits):Strategic Planning, Human Capital and Financial | 3 |
|  |  | Management for Arts, Cultural and |  |
|  |  | Museum Management | 3 |
| ACM | 862 | Public Communications in Arts, Cultural and |  |
|  |  | Museum Management | 3 |
| ACM | 863 | Event Management and Design for Arts and Culture | 3 |
| ACM | 864 | School and Community Education in Arts and |  |
|  |  | Cultural Management | 3 |
| ACM | 865 | Leadership Development for Arts, Cultural, |  |
|  |  | and Museum Management | 3 |
| ACM | 866 | Operations and Facilities Management in Arts |  |
|  |  | and Cultural Management | 3 |
| ACM | 867 | Development and Fundraising Theory and |  |
|  |  | Practice for Arts, Cultural and Museum |  |
|  |  | Management | 3 |
| ACM | 868 | Non-Profit Law for Arts, Cultural Management, |  |
|  |  | and Museum Studies | 3 |

3.

ACM 869 Policy and Advocacy for Arts and Cultural

Management 3

ACM 868 and ACM 869 may not be used to fulfil both requirement 2. and 3.

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

ACM 871 Internship in Arts and Cultural Management 3

ACM 872 Practicum in Arts and Cultural Management 3

In cases where an outside internship or professional practicum is not possible, a substitution may be made with advisor approval.

Effective Fall 2021.

* + 1. Establish a **Master of Arts** degree in **Nonprofit Leadership, Global Cultures, and Social Enterprise** in the Department of Religious Studies. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its November 9, 2020 meeting.

### Background Information:

The Nonprofit Leadership, Global Cultures, and Social Enterprise master’s program originated from faculty members in the Department of Religious Studies as a natural development of the existent Nonprofit Leadership undergraduate concentration in the bachelor’s degree. The proposed program complements the existing undergraduate course offerings and emphasis. It is unique in combining practical understanding of Nonprofits (501c3) organizations with a distinctive emphasis on cultural knowledge in a global religious context.

This is a new and innovative online Revenue-Based Initiative [RBI] program that is unique because of its emphasis on global cultural knowledge and its home in the Department of Religious Studies in the College of Arts and Letters. There is no other Global Nonprofit Leadership initiative here at MSU. This fully online master’s program is different than any other program offered in the State of Michigan. Central Michigan University includes a Master’s of Public Administration in Nonprofit Management, and Grand Valley State University’s Dorothy A. Johnson Center for Philanthropy offers a Master of Philanthropy degree that focus on areas like nonprofit management, marketing, program evaluation, grant making, and budgeting. While it does include practical skills like grant making or grants evaluation, the MSU proposed master’s is centered in the College of Arts and Letters, and its course work explicitly connects global and cultural knowledge to international and national nonprofit activities. It also includes course work in areas of personal development for the nonprofit professional, providing a program distinctive not only in Michigan, but also nationally.

### Academic Programs Catalog Text:

The Master of Arts degree in Nonprofit Leadership, Global Cultures, and Social Enterprise is a transdisciplinary degree administered by the Department of Religious Studies in the College of Arts and Letters. Students will develop expertise in the national and international nonprofit, non- governmental organization, or philanthropic sectors in the context of global cultural knowledge.

Emphasis will be placed on leadership, ethics, values, and human and ecological flourishing in civil society, particularly in a religious context. The areas of primary focus are: 1) nonprofit organizations and leadership; 2) global cultural and religious knowledge, ethics and values; 3) individual and cultural renewal and flourishing; and 4) social entrepreneurship. Practical application and social engagement is emphasized.

In addition to meeting the requirements of the university and the College of Arts and Letters, students must meet the requirements specified below.

### Admission

To be considered for admission to the Master of Arts degree in Nonprofit Leadership, Global Cultures, and Social Enterprise students must:

* + - * 1. have a four-year bachelor's degree from a regionally or nationally accredited institution.
				2. have a cumulative undergraduate grade-point average of at least 3.0 in the last two years of undergraduate study.
				3. have a high degree of potential for advancement to an organizational leadership role.
				4. submit an admissions portfolio consisting of a statement of purpose/letter of intent, a resume or curriculum vitae, three letters of recommendation, copies of official university or college transcripts, and one writing sample in standard American English (SAE).
				5. have an ACM minimum TOEFL score of 90 on the non-native language proficiency test if the student is an international applicant.
				6. submit a portfolio demonstrating professional experience or interest in nonprofit or philanthropic world.

Students who have deficiencies for regular admission to the program may be admitted provisionally. These deficiencies may require additional course work to make up the deficiencies. This course work will not count towards the requirements for the degree.

### Requirements for the Master of Arts Degree in Nonprofit Leadership, Global Cultures, and Social Enterprise

At least 30 credits are required for the degree under Plan A (with thesis) or Plan B (without thesis). At least 15 credits must be at the 800-level. The students program of study is planned and approved in consultation with their advisor. The program is available only online.

CREDITS

#### *Requirements for Both Plan A and Plan B*

Complete a minimum of 26 credits from the following:

|  |
| --- |
| *Cultural Knowledge* |
| REL | 817 | Religion, Cultural Knowledge, and Nonprofits | 2 |
| REL | 818 | Global Religions, NGOs, and Social Change | 2 |
| REL | 819 | Religious Organizations and Civil Society in Asia | 2 |
| REL | 820 | Secularism, Publics, and Religions in Asia | 2 |
| *Skills and Competencies Group* |
| GNL | 821 | Values and Ethics in Applied Leadership | 2 |
| GNL | 822 | Cross Cultural Dialogue and Collaboration | 2 |
| GNL | 823 | Social Entrepreneurship, Innovation, and Religion | 2 |
| GNL | 824 | Social Entrepreneurship and Religion: Case Studies | 2 |
| GNL | 825 | Creativity in Organizations | 2 |
| GNL | 826 | Flourishing Under Stress | 2 |
| *Structural Knowledge* |
| GNL | 827 | Nonprofit Institutions and Civil Society in a Global Context | 2 |
| GNL | 828 | Nonprofit Governance | 2 |
| GNL | 829 | Nonprofits and the Legal Environment | 2 |
| GNL | 830 | Nonprofit and NGO Marketing and Fundraising | 2 |
| GNL | 831 | Grant-writing for Nonprofits | 2 |
| *Other Relevant Courses* |
| GNL | 890 | Independent Study | 1 to 4 |
| MGT | 810 | Human Resource Management for General Managers | 2 |
| MGT | 840 | Leadership and Team Management | 2 |
| MGT | 842 | Leading a Strategy Change | 2 |

Students may enroll in a maximum of two of the MGT courses with approval of the MGT academic advisor.

#### *Additional Requirements for Plan A*

1. The following course:

GNL 899 Master’s Thesis Research 4

1. Completion of a master’s thesis.

#### *Additional Requirements for Plan B*

1. Completion of 4 credits of additional course work to meet the requirement of 30 credits for the degree.
2. Completion of a final oral examination or evaluation.

Effective Fall 2021.

1. Establish a **Master of Arts** degree in **Rhetoric and Writing** in the Department of Writing, Rhetoric and American Cultures. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its October 12, 2020 meeting.

### Background Information:

The department launched graduate programs in 2003 and have maintained two Master of Arts degree programs: one in Critical Studies in Literacy and Pedagogy and the second in Digital Rhetoric and Professional Writing. In the past few years, it has become evident that the majority of our current students are doing work that spans these two areas of emphasis. Although students apply to join and are admitted into one of the two programs, much of the work that students are pursuing and projects they are engaging span literacy, pedagogy, digital rhetoric, and professional writing.

A second important contextual point is the changing professional standards and expectations, at state and national levels, which point toward the value of a named degree in writing (e.g., many community colleges require that instructors have “writing” in the name of the terminal degree to teach writing. Our master’s in critical studies in literacy and pedagogy \*is\* a master’s program focused on writing instruction and composition studies, but may not be recognized as such merely because “writing” does not currently appear in the degree name).

A single master’s program would instead allow us to best leverage our departmental strengths, and would also address the two issues mentioned above. A Master of Arts degree in Rhetoric and Writing would address confusion about the current two master’s programs. Multiple applicants over the past few years have said they just “chose one” rather than strategically, deliberately selecting either critical studies in literacy and pedagogy, or digital rhetoric and professional writing. It also would provide students with a distinct, transcriptable degree in writing. There have been recent issues surfacing among critical studies in literacy and pedagogy graduates about their degree titles not including the term “writing” and thus fostering a misperception that their degrees aren’t in writing studies and that they are not equipped to teach composition. The new master’s allows for the creation of and marketing of the program around concentration areas that better represent the strengths of the program and department.

Nationally, many certificate and master’s programs in writing studies exist. Some are housed in stand-alone, vertical writing programs (like WRAC), but the majority are housed within English Departments. The new Master of Arts Degree in Rhetoric and Writing, if approved, in Fall 2021, will allow us to phase out the two other master’s programs, critical studies in literacy and pedagogy, and digital rhetoric and professional writing. The intent is to put the two existent programs in moratorium during the transition. This is not a request to reinvent or to resuscitate a struggling master’s program; rather, it is a request to rename strong programs with names that are more a legacy of when the programs were launched and less a descriptor of our current strengths.

### Academic Programs Catalog Text:

The Master of Arts Degree in Rhetoric and Writing is an innovative, flexible degree program focused on educating the next generation of humanities leaders and thinkers who will engage their work in both academic and professional contexts. The degree serves both as a professional degree for students interested in a technical and professional writing and a career track in industry, nonprofits, or in non-faculty roles in educational institutions, and as a preparatory degree for doctoral work in rhetoric, writing and composition studies, communication studies, or technical communication.

The program provides students with a theoretically grounded yet practical experience in rhetoric and writing, and offers concentration areas for students to select from: Professional Writing and Technical Communication, Composition Studies and Writing Pedagogy, Digital Rhetorics, Cultural Rhetorics, and Custom Emphasis.

### Admission

To be considered for admission to the Master of Arts degree in Rhetoric and Writing an applicant must:

* + 1. Include in the letter required by the college, a statement that addresses the applicant’s goals in pursuing the degree.
		2. Submit two writing samples demonstrating your ability to engage in graduate-level study.
		3. Three letters of reference.

To be admitted to the program on regular status, an applicant must have a baccalaureate degree in humanities, writing, communications or a related field and have a minimum grade-point average of 3.25.

In addition to meeting the requirements of the university and the College of Arts and Letters, students must meet the requirements specified below.

### Requirements for the Master of Arts Degree in Rhetoric and Writing

The program is available under either Plan A (with thesis) or Plan B (without thesis). A total of 30 credits, of which no more than 12 credits at the 400-level, is required for the degree. The student’s program of study must be approved by the program director. The student must meet the requirements specified below:

CREDITS

#### *Requirements for Both Plan A and Plan B*:

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

|  |  |  |  |
| --- | --- | --- | --- |
| WRA | 805 | Rhetoric Theory and History | 3 |
| Or |  |  |  |
| WRA | 882 | Contemporary Theories of Rhetoric | 3 |
| WRA | 810 | Writing, Composing, Designing, Making | 3 |
| WRA | 886 | Master’s Research Colloquium | 3 |

1. One of the following concentrations (21 credits):

### Professional Writing and Technical Communication

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

|  |  |  |  |
| --- | --- | --- | --- |
| WRA | 420 | Content Strategy | 3 |
| WRA | 453 | Grant and Proposal Writing | 3 |
| Or |  |  |  |
| WRA | 483 | Community Publishing | 3 |
| WRA | 841 | Professional Writing Theory and Practice | 3 |
| WRA | 893B | Internship in Professional Writing | 3 |

* 1. Complete a minimum of 9 additional credits selected in consultation with the program director.

### Composition Studies and Writing Pedagogy

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

|  |  |  |  |
| --- | --- | --- | --- |
| WRA | 870 | Research Methodologies in Rhetoric |  |
|  |  | and Writing | 3 |
| WRA | 878 | Composition studies: Issues, Theory |  |
|  |  | and Research | 3 |
| WRA | 888 | Methods in the Teaching of College-Level |  |
|  |  | Writing | 3 |
| WRA | 891 | Special Topics in Rhetoric and Writing | 3 |
| Or |  |  |  |
| WRA | 889 | Writing Center Theory and Administration | 3 |

1. Complete a minimum of 9 additional credits selected in consultation with the program director.

### Digital Rhetorics

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

|  |  |  |  |
| --- | --- | --- | --- |
| WRA | 415 | Digital Rhetoric | 3 |
| WRA | 841 | Professional Writing Theory and Research | 3 |
| WRA | 860 | Multimodal Composing Theory and Practice | 3 |

1. Complete a minimum of 12 additional credits selected in consultation with the program director.

### Cultural Rhetorics

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

|  |  |  |  |
| --- | --- | --- | --- |
| WRA | 882 | Contemporary Theories of Rhetoric | 3 |
| WRA | 848 | Cultural Rhetorics Theory and Methodology | 3 |
| WRA | 891 | Special Topics in Rhetoric and Writing | 6 |

WRA 891 should be completed in two different offerings. WRA 882 may not be double-counted in the core requirement.

1. Complete a minimum of 9 additional credits selected in consultation with the program director.

### Custom Emphasis

Students will complete 21 credits determined in consultation with the student’s advisor.

#### *Elective Courses Available for Concentrations*

|  |  |  |  |
| --- | --- | --- | --- |
| WRA | 401 | Rhetoric, Leadership, and Innovation | 3 |
| WRA | 410 | Advanced Web Authoring | 3 |
| WRA | 415 | Digital Rhetoric | 3 |
| WRA | 420 | Content Strategy | 3 |
| WRA | 441 | Social Justice as Rhetorical Practice | 3 |
| WRA | 453 | Grant and Proposal Writing | 3 |
| WRA | 455 | Portfolio Seminar | 3 |
| WRA | 471 | Rhetoric of Grammar | 3 |
| WRA | 480 | Publication Management | 3 |
| WRA | 482 | Information and Interaction Design | 3 |
| WRA | 483 | Community Publishing | 3 |
| WRA | 484 | Ethics in Writing | 3 |
| WRA | 491 | Special Topics | 3 |
| WRA | 495 | Advanced Studies in Writing and Tutoring Pedagogy | 1 |
| WRA | 805 | Rhetoric Theory and History | 3 |
| WRA | 841 | Professional Writing Theory and Research | 3 |
| WRA | 848 | Cultural Rhetorics Theory and Methodology | 3 |
| WRA | 853 | Workshop in Rhetoric and Writing | 3 |
| WRA | 860 | Multimodal Composing Theory and Practice | 3 |
| WRA | 870 | Research Methodologies in Rhetoric and Writing | 3 |
| WRA | 872 | Methods of Research in Rhetoric and Writing | 3 |
| WRA | 878 | Composition Studies: Issues, Theory, and Research | 3 |
| WRA | 882 | Contemporary Theories of Rhetoric | 3 |
| WRA | 888 | Methods in the Teaching of College-Level Writing | 3 |
| WRA | 889 | Writing Center Theory and Administration | 3 |
| WRA | 891 | Special Topics in Rhetoric and Writing | 3 |
| WRA | 893B | Internship in Professional Writing | 3 |
| WRA | 893D | Internship in Literacy and Pedagogy | 3 |
| WRA | 992 | Seminar in Literacy Studies | 3 |

Additional 400- or 800-level course work outside the department may be available with approval of the advisory committee and the Director of Graduate Studies.

#### *Additional Requirements for Plan A*

1. Complete 4 to 6 credits of WRA 899 Master’s Thesis Research. These credits will count towards the credits for the concentration.
2. Pass a final oral certifying examination in defense of the thesis and course work.

#### *Additional Requirements for Plan B*

1. Complete an additional 3 to 6 credits of course work from the list of electives above. These credits will count towards the credits for the concentration.
2. Pass a final certifying examination on the course work or complete a final portfolio and pass a final oral examination on the portfolio.

Effective Fall 2021.

## ELI BROAD COLLEGE OF BUSINESS

1. Establish a **Master of Science** degree in **Financial Planning and Wealth Management** in the Department of Finance. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its October 12, 2020 meeting.

### Background Information:

Companies and individuals in the financial planning and wealth management industry have approached the Department of Finance in recent years and asked that we increase the number of our students with academic training in the industry. The industry employs approximately 300,000 financial planners and wealth managers in the United States, and approximately one-third of these are approaching retirement age. There clearly is a demand for qualified individuals in this industry.

A career as a financial advisor is one of the most rewarding careers for those who enjoy enabling others to reach their goals and live better lives. This career path involves a lot more than setting asset allocations or picking the right stocks, bonds and mutual funds—it’s all about relationships.

The title “financial advisor” is a broad description of many other types of careers you can have in this field. Other jobs include chief investment officer, portfolio manager, relationship manager, financial planner, investment analyst, trust officer, retirement plan specialist and account executive.

The Certified Financial Planner (CFP) designation is highly recommended for this career track, and this designation is a key goal for students in the program. The CFP designation is the most prominent certification in the industry and is required for many jobs in the industry.

The Department of Finance has a strong presence in this field through its undergraduate Finance curriculum. The department also currently partners with the Certified Financial Planner Board of Standards Inc. (CFP Board) and its Certified Financial Planner (CFP) designation in an effort to develop the financial services market.

CFP Board is a Washington, D.C.-based independent 501(c)(3) non-profit organization whose mission is to benefit the public by granting, upholding and promoting the Certified Financial Planner (CFP®) certification. Those who earn the certification are distinguishing themselves among their peers by meeting CFP Board’s education, examination, experience and ethics requirements.

Students completing the financial planning program at Michigan State University will have met the education requirement for CFP® certification examination administered by CFP Board.

CFP Board currently oversee more than 300 programs at more than 200 institutions. CFP Board- registered programs are financial planning education programs at the college or university level that meet specific criteria for educating individuals who wish to fulfill the education component for obtaining CFP® certification.

### Academic Programs Catalog Text:

The Master of Science degree in Financial Planning and Wealth Management is designed to develop the knowledge and skills necessary to thrive in the field of financial planning and wealth management. The program develops knowledge of the industry’s financial, accounting, taxation, and regulatory environments, as well as the art of relationship management and the importance of individual client differences.

### Admission

Students may begin the program in any semester, as space permits. Applications for summer or fall admission must be received by March 15. Applications for spring admission must be received by October 1.

To be considered for admission to the program, applicants must:

* + 1. submit a completed application packet to the Director of the program, available on the program Web site.
		2. take the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) and have the scores submitted to the program Director. The GMAT test must be taken not more than five years or the GRE not more than two years prior to the submission of the application for admission to the program. Current Michigan State

University students with an overall grade-point average of 3.0 or higher are not required to take the GMAT or GRE.

The minimum standards for admission to the program are:

1. a bachelor's degree from a recognized educational institution with a minimum grade-point average of 3.0
2. completion of the following prerequisite courses, or their equivalents at MSU or at another institution:
	1. an introduction to accounting
	2. probability and statistics
3. a strong GMAT/GRE score. Students with qualifying credentials may be able to waive the GMAT/GRE requirement. Applicants should consult with the program Director to see if they are eligible for the waiver.

Admission to the program is competitive and subject to space availability. The program accepts qualified applicants whose undergraduate degree is not in business or finance.

Meeting the minimum standards listed above does not guarantee admission. The applicant’s overall record is considered including letters of recommendation, the student’s statement of objectives, any relevant work experience, extra-curricular activities, and TOEFL or IELTS scores when appropriate.

### Requirements for the Master of Science Degree in Financial Planning and Wealth Management

The program is available under Plan B (non-thesis). A total of 30 credits are required for the degree, as described below.

CREDITS

1. Students must complete 18 credits from the following:

|  |  |  |  |
| --- | --- | --- | --- |
| FI | 801 | Managerial Finance | 3 |
| FI | 830 | Introduction to Financial Planning and Wealth |  |
|  |  | Management | 3 |
| FI | 832 | Principles of Insurance and Risk Management | 3 |
| FI | 836 | Estate and Income Tax Planning | 3 |
| FI | 838 | Advanced Financial Planning and Wealth |  |
|  |  | Management | 3 |
| FI | 850 | Introduction to Investments I | 1.5 |
| FI | 851 | Introduction to Investments II | 1.5 |

1. Complete an additional 12 credits from an approved list of elective courses available from Department of Finance.
2. Completion of a final examination or evaluation.

### Academic Standards

Students who are enrolled in the Master of Science Degree in Financial Planning and Wealth Management program are expected to maintain a minimum grade-point average of 3.0 each semester, as well as a minimum cumulative grade-point average of 3.0. A student who does not maintain a 3.0 grade-point cumulative average will be placed on probation. Such a student will be given the next semester of enrollment to achieve a 3.0 grade-point cumulative average, otherwise, dismissal from the program will result.

The Program Director is responsible for monitoring the progress of students who are enrolled in the program. A policy statement containing additional information relative to academic standards is available from the Director.

Effective Fall 2021.

1. Establish a **Graduate Certificate** in **Financial Planning and Wealth** Management in the Department of Finance. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its October 12, 2020 meeting.

### Background Information:

Companies and individuals in the financial planning and wealth management industry have approached the Department of Finance in recent years and asked that we increase the number of our students with academic training in the industry. The industry employs approximately 300,000 financial planners and wealth managers in the United States, and approximately one-third of these are approaching retirement age. There clearly is a demand for qualified individuals in this industry.

A career as a financial advisor is one of the most rewarding careers for those who enjoy enabling others to reach their goals and live better lives. This career path involves a lot more than setting asset allocations or picking the right stocks, bonds and mutual funds—it’s all about relationships.

The title “financial advisor” is a broad description of many other types of careers you can have in this field. Other jobs include chief investment officer, portfolio manager, relationship manager, financial planner, investment analyst, trust officer, retirement plan specialist and account executive.

The Certified Financial Planner (CFP) designation is highly recommended for this career track, and this designation is a key goal for students in the program. The CFP designation is the most prominent certification in the industry and is required for many jobs in the industry.

The Department of Finance has a strong presence in this field through its undergraduate Finance curriculum. The department also currently partners with the Certified Financial Planner Board of Standards Inc. (CFP Board) and its Certified Financial Planner (CFP) designation in an effort to develop the financial services market.

CFP Board is a Washington, D.C.-based independent 501(c)(3) non-profit organization whose mission is to benefit the public by granting, upholding and promoting the Certified Financial Planner (CFP®) certification. Those who earn the certification are distinguishing themselves among their peers by meeting CFP Board’s education, examination, experience and ethics requirements.

Students completing the financial planning program at Michigan State University will have met the education requirement for CFP® certification examination administered by CFP Board.

CFP Board currently oversee more than 300 programs at more than 200 institutions. CFP Board- registered programs are financial planning education programs at the college or university level that meet specific criteria for educating individuals who wish to fulfill the education component for obtaining CFP® certification.

### Academic Programs Catalog Text:

The Graduate Certificate in Financial Planning and Wealth Management is designed to develop the knowledge and skills necessary to thrive in the field of financial planning and wealth management. The program develops knowledge of the industry’s financial, accounting, taxation, and regulatory environments, as well as the art of relationship management and the importance of individual client differences.

### Admission

Students may begin the program in any semester, as space permits. Applications for summer or fall admission must be received by March 15. Applications for spring admission must be received by October 1.

To be considered for admission to the program, applicants must:

* + 1. submit a completed application packet to the Director of the program, available on the program Web site.
		2. take the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) and have the scores submitted to the program Director. The GMAT test must be taken not more than five years or the GRE not more than two years prior to the submission of the application for admission to the program. Current Michigan State University students with an overall grade-point average of 3.0 or higher are not required to take the GMAT or GRE.

The minimum standards for admission to the program are:

1. a bachelor's degree from a recognized educational institution with a minimum grade-point average of 3.0
2. completion of the following prerequisite courses, or their equivalents at MSU or at another institution:
	1. an introduction to accounting
	2. probability and statistics
3. a strong GMAT/GRE score. Students with qualifying credentials may be able to waive the GMAT/GRE requirement. Applicants should consult with the program Director to see if they are eligible for the waiver.

Admission to the program is competitive and subject to space availability. The program accepts qualified applicants whose undergraduate degree is not in business or finance.

Meeting the minimum standards listed above does not guarantee admission. The applicant’s overall record is considered including letters of recommendation, the student’s statement of objectives, any relevant work experience, extra-curricular activities, and TOEFL or IELTS scores when appropriate.

### Requirements for the Graduate Certificate in Financial Planning and Wealth Management

CREDITS

Students must complete 18 credits from the following:

|  |  |  |  |
| --- | --- | --- | --- |
| FI | 801 | Managerial Finance | 3 |
| FI | 830 | Introduction to Financial Planning and Wealth |  |
|  |  | Management | 3 |
| FI | 832 | Principles of Insurance and Risk Management | 3 |
| FI | 836 | Estate and Income Tax Planning | 3 |
| FI | 838 | Advanced Financial Planning and Wealth Management | 3 |
| FI | 850 | Introduction to Investments I | 1.5 |
| FI | 851 | Introduction to Investments II | 1.5 |

Other classes may be used to fulfill these requirements with department approval. Students that are continuing their education at MSU may substitute up to 9 credits in their program from equivalent 400-level courses in Finance taken in their undergraduate program. The department maintains a list of course equivalencies for courses in the Department of Finance.

### Academic Standards

Students who are enrolled in the Graduate Certificate in Financial Planning and Wealth Management program are expected to maintain a minimum grade-point average of 3.0 each semester, as well as a minimum cumulative grade-point average of 3.0. A student who does not maintain a 3.0 grade-point cumulative average will be placed on probation. Such a student will be given the next semester of enrollment to achieve a 3.0 grade-point cumulative average, otherwise, dismissal from the program will result.

The Program Director is responsible for monitoring the progress of students who are enrolled in the program. A policy statement containing additional information relative to academic standards is available from the Director.

Effective Fall 2021.

1. Establish a Linked **Bachelor of Arts Degree in Finance** and **Master of Science Degree in Financial Planning and Wealth Management** in the Department of Finance. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its October 15, 2020 meeting. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its October 12, 2020 meeting.

Per University policy:

A candidate for a Linked Bachelor's-Master's Degree from Michigan State University may request the application of up to 9 credits toward the master's program for qualifying 400-level and above course work

taken at the undergraduate level at Michigan State University or another postsecondary accredited institution of comparable academic quality. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master's degree. Some colleges with programs that require more than 30 credits for the master's degree may apply more than 9 credits toward the master's degree but not more than 30% of the total number of credits required for the master's degree. Credits applied to the Linked Bachelor's-Master's Program are not eligible to be applied to any other graduate degree program.

* 1. Add the following statement in the Department of Finance:

#### *LINKED BACHELOR’S-MASTER’S DEGREE IN FINANCIAL PLANNING AND WEALTH* MANAGEMENT

***Bachelor of Arts Degree in Finance***

***Master of Science Degree in Financial Planning and Wealth Management***

The department welcomes applications from Michigan State University undergraduate students in the Finance major in their junior and senior year. Admission applications must be made during the prior spring semester for an anticipated spring graduation or the prior fall semester for an anticipated fall graduation to allow admission before the final semester as a Finance undergraduate. Admission to the Linked Bachelor’s-Master’s program requires admission to the Master of Science in Financial Planning and Wealth Management degree program, completion of the required prerequisites for the master’s program, and an approved program of study for the Master of Science degree at the time of admission. Admission to the Linked Bachelor’s-Master’s program allows the application of up to 9 credits toward the master’s program for qualifying 400- level and above course work taken at the undergraduate level at Michigan State University or an external accredited institution. The number of approved credits, not to exceed 9, are applied toward the credit requirement of the master’s degree. Credits applied to the Linked Bachelor’s-Master’s program are not eligible to be applied to any other graduate degree program.

Effective Fall 2021.

## COLLEGE OF COMMUNICATION ARTS AND SCIENCES

1. Change the requirements for the **Bachelor of Science** degree in **Advertising Management** in the Department of Advertising and Public Relations.
	1. Under the heading **Requirements for the Bachelor of Science Degree in Advertising Management** make the following changes:
		1. in item 3. b. delete the following course:

ADV 260 Principles of Public Relations 3

Add the following course:

PR 260 Principles of Public Relations 3

Effective Fall 2021.

1. Change the requirements for the **Doctor of Philosophy** degree in **Communication** in the Department of Communication. The University Committee on Graduate Studies (UCGS) approved this request at its January 11, 2021 meeting.
	1. Under the heading **Requirements for the Doctor of Philosophy Degree in Communication**

replace the entire entry with the following:

The student must:

1. Earn a Master of Arts degree, or equivalent, prior to being awarded the Doctor of Philosophy degree.
2. Complete the following core courses, typically during the first year in the doctoral program (16 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| COM | 801 | Communication Research I | 4 |
| COM | 802 | Communication Research II | 4 |
| COM | 901 | Communication Research Design I | 4 |
| COM | 902 | Communication Research Design II | 4 |

1. Earn a grade-point average of 3.25, or the student will be eligible for elimination from the program.
2. Earn no two grades below 3.0 in any of the evaluative structures the department uses to evaluate doctoral students, including course work, research team, or faculty evaluations of student teaching, or the student will be eligible for elimination from the program.
3. Earn a minimum of an additional 26 credits of course work agreed upon and approved by the student's guidance committee.
4. Complete a minimum of 24 credits and no more than 36 credits, of COM 999 Doctoral Dissertation Research.
5. Write and successfully defend a preliminary research paper or comprehensive exam.
6. Write and successfully orally defend the dissertation.

Effective Fall 2021.

1. Establish a **Bachelor of Science** degree in **Communicative Sciences and Disorders** in the Department of Communicative Sciences and Disorders. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its December 3, 2020 meeting.

### Background Information:

The primary reasons for re-establishing an undergraduate major in Communicative Sciences and Disorders (CSD) are: student demand, strength of the Communicative Sciences and Disorders department, and versatility in career options for undergraduate students who complete the proposed program.

At the end of the 2019-2020 academic year there were 150 students pursing the minor in Communicative Sciences and Disorders. This number has been on an upward trajectory for the prior 5 years, increasing by 50% from 2014. CSD course enrollments by calendar year has increased by 70% from 2014 to 2020. Exit survey data from 2018 and 2019 indicated that 100% of MSU students graduating with a CSD minor wanted a CSD major. College of Communication Arts and Sciences (CAS) advisors and others in the college undergraduate administration report frequent inquiries from current and prospective students about whether a CSD major is offered.

Establishing the CSD major will ensure that MSU does not lose strong prospective undergraduate students who know they want to major in CSD to other universities locally and nationwide.

The growth of the minor is impressive considering the challenges that MSU undergraduates face when choosing CSD training. Currently, students must complete a non-CSD major even though they have a specific interest in a CSD major. They complete the CSD minor (21 credits) but must also take 6 additional CSD credit hours that are not part of the major in order to be competitive for graduate school admission for a master’s in speech-language pathology or clinical doctorate in audiology. Communication with other CSD programs in the state indicate that graduate programs are looking for these additional CSD courses that are not part of our CSD minor. Further, additional undergraduate course work in statistics and social, biological, and physical sciences (typically 12 credit hours) are specifically mandated by national certification standards for students interested in pursuing a graduate degree for clinical practice. That is, in addition to the 21 credits in the CSD minor, students must take approximately 18 additional credit hours that may or may not contribute to the major they are pursing.

There are eight institutions in the state of Michigan offering an undergraduate major in CSD or Speech-Language-Hearing Sciences/Pathology. Based on data on undergraduate enrollment in CSD programs published by the American Speech-Language-Hearing Association (*https://find.asha.org/ed#sort=relevancy*), the MSU Department of Communicative Sciences and Disorders currently trains the second largest number of undergraduates in CSD through our minor compared to enrollments in the majors at each of the other Michigan universities. We do not anticipate that re-establishing the CSD major at MSU will substantially impact enrollment in CSD majors at other universities in Michigan. Rather, we anticipate about the same number of students

who are choosing MSU with a non-CSD major plus the CSD minor to opt, instead, to select the reestablished CSD major. The reason they would do this is because the primary career objective for nearly all of them is to be a speech-language pathologist or audiologist. The shift to a major will essentially result in neutral growth in the statewide pool of undergraduates interested in pursuing a graduate degree in CSD although this may increase to some extent as the major grows. Based on historical data from MSU between 1996 – 2010 when there was an undergraduate major in CSD, the average number of students in the major was approximately 200 in a given academic year. Re- establishing a CSD major at this time is likely to approximate that enrollment.

The Department of Communicative Sciences and Disorders has grown in faculty size as well as depth and breadth of expertise over the past several years. Research productivity, grant activity, and teaching excellence are high and on a continued upward trajectory. This has resulted in increased capacity to train students at all levels, including undergraduates. At the undergraduate level, this is reflected in the course enrollment trend from 2014 to the present noted above (70% course enrollment increase). At the graduate level, there has been significant growth in the Ph.D. program in terms of enrollment and graduation of students. Training at the master’s level has been strengthened by the departmental growth although enrollment is constrained by the need for clinical placements in the community. The Department of Communicative Sciences and Disorders is in an excellent position to re-establish and sustain an undergraduate major in CSD that is in demand by students.

The CSD major will allow students who attain the degree to pursue a variety of career options. It is the case that the majority express a desire to be a speech-language pathologist or audiologist, and nearly all will apply to graduate schools to complete the required training to achieve that goal.

Strong undergraduate CSD training at MSU will prepare students who are competitive in the application process to attend the master’s degree program in CSD at MSU and other graduate programs in the state and across the nation. As referenced above, the 21 credits that constitute the minor includes most but not all of the foundational course work that graduate programs generally require (e.g., phonetics, introduction to communication disorders), requiring students to take additional credits outside of the minor and outside of their chosen major. In the proposed major, a rich curriculum includes all of the content that CSD graduate programs look for in successful applicants.

The CSD major includes training and learning outcomes that will prepare students for other options if they choose not to pursue, or are unsuccessful in acquiring a spot for, a clinical graduate degree in CSD. Those who want to stay within the CSD field and who have an interest in research can consider pursuit of a Ph.D. For the past two decades, the American Speech-Language-Hearing Association (ASHA) has documented and attempted to address serious shortages in the number of Ph.D.-level academic-researchers in CSD (ASHA, 2002; ASHA, 2008). While some progress has been made (ASHA, 2018), in the most recent CSD Education Survey: 2018-2019 academic year from ASHA, the most frequently identified “major factor” impacting enrollment in Ph.D. programs (76 of 82 Ph.D. degree granting programs (93%) responding) was “insufficient number of qualified applicants.” Additionally, the “percent filled capacity” in Ph.D. programs steadily increased from 34% in 2008-2009 to a peak of 62% in 2014-2015, but has steadily declined since to 45% in 2018- 2019. A similar decline in Ph.D. degrees granted has occurred in recent years from a peak of 201 in 2014-2015 to 142 in 2018-2019. The new CSD major will prepare students with the foundational knowledge in the science of communication and its disorders, and it will foster interest in research careers to help build a stronger and deeper pool of applicants to CSD Ph.D. programs. This includes establishing a pipeline to the MSU Department of CSD’s own doctoral program.

Preparation in the new CSD major also can serve as a launching point into other graduate programs or careers. The study of human communication – normal and disordered – is at the core of CSD training and it is achieved from perspectives that include the social, biological, physical, statistical, and cognitive sciences (ASHA, 2015a). The proposed program incorporates the directive from ASHA to ground undergraduate CSD education from an interdisciplinary framework that emphasizes valuable skills in “critical thinking, quantitative reasoning, higher order reading and writing, and oral communication” (p.1, ASHA 2015b), and doing so from both a basic and applied science perspective. This training will be valued in graduate programs outside of CSD. Within CAS, for example, programs such as the Master’s in Health and Risk Communication or the Ph.D. in Communication with an emphasis in health communication or interpersonal communication would be excellent graduate degrees to consider. For students graduating with the undergraduate CSD major who do not choose graduate school, or who do not secure a spot in graduate school, careers in education, health care, communication, and human services will be possibilities. For example, work within sales professions – particularly those related to science, health, or education – are

within reach given the scientific, interdisciplinary training that emphasizes strong communication and collaboration skills. Other careers such as Applied Behavior Analysis technician or speech- language pathology assistant are also within reach.

In establishing the CSD major, the current CSD minor will remain in existence. The number of MSU undergraduates choosing the minor is expected to decrease markedly when the major is available. However, there are some students now and expected in the future whose primary interest lies outside of CSD, but for whom the minor provides complimentary training to serve their career goals.

### Academic Programs Catalog Text:

The Bachelor of Science degree in Communicative Sciences and Disorders trains students in the understanding of both normal and disordered aspects of speech, language, hearing, and swallowing. The major is designed to equip students with knowledge and emerging skills for the diagnosis and treatment of communication disorders. Primary areas of emphasis are placed on critical thinking and understanding of scientific inquiry as it relates to communication disorders. Students in the major will also learn and practice oral and written communication skills, develop as a reflective learner, and demonstrate growth in professional communication skills. An additional area of emphasis for student learning is understanding issues of diversity, inclusion, equity, and ethical practice within the field of communicative sciences and disorders. Collaboration, teamwork, and interprofessional knowledge and skill development are critical areas of focus for students in the major to prepare them to effectively contribute to the profession of communicative sciences and disorders and to society at large. Majors will commonly pursue graduate degrees in speech- language pathology or audiology. The knowledge and skills acquired in the major can also serve as preparation for other graduate degree programs or for careers in educational, healthcare, and business settings that value scientific training, strong communication skills, and the ability to work collaboratively.

### Requirements for the Bachelor of Science Degree in Communicative Sciences and Disorders

* + 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 Science degree in Communicative Sciences and Disorders.

The University's Tier II writing requirement for the Communicative Sciences and Disorders major is met by completing Communicative Sciences and Disorders 470 and

472. Those courses are referenced in item 3. below.

* + 1. The requirements of the College of Communication Arts and Sciences for the Bachelor of Science degree.
		2. The following requirements for the major:

CREDITS

* + - 1. All of the following courses with a cumulative grade-point average of 2.00 or higher in CSD 203, 213, 232, 303, 313, and 333 (36 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| CSD | 203 | Introduction to Communicative Sciences |  |
|  |  | and Disorders | 3 |
| CSD | 213 | Anatomy and Physiology of the Speech |  |
|  |  | and Hearing Mechanisms | 3 |
| CSD | 232 | Descriptive Phonetics | 3 |
| CSD | 303 | Fundamentals of Hearing and Audiometry | 3 |
| CSD | 313 | Speech Science | 3 |
| CSD | 333 | Language Development | 3 |
| CSD | 364 | Evaluation Procedures in Speech-Language |  |
|  |  | Pathology | 3 |
| CSD | 391 | Clinical Methods in Communication |  |
|  |  | Disorders | 3 |
| CSD | 444 | Clinical Procedures in Audiology and Aural |  |
|  |  | Rehabilitation | 3 |
| CSD | 463 | Intervention Procedures in Speech-Language |  |
|  |  | Pathology | 3 |
| CSD | 470 | Introduction to Developmental Communicative |  |
|  |  | Disorders (W) | 3 |
| CSD | 472 | Introduction to Acquired Communicative |  |

Disorders (W) 3

The completion of CSD 470 and 472 satisfies the capstone/synthesis requirement for the Communicative Sciences and Disorders major.

* + - 1. One of the following courses (3 credits):

PSY 295 Data Analysis in Psychological Research 3

STT 200 Statistical Methods 3

* + - 1. One of the following courses (3 or 4 credits):

ANP 201 Introduction to Cultural Anthropology 3

PSY 101 Introductory Psychology 4

SOC 100 Introduction to Sociology 4

* + - 1. One of the following courses (3 credits):

ISB 202 Applications of Environmental and

Organismal Biology 3

ISB 204 Applications of Biomedical Sciences 3

* + - 1. One of the following courses (3 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| ISP | 209 | The Mystery of the Physical World | 3 |
| ISP | 215 | The Science of Sound | 3 |
| ISP | 220 | Quarks, Spacetime, and the Big Bang | 3 |
| One of the following courses (2 credits): |
| ISB | 208L | Applications in Biological Science |  |
|  |  | Laboratory | 2 |
| ISP | 209L | The Mystery of the Physical World |  |
|  |  | Laboratory | 2 |
| One of the following courses (3 or 4 credits): |
| LIN | 200 | Introduction to Language | 3 |
| LIN | 401 | Introduction to Linguistics | 4 |
| LIN | 450 | Child Language Acquisition | 3 |
| One of the following courses (3 credits): |
| HDFS | 211 | Child Growth and Development | 3 |
| HDFS | 225 | Lifespan Human Development in the Family | 3 |
| PSY | 238 | Developmental Psychology: Lifespan | 3 |
| PSY | 244 | Developmental Psychology: Infancy |  |
|  |  | Through Childhood | 3 |
| A minimum of 3 credits from the following courses: |
| COM | 310 | Intercultural Communication | 3 |
| COM | 320 | Diversity and Communication | 3 |
| CSD | 419 | International Aspects of Communicative |  |
|  |  | Disorders | 1 to 6 |
| LIN | 225 | Language and Gender | 3 |
| LIN | 471 | Sociolinguistics | 3 |
| One of the following courses (3 credits): |
| LIN | 455 | Neurolinguistics | 3 |
| LIN | 463 | Introduction to Cognitive Science | 3 |
| PSY | 209 | Brain and Behavior | 3 |
| PSY | 301 | Cognitive Neuroscience | 3 |
| **Electives**: |

f.

g.

h.

i.

j.

k.

Additional credits in CSD courses can be taken as electives. Topics in Communicative Sciences and Disorders (CSD 491) are encouraged to increase breadth and depth of training in communicative sciences and disorders. Only credits in courses graded on the numerical or Pass-No Grade system may be counted toward the requirements for the Communicative Sciences and Disorders major. Communicative Sciences and Disorders students may not enroll in courses required for the major, including courses in other departments, on a Credit-No Credit basis.

Effective Fall 2021.

* + 1. Establish a **Bachelor of Arts** degree in **Digital Storytelling** in the School of Journalism. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its December 3, 2020 meeting.

*The concentrations in the Bachelor of Arts degree in Digital Storytelling will be noted on the student’s academic record when the requirements for the degree have been completed.*

### Background Information:

Faculty from the Department of Media and Information joined the School of Journalism effective January 2020. This restructure was built by an understanding that there were overlapping skills and productions between faculties in the two areas. To best serve student demand and the academic experience, the college felt it was necessary to capitalize on the synergies of supporting faculty and incorporate the digital production courses from the Department of Media and Information into the School of Journalism under the Digital Storytelling umbrella.

Furthermore, students and faculty in the School of Journalism have a wide array of interests and expertise that coincide with the curriculum offered by the Digital Storytelling degree so it is a natural fit to add the new program into the offerings of the School of Journalism. Journalism faculty are experts in the areas of concentration and journalism students can benefit by having the ability to hone specific skills that add depth to their marketability. The addition of this degree offering will allow students to best navigate a thoughtful degree program with concentration areas that will serve them immediately.

The Bachelor of Arts Degree in Digital Storytelling is built on the concept of converging methods and careers in the media industry. Producers, students and instructors in digital storytelling are collaborative by nature. Synergies with journalistic endeavors exist fundamentally in production and theoretical elements within the program. Research and production in the digital storytelling realm naturally fit within the scope and target of the School of Journalism at Michigan State University.

The major in digital storytelling is unique from related programs both at Michigan State University and statewide. The approach taken in the digital storytelling program is based on an understanding and implementation of the converging nature of the related fields and technologies.

Comparatively to other programs at Michigan State University, the Bachelor of Arts degree program in Digital Storytelling is distinctive in that it combines course work across the disciplines of animation, audio storytelling, filmmaking, and multicamera production. Other units on campus have a more specific approach of film studies as an exclusive topic.

MSU acknowledges there are related programs at Central Michigan, Eastern Michigan, Ferris State, Grand Valley, University of Michigan, and Western Michigan, but, when compared to related programs across the state of Michigan, the digital storytelling major stands out again as having a holistic approach while allowing students to gain expertise in their specific fields of interest.

Programs often focus on either theoretical studies or hands-on implementation, whereas the digital storytelling program combines these practices while also giving students the flexibility later in their careers by preparing them for the changing media landscape. The conceptual and technical skills in related programs often focus on a single or small grouping of career fields.

### Academic Programs Catalog Text:

Digital storytelling is the foundation for the world of media. The Bachelor of Arts degree in Digital Storytelling prepares students for a career in a media-focused world and provides them with the tools and techniques needed for creative, entrepreneurial and analytical processes and production. Graduates are prepared for a multitude of career paths -- film, television, corporate communications, digital advertising, new media—anything that involves using sound and image to entertain, inform and/or educate. The digital storytelling major has an interdisciplinary focus with courses from Communication Arts and Science, Film Studies, Journalism, and Media and Information.

The program of study encompasses a common core with foundational and supplementary courses. Students must choose one of the following 12-credit transcriptable concentrations or a 15-credit minor:

The ***Animation Concentration*** focuses on the production and theory of animated works in storytelling. Students completing this concentration will be prepared for understanding and producing stories via animation. Students will gain a background in the theoretical and practical uses of the animated form.

The ***Audio Storytelling Concentration*** is focused on storytelling through the art and science of production through audio. Students gain hands-on experience producing stories through sound for audio-based models such as terrestrial broadcast radio, satellite radio and web-based distribution and podcasts. Students will learn the fundamentals of audio technology, delivery and presentation, sound design and theory, and industry organization and business concepts.

The ***Filmmaking Concentration*** focuses on filmmaking – both fiction and non-fiction in focus. Students learn pre-production, production, and post-production techniques and design principles involved in documentary and fiction film. Students also gain experience in producing, directing, and managing media projects for distribution on multiple platforms including broadcast, cable, mobile networks, and the Internet.

The ***Multicam Production Concentration*** focuses on media production using industry multi- camera approaches. Students will learn hands-on multicam techniques for broadcast television and related fields. This concentration emphasizes theory and execution of live directing and production of multicam broadcasts. Students will establish an understanding of production techniques for media distribution including traditional broadcast, mobile networks and web formats.

The ***Minor in Documentary Production*** introduces undergraduates to the history, theory, and production of documentary media. Documentary production focuses on issues of media, representation, and reality. It engages directly with the fundamental understanding of how the world is presented, represented, distorted, structured, and shaped. Interpretation and representation of reality constitutes a central axis of inquiry and debate. By integrating production and analysis, students in this minor produce theoretically informed work and develop a cutting-edge understanding of the challenges inherent in representing reality.

The ***Minor in Fiction Filmmaking*** educates students in the history, theory, and production of fiction film. Students who enroll in this minor combine practical skills in production with conceptual training in film studies to produce theoretically informed work while developing an understanding of the challenges of creating high-quality films.

### Requirements for the Bachelor of Arts Degree in Digital Storytelling

* + - * 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 Digital Storytelling.

The University's Tier II writing requirement for the Digital Storytelling major is met by completing one of the following courses: Digital Storytelling 411B or 435B or 441 or 442A or 442B or 442C or 443, or Journalism 312. Those courses are referenced in item

3. below.

* + - * 1. The requirements of the College of Communication Arts and Sciences for the Bachelor of Arts degree.
				2. The following requirements for the major:

CREDITS

All of the following core courses with a minimum grade-point average of

2.0 (12 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| CAS | 112 | Story, Sound and Motion | 3 |
| DS | 103 | Media History | 3 |
| DS | 113 | Story, Sound and Motion II | 3 |
| JRN | 108 | The World of Media | 3 |

Complete a concentration or minor (12 to 15 credits):

### Animation

Complete the following courses (9 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| JRN | 212 | 2D Animation Storytelling | 3 |
| JRN | 312 | Stop Motion Animation |  |
|  |  | Storytelling (W) | 3 |
| JRN | 413 | 3D Animation Storytelling | 3 |
| One of the following courses (3 credits): |
| JRN | 412 | Scoring for Moving Pictures | 3 |
| MI | 337 | Compositing and Special Effects | 3 |

2.

### Audio Storytelling

1. Complete three of the following courses (9 credits):

DS 243 Audio Storytelling 3

DS 343 Podcasting 3

DS 344 Sound Design for Storytelling 3

JRN 412 Scoring for Moving Pictures 3

1. Complete the following course (3 credits):

DS 443 Advanced Audio Design (W) 3

### Filmmaking

1. Complete the following courses (9 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| DSDS | 241341 | Filmmaking I: Basics of Film ProductionFilmmaking II: Creating Short | 3 |
|  |  | Films | 3 |
| DS | 441 | Filmmaking III: Advanced |  |
|  |  | Filmmaking Capstone (W) | 3 |
| One of the following courses (3 credits): |
| DS | 311 | Introduction to Documentary |  |
|  |  | Filmmaking | 3 |
| DS | 351 | Producing for Cinema and |  |
|  |  | Television | 3 |
| DS | 409 | Advanced Lighting and Camera |  |
|  |  | Techniques | 3 |
| DS | 440 | Advanced Video Editing | 3 |
| FLM | 334 | Introduction to Screenwriting (W) | 3 |

2.

### Multicam Production

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

|  |  |  |  |
| --- | --- | --- | --- |
| DS | 242 | Multicam Production I | 3 |
| DS | 342 | Multicam Production II | 3 |

1. Two of the following courses, one of which must be DS 442A, DS 442B, or DS 442C:

DS 442A Multicam Production for Arts (W) 3

DS 442B Multicam Production for Sports (W) 3

DS 442C Multicam Production for News (W) 3

THR 411 Stage Lighting Design 3

THR 416 Stage Sound Design 3

Students may choose to complete one of the following minors (15 credits):

Documentary Production or Fiction Filmmaking. Students should consult the *Academic Programs* catalog statement in the department that administers the minor to learn the requirements.

Complete a minimum of 12 elective credits of courses from the following:

|  |  |  |  |
| --- | --- | --- | --- |
| DS | 202 | Writing for Digital Storytelling | 3 |
| DS | 211 | Documentary Film History and Theory | 3 |
| DS | 241 | Filmmaking: Basics of Film Production | 3 |
| DS | 242 | Multicam Production I | 3 |
| DS | 243 | Audio Storytelling | 3 |
| DS | 311 | Introduction to Documentary Filmmaking | 3 |
| DS | 341 | Filmmaking: Creating Short Films II | 3 |
| DS | 342 | Multicam Production II | 3 |
| DS | 343 | Podcasting | 3 |
| DS | 344 | Sound Design for Storytelling | 3 |
| DS | 351 | Producing for Cinema and Television | 3 |
| DS | 409 | Advanced Lighting and Camera Techniques | 3 |
| DS | 411A | Advanced Documentary Filmmaking I (W) | 3 |
| DS | 411B | Advanced Documentary Filmmaking II (W) | 3 |
| DS | 435A | Creating the Fiction Film I | 3 |
| DS | 435B | Creating the Fiction Film II (W) | 3 |
| DS | 440 | Advanced Video Editing | 3 |
| DS | 481 | Indian Film and Media Production | 8 to 12 |
| DS | 492 | Digital Storytelling Special Topics | 3 |
| DS | 492A | Digital Storytelling Special Topics |  |
|  |  | in Animation | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| DS | 492B | Digital Audio Storytelling Special Topics | 3 |
| DS | 492C | Special Topics in Filmmaking | 3 |
| DS | 492D | Special Topics in Multicam Production | 3 |
| FLM | 301 | History of Film after Midcentury | 3 |
| JRN | 206 | Video Storytelling with Phones | 3 |
| JRN | 212 | 2D Animation Storytelling | 3 |
| JRN | 310 | Photojournalism | 3 |
| JRN | 312 | Stop Motion Animation Storytelling (W) | 3 |
| JRN | 412 | Scoring for Moving pictures | 3 |
| JRN | 483 | Photo Communication in Europe | 6 |
| JRN | 486 | British and Irish Mass Media Education |  |
|  |  | Abroad | 6 |
| JRN | 487 | Creative Journey Education Abroad | 6 |
| MI | 337 | Compositing and Special Effects | 3 |

Courses chosen to complete this requirement may not be used to fulfill the requirements of a concentration or minor.

Digital Storytelling majors must complete a minimum of 72 credits in courses outside of the School of Journalism, and mass communication. Digital Storytelling majors may complete up to 48 credits in digital storytelling, journalism, and mass communication areas of study.

Effective Fall 2021.

* + 1. Change the administrative responsibility for the **Minor** in **Documentary Production** in the Department of Media and Information to the School of Journalism.
		2. Change the requirements for the **Minor** in **Documentary Production** in the School of Journalism.
			1. Under the heading **Prerequisite**, delete the following course:

MI 211 Documentary History and Theory 3

Add the following course:

DS 211 Documentary Film History and Theory 3

* + - 1. Under the heading **Requirements for the Documentary Production** replace the entire entry with the following:

The student must complete at least 15 credits from the following:

* + - * 1. The following course (3 credits):

DS 311 Introduction to Documentary Filmmaking 3

* + - * 1. Complete at least 6 credits from one of the following areas:

**Audio/Video**

|  |  |  |  |
| --- | --- | --- | --- |
| DS | 341 | Filmmaking II: Creating Short Films | 3 |
| DS | 344 | Sound Design for Storytelling | 3 |
| DS | 409 | Advanced Lighting and Camera Techniques | 3 |
| DS | 440 | Advanced Video Editing | 3 |
| MI | 337 | Compositing and Special Effects | 3 |
| **Broadcast News** |
| JRN | 306 | Introduction to Radio Podcasting and TV News | 3 |
| JRN | 403 | TV News | 3 |
| JRN | 406 | Advanced TV News Storytelling and Producing | 3 |
| **Film Studies** |
| FLM | 260 | Introduction to Digital Film and Emergent Media | 4 |
| FLM | 334 | Introduction to Screenwriting (W) | 3 |
| FLM | 336 | Aesthetics of Film Editing | 3 |
| FLM | 460 | Seminar in Digital Film and Emergent Media (W) | 3 |
| **Multimedia** |
| JRN | 203 | Visual Storytelling | 3 |
| WRA | 225 | Introduction to Composing Digital for Video | 3 |

3.

Effective Fall 2021.

**Photography**

One of the following, either (1) or (2):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| (1) | JRN | 310 | Photojournalism | 3 |
|  | JRN | 410 | Advanced Photojournalism Documentary | 3 |
| (2) | JRN | 483 | Photo Communication in Europe | 6 |
| **Producing** |
| DS | 351 | Producing for Cinema and Television | 3 |
| JRN | 450 | Media Innovation and Entrepreneurship | 3 |
| MI | 301 | Bringing Media to Market | 3 |
| **Web** |  |  |  |
| JRN | 336 | Designing for Media | 3 |
| JRN | 436 | Designing for the Web and Mobile Devices | 3 |
| MI | 349 | Web Design and Development | 3 |
| **Writing** |  |  |  |
| ENG | 223 | Introduction to Creative Non-Fiction Writing | 3 |
| ENG | 423 | Advanced Creative Non-Fiction Writing | 3 |
| JRN | 300 | Multimedia Writing and Reporting (W) | 3 |
| JRN | 432 | Magazine, Feature and Freelance Writing | 3 |
| The follo DS | wing capstone courses (6 credits):411A Advanced Documentary Filmmaking I (W) | 3 |
| DS | 411B Advanced Documentary Filmmaking II (W) | 3 |

## COLLEGE OF EDUCATION

1. Change the requirements for the **Master of Arts** degree in **Special Education Leadership: Multi-Tiered Systems of Support** in the Department of Counseling, Educational Psychology, and Special Education. The University Committee on Graduate Studies (UCGS) approved this request at its January 11, 2021 meeting.
	1. Under the heading **Requirements for the Master of Arts Degree in Special Education Leadership: Multi-Tiered Systems of Support** make the following changes:
		1. In item 1., delete the following course:

CEP 850 Technology and Literacy for Students with Mild Disabilities 3

Add the following course:

CEP 825 Capstone in Multi-Tiered Systems of Support 3

Effective Fall 2021.

## COLLEGE OF LAW

1. Delete the curriculum and degree requirements for the **Master of Jurisprudence** degree in **American Legal System** in the College of Law. The University Committee on Graduate Studies (UCGS) provided consultative commentary to the Provost after considering this request. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Graduate Studies.

No new students are to be admitted to the program effective Fall 2021. No students are to be readmitted to the program effective Fall 2021. Effective Spring 2022, coding for the program will be discontinued and the program will no longer be available in the College of Law. Students who have not met the requirements for the Master of Jurisprudence Degree in American Legal System through the College of Law prior to Spring 2022 will have to change their major.

## COLLEGE OF NATURAL SCIENCE

1. Change the name for the **Graduate Specialization in Ecology, Evolutionary Biology and Behavior** in the College of Natural Science to **Ecology, Evolution, and Behavior**. The University Committee on Graduate Studies (UCGS) approved this request at its January 11, 2021 meeting.

Students admitted to the specialization prior to Fall 2021 will be awarded a Graduate Specialization in Ecology, Evolutionary Biology and Behavior.

Students admitted to the specialization Fall 2021 and forward will be awarded a Graduate Specialization in Ecology, Evolution, and Behavior.

Effective Fall 2021.

1. Change the name for the **Doctor of Philosophy in Ecology, Evolutionary Biology and Behavior** in the College of Natural Science to **Ecology, Evolution, and Behavior**. The University Committee on Graduate Studies (UCGS) approved this request at its January 11, 2021 meeting.

Students admitted to the major prior to Fall 2021 will be awarded a Doctor of Philosophy Degree in Ecology, Evolutionary Biology and Behavior.

Students admitted to the major Fall 2021 and forward will be awarded a Doctor of Philosophy Degree in Ecology, Evolution, and Behavior.

Effective Fall 2021.

1. Delete the curriculum and degree requirements for the **Bachelor of Science** degree in **Clinical Laboratory Sciences** in the Biomedical Laboratory Diagnostics Program. The University Committee on Undergraduate Education (UCUE) provided consultative commentary to the Provost after considering this request. The Provost made the determination to discontinue the program after considering the consultative commentary from the University Committee on Undergraduate Education.

No new students are to be admitted to the program effective Summer 2018. No students are to be readmitted to the program effective Summer 2018. Effective Spring 2021, coding for the program will be discontinued and the program will no longer be available in the Biomedical Laboratory Diagnostics Program. Students who have not met the requirements for the Bachelor of Science Degree in Clinical Laboratory Sciences through the Biomedical Laboratory Diagnostics Program prior to Spring 2021 will have to change their major.

## COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the **Minor in Latin American and Caribbean Studies** in the College of Social Science.
	1. Under the heading **Minor in Latin American and Caribbean Studies** make the following changes:
		1. In item 2., delete the following course:

PLS 352 Latin American Politics 3

* + 1. In item 3., delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| PRT | 150 | Portuguese for Speakers of Other Romance Languages I | 4 |
| PRT | 250 | Portuguese for Speakers of Other Romance Languages II | 4 |

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| HA | 254 | Latin American Art | 3 |
| PHL | 212 | Latin American Philosophy | 3 |
| PRT | 150 | Intensive Beginning Portuguese | 5 |
| PRT | 250 | Intensive Intermediate Portuguese | 5 |

Effective Fall 2021.

1. Change the requirements for the **Dual Major** in **Environmental Science and Policy** in the College of Social Science. The University Committee on Graduate Studies (UCGS) approved this request at its January 11, 2021 meeting.
	1. Under the heading **Requirements for the Dual Major in Environmental Science and Policy**

replace item 1. with the following:

1. All of the following courses with a minimum grade-point average of 3.0 with no more than one course’s grade below 3.0 in courses used in fulfillment of the requirements for the dual major (12 credits):
	1. The following course (3 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| ESP | 800 | Principles of Environmental Science |  |
|  |  | and Policy | 3 |
| One of the following courses (3 credits): |
| ESP | 801 | Physical, Chemical, and Biological |  |
|  |  | Processes of the Environment | 3 |
| CSUS | 836 | Modeling Natural Resource Systems | 3 |
| ENE | 801 | Dynamics of Environmental Systems | 3 |
| One of the following courses (3 credits): |
| ESP | 802 | Human Systems and Environment | 3 |
| AFRE | 829 | Economics of Environmental Resources | 3 |
| CSUS | 820 | Social-Ecological Resilience | 3 |
| CSUS | 824 | Sustainable Development | 3 |
| SOC | 865 | Environmental Sociology | 3 |
| SOC | 869 | Community and Conservation | 3 |
| One of the following courses (3 credits): |
| ESP | 804 | Environmental Applications and Analysis | 3 |
| FW | 868 | Water Policy and Management | 3 |

b.

c.

d.

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Arts** degree in **Criminal Justice** in the School of Criminal Justice.
	1. Under the heading **Requirements for the Bachelor of Arts Degree in Criminal Justice** make the following changes:
		1. In item 1., paragraph two, delete the Criminal Justice 445 and 485 from the Tier II writing requirement and add Criminal Justice 491.
		2. In item 3. a. (2), add the following course:

CJ 395 Race and Justice 3

* + 1. In item 3. a. (3) make the following changes:
			1. Change the introductory statement to the following: Twelve credits from the following courses including

3 credits in Criminal Justice 424, 427, 430, 465, or 491. At least 9 credits must be at the 400-level.

* + - 1. Delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| CJ | 400H | Honors Study | 1 to 3 |
| CJ | 473 | Comparative Constitutional Law | 3 |

Add the following course:

CJ 493 Undergraduate Research in Criminal

Justice 1 to 3

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Arts** degree in **Economics** in the Department of Economics.
	1. Under the heading **Requirements for the Bachelor of Arts Degree in Economics** make the following changes:
		1. Renumber items 3. e. and 3. f. to 3. f. and 3. g. and add the following item 3. e.: One of the following courses (3 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| MTH | 124 | Survey of Calculus I | 3 |
| MTH | 132 | Calculus I | 3 |
| MTH | 152H | Honors Calculus I | 3 |

The course used to fulfill this requirement may also be used to fulfill the university mathematics requirement.

* + 1. In item 3. f. delete the following course:

STT 441 Probability and Statistics I: Probability 3

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| STT | 351 | Probability and Statistics for Engineering | 3 |
| STT | 442 | Probability and Statistics II: Statistics | 3 |

Delete the note following the course list.

* + 1. In item 3. g. delete the note following the course list.

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Science** degree in **Economics** in the Department of Economics.
	1. Under the heading **Requirements for the Bachelor of Arts Degree in Economics** make the following changes:
		1. In item 3. h. delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| STT | 441 | Probability and Statistics I: Probability | 3 |
| STT | 461 | Computations in Probability and Statistics | 3 |
| STT | 471 | Statistics for Quality and Productivity | 3 |

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| STT | 351 | Probability and Statistics for Engineering | 3 |
| STT | 430 | Introduction to Probability and Statistics | 3 |

* + 1. In item 3. i. make the following changes:
			1. Change the total credits from ‘8’ to ‘7’.
			2. Delete the following course:

MTH 255H Honors Differential Equations 3

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| STT | 441 | Probability and Statistics I: Probability | 3 |
| STT | 461 | Computations in Probability and Statistics | 3 |

* + - 1. In the note following replace ‘CMSE 202’ with ‘CMSE 201’.
		1. Add the following item j.: One of the following courses (3 credits):

MTH 132 Calculus I 3

MTH 152H Honors Calculus I 3

The course used to fulfill this requirement may also be used to fulfill the University mathematics requirement.

Effective Fall 2021.

1. Change the requirements for the **Disciplinary Teaching Minor** in **Early Childhood-General and Special Education** that is available for elementary certification in the Department of Human Development and Family Studies. The Teacher Education Council (TEC) approved this request at its January 18, 2021 meeting.
	1. Under the heading **EARLY CHILDHOOD-GENERAL AND SPECIAL EDUCATION** make the following changes:
		1. Add the following course:

HDFS 322L Interaction and Curriculum for Infants and Toddlers

-Laboratory 1

* + 1. Change the total credits from ‘26’ to ‘27’.

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Science** degree in **Human Development and Family Studies** in the Department of Human Development and Family Studies.
	1. Under the heading **Requirements for the Bachelor of Science Degree in Human Development and Family Studies** add the following item 4.:
		1. Complete a 12 credits in Science, Technology, Engineering, and Mathematics (STEM) courses from the following list of courses: Fulfillment of this requirement also meets the College of Social Science STEM Graduation Requirement for Bachelor of Science Degree. Courses used to fulfill the STEM requirement may not be used to satisfy any other requirement.

|  |  |  |
| --- | --- | --- |
| ANP | 206 | Introduction to Physical Anthropology 3 |
| ANTR | 350 | Human Gross Anatomy for Pre-Health |
|  |  | Professionals | 3 |
| BMB | 200 | Introduction to Biochemistry | 4 |
| BS | 161 | Cell and Molecular Biology | 3 |
| CEM | 141 | General Chemistry | 4 |
| CEM | 143 | Survey of Organic Chemistry | 3 |
| CEM | 251 | Organic Chemistry I | 3 |
| CSUS | 200 | Introduction to Sustainability | 3 |
| ENT | 205 | Pests, Society and Environment | 3 |
| EPI | 390 | Disease in Society: Introduction to |  |

|  |  |  |
| --- | --- | --- |
|  | Epidemiology and Public Health | 4 |
| GEO | 203 | Introduction to Meteorology | 3 |
| GEO | 206 | Physical Geography | 3 |
| HNF | 150 | Introduction to Human Nutrition | 3 |
| LB | 270 | Medical Terminology | 2 |
| MMG | 201 | Fundamentals of Microbiology | 3 |
| MMG | 301 | Introductory Microbiology | 3 |
| MTH | 124 | Survey of Calculus I | 3 |
| MTH | 132 | Calculus I | 3 |
| NUR | 300 | Pathophysiology | 4 |
| PHM | 350 | Introduction to Human Pharmacology | 3 |
| PSL | 250 | Introductory Physiology | 4 |
| PSL | 310 | Physiology for Pre-Health Professionals | 4 |
| STT | 200 | Statistical Methods | 3 |

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Science** degree in **Urban and Regional Planning** in the School of Planning, Design and Construction.
	1. Under the heading **Requirements for the Bachelor of Science Degree in Urban and Regional Planning** make the following changes:
		1. In item 2., add the following:

The Experiential Learning requirement for the College of Social Science is met by completion of UP 494 referenced in item 3.a. below.

The STEM requirement for the College of Social Science is met by completion of 6 credits from 3.c. and 6 credits from 3.d. below.

* + 1. In item 3. a. make the following changes:
			1. Delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| PDC | 120 | Planning and Design Digital Graphics | 2 |
| UP | 494 | Planning Practicum | 4 |

Add the following course:

UP 494 Planning Practicum 6

* + - 1. Change the total credits from ‘37’ to ‘35’.
		1. Add the following item 3. b.:

Complete 12 credits of 300-level or above Urban and Regional Planning electives from a set of approved courses planned in consultation with the program advisor. These credits may not be used to fulfill requirement 3.d. below.

* + 1. Add the following items 3. c. and 3.d.:

c. Complete 6 credits from the following to satisfy the STEM requirement for the College of Social Science:

|  |  |  |  |
| --- | --- | --- | --- |
| ANP | 206 | Introduction to Physical Anthropology | 3 |
| CEM | 141 | General Chemistry | 4 |
| CMSE | 201 | Computational Modeling and Data Analysis I | 4 |
| CMSE | 202 | Computational Modeling and Data Analysis II | 4 |
| CSUS | 200 | Introduction to Sustainability | 3 |
| CSE | 102 | Algorithmic Thinking and Programming | 3 |
| CSE | 231 | Introduction to Programming I | 4 |
| EGR | 100 | Introduction to Engineering Design | 2 |

d.

|  |  |  |  |
| --- | --- | --- | --- |
| EGR | 102 | Introduction to Engineering Modeling | 2 |
| ENT | 205 | Pests, Society and Environment | 3 |
| EPI | 390 | Disease in Society: Introduction to Epidemiology |  |
|  |  | and Public Health | 4 |
| GEO | 203 | Introduction to Meteorology | 3 |
| GEO | 206 | Physical Geography | 3 |
| GEO | 302 | Climates of the World | 3 |
| GLG | 201 | The Dynamic Earth | 4 |
| GLG | 202 | Geology of Michigan | 3 |
| HNF | 150 | Introduction to Human Nutrition | 3 |
| MTH | 124 | Survey of Calculus I | 3 |
| MTH | 132 | Calculus I | 3 |
| PHY | 231 | Introductory Physics I | 3 |
| PHY | 251 | Introductory Physics Laboratory I | 1 |
| STT | 200 | Statistical Methods | 3 |
| STT | 201 | Statistical Methods | 4 |
| Complete 6 credits from the following courses to satisfy the College of Social Science STEM requirement: |
| PDC | 403 | Introduction to Domicology: Sustainable Built |  |
|  |  | Environment | 3 |
| PDC | 491 | Special Topics in Planning, Design and Construction | 1 to 4 |

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Arts** degree in **Psychology** in the Department of Psychology. The University Committee on Undergraduate Education (UCUE) approved this request at their January 7, 2021 meeting.
	1. Under the heading **Requirements for the Bachelor of Arts Degree in Psychology** make the following changes:
		1. In item 1., delete the following statement:

The University’s Mathematics requirement or the College of Social Science STEM requirement may be satisfied by the following, but not both. The completion of Mathematics 103 or equivalent placement score and one of the following courses: Mathematics 101, 102, 112, 114, 124, 132, 152H, 201, Statistics 200 or 201. Mathematics 110 and 116 may also satisfy this requirement.

* + 1. In item 1., under the University Tier II writing requirement, delete ‘PSY 402, PSY 405, PSY 440, and PSY 475’.
		2. In item 3. a., change the requirement to ‘All of the following courses with a minimum grade-point average of 2.00’.
		3. In item 3.c., add the following course:

PSY 238 Developmental Psychology: Lifespan 3

* + 1. In item 3.d., delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| PSY | 402 | Sensation and Perception (W) | 3 |
| PSY | 405 | History of Modern Psychology (W) | 3 |
| PSY | 440 | Attitudes and Social Cognition (W) | 3 |
| PSY | 475 | Personality Theories (W) | 3 |

* + 1. Delete item 4., and replace with the following:

Complete the following mathematics requirement, which will satisfy the university mathematics requirement and departmental requirement:

a. One of the following courses or placement waiver:

b.

|  |  |  |  |
| --- | --- | --- | --- |
| MTH | 103 | College Algebra | 3 |
| MTH | 103B | College Algebra II | 3 |
| One of the following courses: |
| LB | 118 | Calculus I | 4 |
| MTH | 101 | Quantitative Literacy I | 3 |
| MTH | 102 | Quantitative Literacy II | 3 |
| MTH | 114 | Trigonometry | 3 |
| MTH | 116 | College Algebra and Trigonometry | 5 |
| MTH | 124 | Survey of Calculus I | 3 |
| MTH | 132 | Calculus I | 3 |
| MTH | 152H | Honors Calculus I | 3 |
| STT | 200 | Statistical Methods | 3 |
| STT | 201 | Statistical Methods | 4 |

Effective Fall 2021.

1. Change the requirements for the **Bachelor of Science** degree in **Psychology** in the Department of Psychology. The University Committee on Undergraduate Education (UCUE) approved this request at its January 7, 2021.
	1. Under the heading **Requirements for the Bachelor of Arts Degree in Psychology** make the following changes:
		1. In item 1., replace paragraph two with the following statement:

Students who are enrolled in the Psychology major leading to the Bachelor of Science degree in the Department of Psychology may complete an alternative track to Integrative Studies in Biological and Physical Sciences that totals 8 credits and consists of the following courses: (a) one course in Biological Science; (b) one course in Chemistry or one course in Physics (numbered 183 or higher); and (c) laboratory experience in biological or physical science totaling 2 credits.

* + 1. In item 1., under the University Tier II writing requirement, delete ‘PSY 402, PSY 405, PSY 440, and PSY 475’.
		2. In item 3. a., change the requirement to ‘All of the following courses with a minimum grade-point average of 2.00’.
		3. In item 3.c., add the following course:

PSY 238 Developmental Psychology: Lifespan 3

* + 1. In item 3.d., delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| PSY | 402 | Sensation and Perception (W) | 3 |
| PSY | 405 | History of Modern Psychology (W) | 3 |
| PSY | 440 | Attitudes and Social Cognition (W) | 3 |
| PSY | 475 | Personality Theories (W) | 3 |

* + 1. Delete item 4., and replace with the following:

Complete the following mathematics requirement, which will satisfy the university mathematics requirement and departmental requirement:

1. One of the following courses or placement waiver:

MTH 103 College Algebra 3

MTH 103B College Algebra II 3

MTH 116 College Algebra and Trigonometry 5

1. One of the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| LB | 118 | Calculus I | 4 |
| MTH | 124 | Survey of Calculus I | 3 |
| MTH | 132 | Calculus I | 3 |

MTH 152H Honors Calculus I 3

* + 1. Add the following items 5. and 6.:
1. Complete the following NATURAL SCIENCE requirement. These courses may satisfy the university alternative track science requirement or the departmental STEM requirement, but not both.
	1. One of the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| BS | 161 | Cell and Molecular Biology | 3 |
| BS | 181H | Honors Cell and Molecular |  |
|  |  | Biology | 3 |
| LB | 144 | Biology I: Organismal Biology | 3 |
| One of the following courses: |
| CEM | 141 | General Chemistry | 4 |
| CEM | 151 | General and Descriptive Chemistry | 4 |
| CEM | 181H | Honors Chemistry I | 4 |
| LB | 171 | Principles of Chemistry I | 4 |

b.

1. Other Required Courses (15 credits):

Complete a 15 credits in Science, Technology, Engineering, and Mathematics (STEM) courses from the following list of courses: Fulfillment of this requirement also meets the College of Social Science STEM Graduation Requirement for Bachelor of Science Degree.

|  |  |  |  |
| --- | --- | --- | --- |
| ANTR | 350 | Human Gross Anatomy for Pre-Health |  |
|  |  | Professionals | 3 |
| ANTR | 355 | Human Gross Anatomy Laboratory | 1 |
| BLD | 204 | Mechanisms of Disease | 3 |
| BMB | 200 | Introduction to Biochemistry | 4 |
| BS | 161 | Cell and Molecular Biology | 3 |
| BS | 162 | Organismal and Population Biology | 3 |
| BS | 171 | Cell and Molecular Biology Laboratory | 2 |
| BS | 172 | Organismal and Population Biology |  |
|  |  | Laboratory | 2 |
| BS | 181H | Honors Cell and Molecular Biology | 3 |
| BS | 182H | Honors Organismal and Population Biology | 3 |
| BS | 191H | Honors Cell and Molecular Biology Laboratory | 2 |
| BS | 192H | Honors Organismal and Population Biology |  |
|  |  | Laboratory | 2 |
| CEM | 141 | General Chemistry | 4 |
| CEM | 142 | General and Inorganic Chemistry | 3 |
| CEM | 143 | Survey of Organic Chemistry 3 |  |
| CEM | 151 | General and Descriptive Chemistry | 4 |
| CEM | 152 | Principles of Chemistry | 3 |
| CEM | 161 | Chemistry Laboratory I | 1 |
| CEM | 162 | Chemistry Laboratory II | 1 |
| CEM | 181H | Honors Chemistry I | 4 |
| CEM | 182H | Honors Chemistry II | 4 |
| CEM | 185H | Honors Chemistry Laboratory I | 2 |
| CEM | 251 | Organic Chemistry I | 3 |
| CEM | 252 | Organic Chemistry II | 3 |
| CEM | 255 | Organic Chemistry Laboratory | 2 |
| CMSE | 201 | Computational Modeling and Data Analysis I | 4 |
| CMSE | 202 | Computational Modeling and Data Analysis II | 4 |
| CSD | 213 | Anatomy and Physiology of the Speech and |  |
|  |  | Hearing Mechanisms | 3 |
| CSE | 102 | Algorithmic Thinking and Programming | 3 |
| CSE | 231 | Introduction to Programming I | 3 |
| CSE | 232 | Introduction to Programming II | 3 |
| EPI | 390 | Disease in Society: Introduction to |  |
|  |  | Epidemiology and Public Health | 4 |
| HNF | 150 | Introduction to Human Nutrition | 3 |
| HNF | 310 | Nutrition in Medicine for Pre-Health |  |
|  |  | Professionals | 3 |
| HNF | 385 | Public Health Nutrition | 3 |
| IBIO | 150 | Integrating Biology: From DNA to |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Populations | 3 |
| IBIO | 313 | Animal Behavior | 3 |
| IBIO | 320 | Developmental Biology | 4 |
| IBIO | 328 | Comparative Anatomy and Biology of |  |
|  |  | Vertebrates | 4 |
| IBIO | 341 | Fundamental Genetics | 4 |
| IBIO | 365 | Biology of Mammals | 4 |
| KIN | 216 | Applied Human Anatomy | 3 |
| KIN | 217 | Applied Human Anatomy Laboratory | 1 |
| KIN | 330 | Biomechanics of Physical Activity | 3 |
| LB | 117 | Functions and Trigonometry | 4 |
| LB | 118 | Calculus I | 4 |
| LB | 119 | Calculus II | 4 |
| LB | 144 | Biology 1: Organismal Biology | 4 |
| LB | 145 | Biology II: Cellular and Molecular Biology | 5 |
| LB | 155 | Introduction to Quantitative Science and |  |
|  |  | Research | 3 |
| LB | 171 | Principles of Chemistry I | 4 |
| LB | 171L | Introductory Chemistry Laboratory I | 1 |
| LB | 172 | Principles of Chemistry II | 3 |
| LB | 172L | Principles of Chemistry II – Reactivity |  |
|  |  | Laboratory | 1 |
| LB | 270 | Medical Terminology | 2 |
| MTH | 114 | Trigonometry | 3 |
| MTH | 116 | College Algebra and Trigonometry | 5 |
| MTH | 124 | Survey of Calculus I | 3 |
| MTH | 126 | Survey of Calculus II | 3 |
| MTH | 132 | Calculus I | 3 |
| MTH | 133 | Calculus II | 4 |
| MTH | 152H | Honors Calculus I | 3 |
| MTH | 153H | Honors Calculus II | 4 |
| MTH | 234 | Multivariable Calculus | 4 |
| MMG | 141 | Introductory Human Genetics | 3 |
| MMG | 201 | Fundamentals of Microbiology | 3 |
| MMG | 301 | Introductory Microbiology | 3 |
| MMG | 302 | Introductory Laboratory for General |  |
|  |  | and Allied Health Microbiology | 1 |
| NEU | 300 | Neurobiology | 3 |
| NEU | 301 | Introduction to Neuroscience I | 3 |
| NEU | 302 | Introduction to Neuroscience II | 3 |
| PHM | 211 | Pharmacology and Toxicology in Society | 2 |
| PHM | 350 | Introduction to Human Pharmacology | 3 |
| PSL | 250 | Introductory Physiology | 4 |
| PSL | 310 | Physiology for Pre-Health Professionals | 4 |
| STT | 180 | Introduction to Data Science | 4 |
| STT | 200 | Statistical Methods | 3 |
| STT | 201 | Statistical Methods | 4 |
| STT | 231 | Statistics for Scientists | 3 |
| STT | 421 | Statistics I | 3 |
| STT | 422 | Statistics II | 3 |

Effective Fall 2021.

1. Establish a **Minor** in **Migration Studies** in the Department of Sociology. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its October 15, 2020.

### Background Information:

Throughout human history, voluntary migration and involuntary migration have substantially changed societies and all of their constituent units, from the social (i.e., families and communities) to the cultural (i.e., religions and norms) to the economic (i.e., labor markets and industries) to the political (laws and governance structures). This is the case not only for the receiving societies but also for the sending societies. The social sciences have long investigated the drivers, dynamics, and impacts of such human migration. Migration phenomena (i.e., voluntary migration and entrepreneurialism; forced migration; diasporas; human trafficking; refugee crises; statelessness; and borders) are rather central to functioning of contemporary societies, as can be seen in political disputes about borders, humanitarian efforts to protect war-driven asylum seekers, and nongovernmental organizations’ attempts to help climate change refugees. Many opportunities exist for careers that relate to human migration: e.g., social services professionals; economic advisors; legal advocates; researchers; policy-makers; researchers; humanitarian aid workers; law enforcement workers; etc. Further, there are just as many opportunities for advanced study that builds upon undergraduate work on human migration, such as law; medicine; public health; social work; and graduate degrees in many academic disciplines across the social sciences and humanities.

The proposed Minor in Migration Studies will be available to any MSU student enrolled in a bachelor’s degree program. MSU is the land-grant university in Michigan, a state that has long been—and continues to be—shaped by in-migration and out-migration not only between other states in the USA but also between many countries around the world. As such, understanding human migration should be a key focus of MSU’s undergraduate education. Further, as MSU has long been an institutional leader in education abroad and in international research around the world, offering a Minor in Migration Studies may strengthen, if not help synthesize and add value to, these other learning opportunities for MSU undergraduates.

MSU Sociology has achieved excellence in research and graduate studies in three “signature areas”: health and medicine; environment; and migration. We have a critical mass of notable migration scholars, one that rivals that found in most peer institutions. Over the last three years, we have redesigned our undergraduate program to create a concentration in each of the three signature areas for sociology majors and minors to specialize in when completing the required 9 credits of 300-400-level courses.

The Minor in Migration Studies has the following educational objectives: 1) to acquire a basic understanding of voluntary and involuntary migration, the history of U.S. and world migration, and the varying experiences of migrants with consideration to class, race/ethnicity, religion, gender, age, and family factors; 2) to compare and contrast different types of immigrants and their experiences in various contexts; 3) to explore the impact of migration on host societies, countries of origin, and immigrants themselves by social group and generation; 4) to integrate information about specific migrant groups across time and space and from the perspective of a variety of disciplines within broader analytical frameworks on migration to connect global and local processes; and 5) to develop an integrated understanding of the causes and consequences of global migration that is informed by multiple disciplines and perspectives.

### Academic Programs Catalog Text:

The Minor in Migration Studies, which is administered by the Department of Sociology, enhances the education of students who are interested in issues relating to human migration, including those who wish to prepare themselves for advanced degree programs in human migration or careers in related fields.

The minor is available as an elective to students who are enrolled in bachelor’s degree programs at Michigan State University. With the approval of the department and college that administer the student’s degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor’s degree.

Students who plan to complete the requirements of the minor should consult an undergraduate advisor in the College of Social Science.

### Requirements for the Minor in Migration Studies

Students must complete 15 credits from the following courses:

1. The following course (3 credits):

CREDITS

SOC 260 Introduction to Human Migration 3

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

|  |  |  |  |
| --- | --- | --- | --- |
| ANP | 310 | Archaeology of Human Migrations | 3 |
| ANP | 417 | Introduction to Islam in Africa | 3 |
| ANP | 419 | Anthropology of the Middle East | 3 |
| ANP | 437 | Asian Emigrant Communities: A |  |
|  |  | Global Perspective | 3 |
| ANP | 461 | Method and Theory in Historical |  |
|  |  | Archaeology | 3 |
| GEO | 413 | Urban Geography | 3 |
| GEO | 440 | Critical Geopolitics | 3 |
| HST | 260 | Navigations and Encounters in an |  |
|  |  | Age of Discovery | 3 |
| HST | 301 | Indigenous-European Encounters in |  |
|  |  | North America | 3 |
| HST | 363 | East Africa in the Twentieth Century | 3 |
| HST | 366 | Modern Southeast Asia | 3 |
| HST | 383 | The Caribbean | 3 |
| HST | 390 | History of International Relations | 3 |
| Two of the following courses (6 credits): |
| ENG | 351 | Readings in Chicano and Latino Literatures | 3 |
| ENG | 360 | Studies in Postcolonial and Diaspora |  |
|  |  | Literature (W) | 3 |
| ENG | 460 | Seminar in Global and Postcolonial |  |
|  |  | Literature | 3 |
| FLM | 451 | Studies in Postcolonial Cinema | 3 |
| GSAH | 201 | Introduction to Global Studies in the |  |
|  |  | Arts and Humanities | 3 |
| GSAH | 310 | Questions of Justice in Global Contexts | 3 |
| GSAH | 311 | Global Perspectives on Borders and |  |
|  |  | Migration | 3 |

3.

1. The following capstone course (3 credits):

SOC 460 Advanced Seminar in Human Migration 3

Effective Fall 2021.

# PART II - NEW COURSES

## DEPARTMENT OF ANIMAL SCIENCE

ANS 410 Stem Cells in Reproduction and Development

Fall of odd years. 3(3-0) P: (BS 161 and BS 171L) and (ANS 307 or approval of department) RB: (BMB 200 or BMB 401) and ANS 425 Not open to students with credit in ANS 810.

Properties and classification of stem cells; methodology to isolate, culture, and differentiate stem cells; mechanisms underlying stemness and differentiation of stem cells; application of stem cells in agricultural studies, veterinary medicine, and biomedical research.

Effective Fall 2021

ANS 810 Stem Cells in Reproduction and Development

Fall of odd years. 3(3-0) RB: ANS 307 and ANS 425 Not open to students with credit in ANS 410.

Properties and classification of stem cells; methodology to isolate, culture, and differentiate stem cells; mechanisms underlying stemness and differentiation of stem cells; application of stem cells in agricultural studies, veterinary medicine, and biomedical research. Advanced problem solving in agricultural and biomedical research using stem cell technologies. Advanced problem solving in agricultural and biomedical research using stem cell technologies.

Effective Fall 2021

## COLLEGE OF ARTS AND LETTERS

AL 270 Citizen Scholars: Creating Meaningful Impact

Fall of every year. 2(2-0) R: Open to undergraduate students in the College of Arts and Letters. Not open to students with credit in AL 491.

Gateway course for the College of Arts and Letters Citizen Scholars program. Activities will prepare students for a lifetime of social justice, human rights, global awareness, and equity work in the arts and humanities by connecting their academic work with community engagement.

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 2021

## DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE

MSE 880A Atomistic and Quantum Simulations for Materials

On Demand. 3(2-2) RB: MSE 860 or MSE 862 or ME 820 or ME 872 R: Open to graduate students in the College of Engineering.

Modern computational techniques for the prediction of material properties beginning from the quantum electronic structure to the atomistic level. Density functional theory (DFT), molecular dynamics, Monte Carlo, and machine learning.

SA: MSE 880

Effective Fall 2021

MSE 880B Microstructure Evolution

On Demand. 3(2-2) RB: (MSE 860 or MSE 862 or ME 820 or ME 872) or Basic experiences of Matlab or Python programming are strongly recommended. R: Open to graduate students in the College of Engineering.

Modeling mass transport and phase transformation at meso and microscales. Thermodynamics and kinetics of the formation of dendritic, eutectic, spinodal decomposed, and other microstructures from simulations. Monte Carlo, phase field model, and numerical methods.

SA: MSE 880

Effective Fall 2021

MSE 880C Mechanics of Microstructured Materials

On Demand. 3(2-2) RB: MSE 860 or MSE 862 or ME 820 or ME 872 R: Open to graduate students in the College of Engineering.

Modeling methods and computational techniques to predict the mechanics of microstructured materials. Constitutive models to describe single crystal plasticity and techniques to solve mechanics of polycrystalline matter. Simulation tools include discrete dislocation dynamics and finite element methods.

SA: MSE 880

Effective Fall 2021

## DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS

CSD 470 Introduction to Developmental Communication Disorders (W)

Fall of every year. 3(3-0) P: ((CSD 391 or concurrently) or approval of department) and completion of Tier I writing requirement RB: (CSD 364 or concurrently) and (CSD 463 or concurrently) R: Open to students in the Department of Communicative Sciences and Disorders or in the Communicative Sciences and Disorders Minor.

Introduction to the nature, causes, and clinical management of developmental communication disorders.

Effective Fall 2021

CSD 472 Introduction to Acquired Communication Disorders (W)

Spring of every year. 3(3-0) P: ((CSD 391 or concurrently) or approval of department) and completion of Tier I writing requirement RB: (CSD 364 or concurrently) and (CSD 463 or concurrently) R: Open to students in the Department of Communicative Sciences and Disorders or in the Communicative Sciences and Disorders Minor.

Introduction to the nature, causes, and clinical management of acquired communication disorders.

Effective Fall 2021

CSD 905 Doctoral Proseminar in Communicative Sciences and Disorders

On Demand. 3(3-0) RB: PhD Students in CSD in the first 2 years of their program.

Fundamentals of education, research, and academic life with examples from the multidisciplinary field of Communicative Sciences and Disorders. To be taken during the PhD student’s comprehensive examination term.

Request the use of the Pass-No Grade (P-N) system. Effective Fall 2021

## DEPARTMENT OF COUNSELING, EDUCATIONAL PSYCHOLOGY, AND SPECIAL EDUCATION

CEP 825 Capstone in Multi-Tiered Systems of Support

Spring of every year. 3(3-0) P: CEP 809 RB: Enrollees should be currently employed by a school (any grade kindergarten through 12th grade) or have a relationship with a school that allows for access to group level data. R: Open to graduate students in the Special Education Leadership: Multi-Tiered Systems of Support Major.

Leadership roles in schools for MTSS. Program evaluation for MTSS components. Focus on utility of MTSS assessment, intervention programming, and disproportionality. Course project to demonstrate leadership in MTSS.

Effective Spring 2022

## SCHOOL OF CRIMINAL JUSTICE

CJ 395 Race, Crime and Justice

Fall of every year. Spring of every year. 3(3-0) P: CJ 110 R: Open to juniors or seniors in the Criminal Justice Major.

How race and ethnicity shapes crime, victimization, ones’ interaction with the criminal justice system, and criminal justice decision making. Crime rates in theoretical and historical context.

Effective Fall 2021

CJ 857 Criminal Justice Behavior and Ethics

Spring of every year. 3(3-0) R: Open to master's students in the Criminal Justice Major or in the Law Enforcement Intelligence and Analysis Major.

Exploration of ethical considerations and dilemmas. Moral, legal and normative obligations of the state and criminal justice professionals. Philosophies and theories of ethics and deviance.

Effective Fall 2021

CJ 878 Economic Cybercrime and Fraud

Fall of every year. 3(3-0) R: Open to master's students in the School of Criminal Justice or approval of department.

Role of technology and the Internet in financial crimes. Evolution of electronic payment fraud, laws available in the U.S. and internationally. Role of industry in regulating financial transactions.

Effective Fall 2021

CJ 879 Interpersonal Cybercrime

Spring of every year. 3(3-0) R: Open to master's students in the School of Criminal Justice or approval of department.

Problem of cybercrimes use of technology to cause physical or emotional harm. Relationships between cybercrime and criminal behavior. Policy implications and strategies. Examination of offense types, including sexual offenses, child sexual exploitation, harassment, stalking, and hate crimes.

Effective Fall 2021

CJ 881 Legislative and Policy Responses to Cybercrime

Spring of every year. 3(3-0) R: Open to master's students in the School of Criminal Justice or approval of department.

Legal system in the U.S. and other nations about cybercrime and cyberwarfare. Role of Internet Service Providers and tech companies. Regulations of social media and user generated content.

Effective Fall 2021

CJ 882 Analysis of Contemporary Cyberthreats

Spring of every year. 3(3-0) R: Open to master's students in the School of Criminal Justice

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Capstone. Cybersecurity issues regarding individuals, industry, and governments. Individuals, groups, organized crime, terrorists, and nation states. Mitigation strategies. Identification of intervention points.

Effective Fall 2021

CJ 889 Fundamentals of Basic and Translational Research

Fall of every year. 3(3-0) R: Open to master's students in the Criminal Justice Major or in the Law Enforcement Intelligence and Analysis Major. Not open to students with credit in CJ 811 or CJ 887.

Methods and techniques of criminal justice research and evaluation, including survey methods, systematic observation, analysis of existing data, experimentation, and introduction to evaluation design. Ethical issues in research design and procedures. Effective Fall 2021

## DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ECE 424 Electrical Drives

Fall of every year. 3(3-0) P: ECE 313 and ECE 320 R: Open to juniors or seniors in the College of Engineering.

Modeling AC motors. Reference frame theory for control of AC motors. Vector control. Pulse width modulation inverter. Sensorless control.

Effective Fall 2021

ECE 434 Autonomous Vehicles

Fall of every year. 3(2-2) Interdepartmental with Computer Science and Engineering. P: ECE 331 or CSE 331 RB: Proficiency in Python programming strongly recommended, equivalent to a one- semester Python class. R: Open to juniors or seniors in the College of Engineering.

Overview of technologies vehicles including sensors, sensing algorithms, machine learning, localization, mapping, object detection, tracking, communication and security. Hands-on implementation of robotic sensing and navigation algorithms on both simulated and physical mobile platforms.

Effective Fall 2021

## DEPARTMENT OF FAMILY MEDICINE

FM 615 Addiction Medicine

Fall of every year. Spring of every year. Summer of every year. 3 credits. P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.

Overview of addiction medicine including training in medication assisted therapy for opioid use disorder, safer medication prescribing for pain management, and prevention and treatment of overuse disorder of multiple substances.

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 2020

## DEPARTMENT OF FINANCE

FI 830 Introduction to Financial Planning and Wealth Management

Fall of every year. Spring of every year. 3(3-0) P: FI 801 R: Open to students. Not open to students with credit in FI 370.

Techniques used to develop and implement comprehensive plans to achieve a person’s overall financial objectives. Budgeting, debt management, investing, tax planning, risk management, employee benefits, retirement planning, and estate planning.

Effective Spring 2021

FI 832 Principles of Insurance and Risk Management

Fall of every year. Spring of every year. 3(3-0) P: FI 801 Not open to students with credit in FI 380.

Techniques for measuring and managing risk. Pure risks related to mortality, health- related expenses, property damage, and product liability. Management techniques studied include risk assumption, prevention, diversification, and transfer via insurance and non- insurance market mechanisms.

Effective Spring 2021

FI 836 Estate and Income Tax Planning

Fall of every year. Spring of every year. 3(3-0) P: FI 801 Not open to students with credit in FI 480.

Issues in estate planning and income tax planning for the financial planner and wealth management advisor.

Effective Spring 2021

FI 838 Advanced Financial Planning and Wealth Management

Fall of every year. Spring of every year. 3(3-0) P: FI 801 and FI 830 and FI 832 and FI 836 Not open to students with credit in FI 470.

Advanced retirement planning, client management, planning tools and software applications. Case-based capstone course resulting in the creation of a comprehensive financial plan.

Effective Spring 2021

## DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

GEO 401 Global Plant Geography

Fall of odd years. 3(3-0) P: GEO 201 or FOR 101 or FOR 204 or PLB 218 or IBIO 355 or approval of department R: Not open to freshmen.

REINSTATEMENT Patterns of global plant distributions. Plant-atmosphere interactions, ecological processes, biogeographic patterns and predictive models of plant distributions.

Effective Fall 2021

## COLLEGE OF HUMAN MEDICINE

HM 628 Racism and Other Health Disparities

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

Provide an understanding of the magnitude of health disparities, particularly those that are perpetuated by systems inequity, racism, and discrimination.

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 2020

## SCHOOL OF JOURNALISM

DS 103 Media History

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

Historical background in media theory, production and distribution, and how it relates to society, culture and the overall media landscape.

Effective Summer 2021

DS 113 Story, Sound and Motion II

Fall of every year. Spring of every year. Summer of every year. 3(2-2) P: CAS 112

Advanced media communication through storytelling, sound design, editing and directing. Effective Summer 2021

DS 202 Writing for Digital Storytelling

Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: CAS 112

Introduction to various types of media writing: performance, creative non-fiction and fiction screenwriting. Learn live storytelling, character development, creating context through world building, working with theme, conflict and identifying tone.

Effective Summer 2021

DS 342 Multicam Production II

Fall of every year. Spring of every year. 3(2-2) P: DS 113 and DS 242 R: Open to students in the School of Journalism or in the Department of Media and Information.

Hands-on, intensive experience in multi-camera television production. Longer form and more complex live directing theory and execution; multi-camera equipment and more complex technique. Multicam producing and content development. Participating in and leading a production team.

Effective Summer 2021

DS 343 Podcasting

Fall of every year. Spring of every year. 3(2-2) P: DS 243 R: Open to students in the School of Journalism or in the Department of Media and Information.

Advanced audio production specializing in podcast techniques. Industry focus on advanced audio storytelling and distribution.

Effective Summer 2021

DS 442A Multicam Production for Arts (W)

Fall of every year. Spring of every year. 3(2-2) P: (DS 342) and Completion of Tier I Writing Requirement

Hands-on, intensive experience in multi-camera television production. Professional, venue length program creation in one of three areas (A Arts, B Sports, C News) and complex live directing theory and execution. Multi-camera studio equipment and complex technique.

Multicam producing and content development. Participating in and leading a production team.

Effective Summer 2021

DS 442B Multicam Production for Sports (W)

Fall of every year. Spring of every year. 3(2-2) P: (DS 342) and Completion of Tier I Writing Requirement

Produce live sporting events, halftime features, pregame and post-game analysis and other sports related content. Emphasis on technical perspective. Sportscast directing, technical directing, graphics, audio, cameras, video playback/replay, chroma key, remote live feed intake, editing, and creative camera shots. Announcing and sideline reporting.

Effective Summer 2021

DS 442C Multicam Production for News (W)

Fall of every year. Spring of every year. 3(2-2) P: (DS 342) and Completion of Tier I Writing Requirement

Studio production for various news programs. Newscast directing, technical directing, floor directing, graphics, audio, cameras, video playback, teleprompter, chroma key, remote live feed intake, editing, set design, lighting, and creative camera shots. News programs include newscasts, interview programs, remote live events; programming MSU-TV. Effective Summer 2021

DS 481 Indian Film and Media Production

Summer of every year. 8 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

Education abroad in India. Production experiences focused on understanding of culture and exploration of the creative world.

Effective Summer 2021

DS 490 Independent Study

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

Supervised individual study in an area of Digital Storytelling Effective Summer 2021

DS 492 Digital Storytelling Special Topics

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to students in the Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and Information Major.

Various issues, skills or themes relating to Digital Storytelling. Effective Summer 2021

DS 492A Digital Storytelling Special Topics in Animation

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to students in the Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and Information Major.

Various issues, skills or themes relating to Animation and Digital Storytelling. Effective Summer 2021

DS 492B Digital Storytelling Special Topics in Audio

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to students in the Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and Information Major.

Various issues, skills or themes relating to digital audio storytelling. Effective Summer 2021

DS 492C Digital Storytelling Special Topics in Filmmaking

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to students in the Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and Information Major.

Various issues, skills or themes relating to filmmaking. Effective Summer 2021

DS 492D Digital Storytelling Special Topics in Multicam Production

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to students in the Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and Information Major.

Various issues, skills or themes relating to Multicam Production. Effective Summer 2021

DS 493 Digital Storytelling Professional Field Experience

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to students in the School of Journalism or in the Department of Media and Information. Approval of school; application required.

Supervised field experience at a professional digital storytelling organization. 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 2021

## DEPARTMENT OF KINESIOLOGY

KIN 945 Latent Variable Modeling in Sport and Exercise Psychology

Spring of odd years. 3(3-0) P: CEP 934 or approval of department RB: Introductory and intermediate courses in applied statistics. R: Open to doctoral students in the Department of Kinesiology. Approval of department.

Applied statistics within the latent variable modeling framework as applied to data relevant to psycho-social aspects of sport and physical activity.

Effective Spring 2021

## MSU COLLEGE OF LAW

LAW 541N Law and Gender

Fall of every year. 0 to 6 credits. R: Open to students in the MSU College of Law.

REINSTATEMENT Theoretical and legal issues associated with gender.

SA: DCL 386

Effective Spring 2021

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

GRM 291 Special Topics in Intermediate German

Fall of every year. Spring of every year. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: (GRM 101 and GRM 102 or approval of department) or designated score on German Placement test

Special topics supplementing regular course offerings for students transitioning to 300- level German courses or those taking German as electives.

Request the use of the Pass-No Grade (P-N) system. Effective Fall 2021

## COLLEGE OF MUSIC

MUS 448 Advanced Keyboard Methods and Literature I

Fall of odd years. 2(2-0) RB: MUS 347 R: Open to students in the College of Music.

REINSTATEMENT Advanced piano literature for private lessons and classrooms.

Effective Fall 2021

MUS 882 Composition with Computers

Fall of odd years. 2(2-1) R: Open to graduate students in the College of Music.

REINSTATEMENT Current applications of microcomputers in musical composition.

Effective Fall 2021

## PROGRAM IN NEUROSCIENCE

NEU 450 The Autonomic Nervous System

Fall of every year. 3(3-0) P: (NEU 301) and ((PSL 310 or concurrently) or (PSL 431 or concurrently)) R: Open to undergraduate students in the Neuroscience Major.

Examination of the functional anatomy and physiology of the three autonomic nervous systems (enteric; parasympathetic; sympathetic)

Effective Fall 2021

NEU 460 Current Approaches in Molecular and Cellular Neuroscience

Spring of every year. 3(3-0) P: (NEU 301) and ((PSL 310 or concurrently) or (PSL 431 or concurrently)) R: Open to undergraduate students in the Neuroscience Major.

Investigation of the molecular and cellular pathways that allow neurons to connect and communicate, including the latest tools and technologies used to understand how complex molecular machinery within neuronal membranes interact with electrical potentials.

Effective Spring 2022

## SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

PDC 803 Advanced Domicology: Sustainable Built Environment

Fall of every year. Spring of every year. Summer of every year. 3(3-0) RB: A previous degree or experience in urban planning, construction management, or real estate development is helpful, but not required. R: Open to graduate students or lifelong graduate students.

Advanced study of the lifecycle of structures. Causes and impacts of structural abandonment, and sustainable tools, policies, and practices to address it. Faculty- guided/student-led research and outreach on a selected Domicology topic.

Effective Summer 2020

PDC 853 Real Estate Finance and Commercial Development

Fall of every year. Spring of every year. Summer of every year. 3(3-0) RB: A bachelor’s degree and work experience relating to the built environment R: Open to graduate students or lifelong graduate students.

Essential real estate finance concepts, tools and performance metrics to build complete project pro formas. Commercial, mixed-use development team projects.

Effective Summer 2020

PDC 858 Land Use Planning and Housing

Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to graduate students or lifelong graduate students.

Relationship between housing, society, and the economy. Land use planning tools and process. Impact of land use planning on housing development. Housing design, development process, and performance metrics.

Effective Summer 2020

PDC 859 Construction Management and Real Estate Case Studies

Fall of every year. Spring of every year. Summer of every year. 3(3-0) RB: A bachelor’s degree and work experience relating to the built environment R: Open to graduate students or lifelong graduate students.

Construction management concepts and practices related to real estate development projects, followed by a series of real estate development case studies covering multiple types of projects.

Effective Summer 2020

PDC 878 Redevelopment and the Climate Resilient City

Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to graduate students or lifelong graduate students. Not open to students with credit in UP 488.

Connection between federal, state and local policies in the practice of urban resilient redevelopment. Best practice techniques for land redevelopment and climate change adaptation for planning, design and construction professionals.

Effective Summer 2020

## DEPARTMENT OF PSYCHIATRY

PSC 592 Happiness and Emotional Resilience for Health Care Providers Spring of every year. 1(1-0) R: Approval of department.

Applied topics for well-being with interactive exercises. Effective Summer 2020

## DEPARTMENT OF RELIGIOUS STUDIES

GNL 821 Values and Ethics in Applied Leadership

Spring of every year. 2(2-0)

Values and ethics in organizational leadership. Development and continuity of models of ethical leadership in nonprofit context. Values, ethics, and leadership in theory and practice in case studies.

Effective Fall 2021

GNL 822 Cross Cultural Dialogue and Collaboration Fall of every year. 2(2-0)

* + Examines modes of dialogue across human cultures, including models of inter-religious understanding.

Effective Fall 2021

GNL 823 Social Entrepreneurship, Innovation, and Religion Fall of every year. Summer of every year. 2(2-0)

Social entrepreneurship and enterprise in the U.S. and internationally in a religious context. Development and continuity of social enterprises in the context of nonprofit religious organizations and leadership.

Effective Fall 2021

GNL 824 Social Entrepreneurship and Religion: Case Studies Fall of every year. Summer of every year. 2(2-0)

Case studies in entrepreneurship in a religious context. Innovation in theory and practice with case studies. Social entrepreneurship and enterprise in the U.S. and internationally. Development and continuity of social enterprises in the context of nonprofit religious organizations and leadership.

Effective Fall 2021

GNL 825 Creativity in Organizations Fall of every year. 2(2-0)

Creativity to maximize resources and engage with complex social problems. Exploration of innovation and creative solutions to expand both social impact and organizational management.

Effective Fall 2021

GNL 826 Flourishing Under Stress Fall of every year. 2(2-0)

Strategies for personal and collective development and thriving in a stressful work environment. Secular techniques for development and continuity of guiding values in challenging environments. Methods for personal and collaborative renewal. Nonprofit leadership and stress management.

Effective Fall 2021

GNL 827 Nonprofit Institutions and Civil Society in a Global Context Spring of every year. 2(2-0)

Engaging in comparative analysis of nonprofit institutions that make up global civil society. Various theories of how socio-economic forces cause the formation of non-state, non- business organizations to exist. Examine research, data and working papers that underlie criteria for identifying and describing nonprofit institutions and civil society in any country. Effective Fall 2021

GNL 828 Nonprofit Governance Spring of every year. 2(2-0)

Examine governance and strategic leadership of nonprofit organizations. Gain an understanding of the legal and regulatory environment for the charitable nonprofit in the United States and the governance practices of the board and executive staff which provides leadership of the organization. Examine how organizational direction, policy and strategy can be optimized and what meaningful oversight and monitoring of performance looks like.

Effective Fall 2021

GNL 829 Nonprofits and the Legal Environment

Fall of every year. 2(2-0)

Nonprofit and NGO national and international legal contexts. Nonprofit legal responsibilities and challenges in global religious and cultural contexts. Nonprofit legal and regulatory environments both national and international. Religious and cultural complications in a legal context.

Effective Fall 2021

GNL 830 Nonprofit and NGO Marketing and Fundraising Spring of every year. 2(2-0)

Nonprofit development. Nonprofit and NGO marketing and fundraising in national and international contexts. Strategies and approaches to marketing, fundraising and developmental issues and initiatives.

Effective Fall 2021

GNL 831 Grant-writing for Nonprofits Fall of every year. 2(2-0)

Specific legal and practical requirements and limitations connected to grants and nonprofits. Concrete tools and methods for both applying key funding research tools and recognizing factors contributing to successful funding efforts, including how grant narrative elements can influence funders’ decisions.

Effective Fall 2021

GNL 890 Independent Study

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 15 credits in all enrollments for this course.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

Effective Fall 2021

GNL 891 Special Topics in Nonprofit Leadership, Global Cultures, and Social Enterprise

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 15 credits in all enrollments for this course.

Special topics supplementing regular course offerings proposed by faculty for graduate students on a group study basis.

Effective Fall 2021

GNL 899 Master's Thesis Research

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 15 credits in all enrollments for this course.

Master's thesis research. Effective Fall 2021

REL 817 Religion, Cultural Knowledge, and Nonprofits Fall of every year. 2(2-0)

Religious and cultural dimensions of the philanthropic sector in the U.S. and internationally. Development and continuity of nonprofits in global civil society. Charitable organizations in theory and practice with case studies.

Effective Fall 2021

REL 818 Global Religions, NGOs, and Social Change Spring of every year. 2(2-0)

Examines the role of faith-based organizations in the international non-profit landscape. Effective Fall 2021

REL 819 Religious Organizations and Civil Society in Asia Spring of every year. 2(2-0)

Critical approach to taxonomies of religion and society. Religion beyond the world religions paradigm. Religious institutions and organizational structures in South and East Asia. Case studies in India and Taiwan.

Effective Fall 2021

REL 820 Secularisms, Publics, and Religions in Asia Spring of every year. 2(2-0)

Critical approaches to secularism as a concept and its usage in South and East Asia. Religion as institutional belonging vs. pervasive cultural force, makeup of publics and constituencies in modern South and East Asia. New movements of values in Asian societies, positions of transnational religions in Asia. Operative fields and public audiences for voluntary organizations.

Effective Fall 2021

## DEPARTMENT OF ROMANCE AND CLASSICAL STUDIES

GRK 102 Elementary Classical Greek II

Spring of odd years. 4(4-0) P: GRK 101

REINSTATEMENT Fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.

Effective Fall 2021

ITL 250 Topics in Italian Cultures for English Speakers

Summer of every year. 3(3-0) A student may earn a maximum of 3 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement

Analyze diverse forms of culture from Italy and from other countries where Italian is spoken. Read and discuss written and audiovisual materials such as Italian newspapers, films, and TV, among others. Course is conducted in English, but some primary materials are in Italian. Basic introduction in Italian to understand primary materials.

Effective Summer 2021

## DEPARTMENT OF SOCIOLOGY

SOC 260 Introduction to Human Migration

Fall of every year. Spring of every year. 3(3-0) RB: SOC 100 or concurrently

Introduction to the sociological study of human migration. Historical contexts, foundational concepts, and contemporary issues and policies related to migration.

Effective Fall 2020

SOC 360 Migration and Social Change

Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement RB: (SOC 100 or concurrently) and SOC 260 or concurrently

Survey of contemporary theory and research on migration and social change. Effective Spring 2020

SOC 460 Advanced Seminar in Human Migration

Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement RB: (SOC 100 or concurrently) or SOC 260 or concurrently

Advanced study in a specialized topic related to the sociological study of human migration. Effective Fall 2020

# PART III – COURSE CHANGES

## COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

ESP 804 Environmental Applications and Analysis

Fall of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. ~~P~~: ~~ES~~P ~~80~~1 and ~~(ES~~P ~~80~~2 ~~o~~r concurrently) and ~~ES~~P ~~80~~3 or approv~~a~~l ~~o~~f department P: ESP 800 or approval of department RB: Bachelors or Masters in appropriate discipline for specialization.

Global, regional, and local environmental issues. Systems approach to identify and solve environmental problems.

SA: SSC 806

~~Effectiv~~e Fa~~l~~l 2019 Effective Fall 2021

ESP 850 Introduction to Environmental and Social Systems Modeling Fa~~l~~l ~~o~~f every year. Fall of odd years. 1(1-0)

Theoretical background of diverse modeling problems in complex environmental systems. Diverse modeling approaches to most appropriate modeling tools in a variety of contexts. ~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

ESP 890 Modeling Environmental and Social Systems Fa~~l~~l ~~o~~f every year. Fall of odd years. 2(2-0)

Modeling project of real-world environmental problems. Theories and methodologies from previous modeling courses to practical policy problems. Applied project with a variety of modeling tools and a trans-disciplinary synthesis. Model development, implementation, and evaluation in student groups.

~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

## DEPARTMENT OF ADVERTISING AND PUBLIC RELATIONS

ADV 334 International Advertising

Fall of every year. Spring of every year. 3(3-0) RB: ADV 375 R: Open to juniors or seniors in the Advertising major or approval of department.

Advertising decisions and consumer behavior. Political systems, literacy rates, new technologies, consumer behavior, and culture. Decision making, strategy, media selection, creative execution and campaign evaluation.

SA: ADV 470

~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

ADV 456 I~~nteractiv~~e Adverti~~sin~~g Manage~~men~~t Strategy Interactive Advertising Strategy

Fall of every year. Spring of every year. 3(3-0) P: ADV 330 or ADV 350 R: Open to students in the Department of Advertising and Public Relations.

Theory and practice of interactive advertising, e-commerce, Internet advertising, online sales promotion, online public relations, virtual communities, and Internet research. Role of strategy in implementing interactive solutions.

~~Effectiv~~e ~~Summe~~r 2017 Effective Fall 2021

## DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

BMB 514 Medical Biochemistry

Fall of every year. 3 credits. R: Open only to students in the College of Human Medicine and the College of Osteopathic Medicine. Not open to students with credit in BMB 521.

Basic biochemical principles and terminology; metabolism and function of biomolecules of importance in medical biology and human pathophysiology.

Request the use of the Pass-No Grade (P-N) system. SA: BCH 514

DELETE COURSE

Effective Fall 2020

BMB 515 Medical Biochemistry and Molecular Biology

Fall of every year. 2(2-0) R: Open to graduate-professional students in the College of Osteopathic Medicine.

Basic biochemical principles and terminology. Overview of metabolism of biomolecules of importance to medical biology and human pathophysiology.

Request the use of the Pass-No Grade (P-N) system. DELETE COURSE

Effective Fall 2020

BMB 527 Medical Genetics

Fall of every year. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine.

Basic principles of human medical genetics. Storage and expression of genetic information. Transmission of genetic information to progeny.

Request the use of the Pass-No Grade (P-N) system. DELETE COURSE

Effective Fall 2020

## DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE

CHE 201 Material and Energy Balances

Fall of every year. Spring of every year. 3(4-0) ~~P~~: (MTH ~~13~~3 ~~o~~r MTH ~~153~~H ~~o~~r ~~L~~B ~~119~~) a~~n~~d (CEM ~~14~~2 ~~o~~r ~~CE~~M 152 ~~o~~r ~~L~~B ~~172~~) a~~n~~d ((C~~S~~E 131 ~~o~~r concurrently) ~~o~~r (CSE ~~23~~1 ~~o~~r concurrently) ~~o~~r (EGR ~~10~~2 ~~o~~r concurrently)) P: (MTH 133 or MTH 153H or LB 119) and (CEM 142 or CEM 152 or LB 172) and ((CSE 231 or concurrently) or (EGR 102 or concurrently))

Chemical engineering calculations. Synthesis of chemical process systems. Analysis of chemical processes using material and energy balances. Enthalpy calculations for changes in temperature, phase transitions, and chemical reactions.

~~Effectiv~~e Spring 2014 Effective Spring 2021

MSE 880 Computational Materials Science

Spring of every year. 3(2-2) RB: MSE 860 or MSE 862 or MSE 964A or ME 820 or ME 872 R: Open to graduate students in the College of Engineering.

Modeling methods and computational techniques for predicting materials properties. Multi- scale simulation in different material classes. Techniques include density functional theory, molecular statics and dynamics, discrete dislocation dynamics, continuum crystal plasticity.

DELETE COURSE

Effective Summer 2021

## DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS

CSD 303 Fundam~~ental~~s ~~o~~f Hearing

Fundamentals of Hearing and Audiometry

Fall of every year. 3(3-0) P: CSD 213 or concurrently RB: Completion of one ISP course. Completion of the University mathematics requirement.

Physical and psychological aspects of hearing. Measurement of hearing thresholds. Binaural hearing.

SA: ASC 303, ASC 255

~~Effectiv~~e Fa~~l~~l 2016 Effective Fall 2021

CSD 333 O~~ra~~l Langua~~g~~e Development

Language Development

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

Development of receptive and expressive aspects of child language. SA: ASC 333

~~Effectiv~~e Fa~~l~~l 2016 Effective Fall 2021

CSD 364 Speech and Langu~~ag~~e Disord~~er~~s ~~an~~d their Evaluation Evaluation Procedures in Speech-Language Pathology

Spring of every year. 3(3-0) P: CSD 313 R: Open to undergraduate students in the Department of Communicative Sciences and Disorders or in the Communicative Sciences and Disorders Minor.

Evaluation procedures in speech-language pathology. Testing. Analysis of results. Report writing.

SA: ASC 364

~~Effectiv~~e Spring 2017 Effective Fall 2021

CSD 391 Observation and Analys~~i~~s ~~o~~f Clinic~~a~~l Practice Clinical Methods in Communication Disorders

~~Fal~~l ~~o~~f ~~ever~~y year. Spring of every year. 1(0-2) 3(3-0) P: CSD 303 and CSD 313 and CSD 333 R: Open to undergraduate students in the Department of Communicative Sciences and Disorders or in the Communicative Sciences and Disorders Minor.

~~Cas~~e presentat~~ions~~. Interviewi~~n~~g ~~techniques~~. Behav~~iora~~l observation ~~an~~d da~~t~~a collection. Behav~~io~~r ~~management~~. Couns~~eling~~. S~~essio~~n ~~pla~~n ~~an~~d ~~repor~~t writing. Clinical methods utilized by speech-language pathologists and audiologists, including: interviewing techniques, behavioral observation and data collection, behavior management, counseling, and session plan and report writing.

Requ~~es~~t ~~th~~e use ~~o~~f ~~th~~e Pa~~ss-N~~o ~~Grad~~e (P-N) system. SA: ASC 394

~~Effectiv~~e Fa~~l~~l 2015 Effective Fall 2021

CSD 444 Audiolog~~i~~c Assessment and Intervention/Rehabilitation Clinical Procedures in Audiology and Aural Rehabilitation

Spring of every year. 3(3-0) P: CSD 303 R: Open to undergraduate students in the Department of Communicative Sciences and Disorders or in the Communicative Sciences and Disorders Minor.

Clin~~ica~~l procedu~~re~~s ~~i~~n audiology. Clinical procedures in audiology. Aural rehabilitation procedures for individuals who are deaf or hard of hearing.

SA: ASC 443

~~Effectiv~~e Spring 2017 Effective Fall 2021

CSD 463 Intervention/Rehabilitati~~o~~n Procedur~~e~~s ~~i~~n Speech-Language Pathology Intervention Procedures in Speech-Language Pathology

Spring of every year. 3(3-0) P: CSD 313 R: Open to undergraduate students in the Department of Communicative Sciences and Disorders or in the Communicative Sciences and Disorders Minor.

Intervention and rehabili~~tatio~~n proce~~dure~~s ~~fo~~r individu~~al~~s with developmen~~ta~~l ~~an~~d acquired communica~~tio~~n disorders. Intervention procedures for individuals with developmental and acquired communication disorders.

SA: ASC 463

~~Effectiv~~e Spring 2017 Effective Fall 2021

CSD 820 Language Assessment and Intervention: Early Stages Spring of every year. 3(3-0)

Nature, characteristics, evaluation, assessment, diagnosis, and intervention for children with developmental language and related disorders from infancy through preschool DELETE COURSE

Effective Summer 2020

CSD 821 Language Assessment and Intervention: Later Stages

Fall of every year. 3(3-0) P: CSD 820 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 from early school years through adolescence

SA: CSD 823G DELETE COURSE

Effective Summer 2020

## DEPARTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE, AND ENGINEERING

CMSE 401 Methods for Parallel Computing

Spring of odd years. 4(4-0) P: ~~(CMS~~E ~~20~~2 and ~~CS~~E ~~232~~) and (MTH ~~23~~5 ~~o~~r MTH ~~34~~0 ~~o~~r MTH 347H) P: (CMSE 202 and CSE 232) and (MTH 126 or MTH 133 or MTH 153H or LB 119) Not open to students with credit in CSE 415.

Core principles, techniques, and use of parallel computation using modern supercomputers. Parallel architectures and programming models. Message-passing and threaded programming. Principles of parallel algorithm design. Performance analysis and optimization.

~~Effectiv~~e Fa~~l~~l 2019 Effective Fall 2021

CMSE 411 Computational Medicine

Fa~~l~~l ~~o~~f ~~od~~d years. Fall of even years. 3(3-0) Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics. P: (CMSE 201 and LB 144 and LB 145) or (CMSE 201 and BS 161 and BS 162) or (CMSE 201 and BS 181H and BS 182H)

Computational approaches in biology with a focus on medicine. ~~Effectiv~~e Fa~~l~~l 2019 Effective Fall 2021

## DEPARTMENT OF COUNSELING, EDUCATIONAL PSYCHOLOGY, AND SPECIAL EDUCATION

CEP 801A Collaboration and Consultation in Special Education

Fall of every year. Spring of every year. 3(2-3) 3(3-2) ~~RB~~: TE ~~40~~1 ~~o~~r ~~CE~~P 840 RB: CEP 840 R: Open to students in the Special Education-Learning Disabilities Major and open to graduate students in the Special Education Major and open to graduate students in the Education Major. C: ~~CE~~P ~~804~~A concurrently and ~~CE~~P ~~502~~A concurrently.

Professional and ethical responsibilities. Models and methods of collaboration with teachers, parents, and community agencies to foster learning for students with disabilities. Advocacy for students with disabilities in school and community settings.

~~Effectiv~~e ~~Summe~~r 2012 Effective Fall 2021

CEP 802A Reflection and Inquiry in Teaching Special Education I: Mild Impairment

Fall of every year. Spring of every year. 3(2-3) 3(3-2) RB: (CEP 301) and Admission to the teacher certification program in learning disabilities. ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~o~~r educational specialists ~~o~~r doctoral ~~student~~s ~~i~~n ~~th~~e Sc~~hoo~~l Psychology major ~~o~~r ~~i~~n the S~~pecia~~l Educ~~atio~~n major. R: Open to master's students or educational specialist or doctoral students in the School Psychology Major or in the Special Education Major and open to graduate students in the Special Education Leadership: Multi-Tiered Systems of Support Major and open to graduate students in the Educational Technology Major. ~~C~~: TE ~~50~~1 concurrently.

Qualitative and quantitative research methods on teaching and learning of students with emotional or learning impairments. Framing educational problems in special education. Designing and assessing studies of mathematics and problem-solving.

~~Effectiv~~e ~~Summe~~r 2012 Effective Fall 2021

CEP 850 Technology and Literacy ~~fo~~r St~~udent~~s wi~~t~~h Mild Disabilities Technology for Students with Disabilities

Spring of every year. Summer ~~o~~f every year. 3(3-0) ~~P~~: ~~CE~~P 840 R: Open to graduate students in the Special Education Major and open to master's students in the Education Major.

~~Us~~e ~~o~~f ~~technolog~~y to improve literacy lear~~nin~~g ~~an~~d ~~performanc~~e ~~fo~~r students wi~~t~~h mild disabilities. Use of assistive technology and online learning for students with disabilities. ~~Effectiv~~e ~~Summe~~r 2010 Effective Fall 2021

CEP 933 Quantitative Methods in Educational Research II

~~Fal~~l ~~o~~f ~~ever~~y year. Spring of every year. Summer of every year. 3(3-0) P: CEP 932 RB: College algebra. R: Open to graduate students in the College of Education and open to doctoral students in the Mathematics Education Major or approval of department.

Advanced techniques of data analysis and statistical inference used in educational and psychological research. Multiple regression, analysis of variance, and basic principles of experimental design in educational applications.

~~Effectiv~~e ~~Summe~~r 2012 Effective Summer 2021

CEP 935 Advanc~~e~~d T~~opic~~s ~~i~~n Mul~~tivariat~~e ~~Dat~~a Analys~~i~~s II Hierarchical Linear Models (HLM)

Spring of odd years. 4(4-0) P: CEP 932 and CEP 933 ~~RB~~: ~~CE~~P 934 R: Open to graduate students.

Application of discrete and continuous multivariate methods in educational research. Applicability of hierarchical linear models (also known as multilevel or random effects models) in education and social sciences when data involve nested/clustered structures. ~~Effectiv~~e Spring 2014 Effective Fall 2021

## SCHOOL OF CRIMINAL JUSTICE

CJ 425 Wo~~me~~n and Criminal Justice Gender, Sexuality, Crime and Justice

Spring of every year. 3(3-0) Interdepartmental with Women's Studies. RB: CJ 220 or WS 201 R: Open to juniors or seniors.

Theories on women's victimization and criminality. Women's experiences as victims, ~~offenders~~, and criminal ~~justic~~e employee~~s~~. Laws a~~n~~d their effec~~t~~s ~~o~~n ~~th~~e ~~right~~s ~~o~~f women ~~in th~~e crimin~~a~~l j~~ustic~~e system. Theories on how gender and sexuality explain victimization and crime. How gender and sexuality shape experiences as victims, offenders, and criminal justice employees. Intersectionality with race and class. Laws and their effects on rights based on gender and sexuality in the criminal justice system.

~~Effectiv~~e Fa~~l~~l 2019 Effective Fall 2021

CJ 491 T~~opic~~s ~~i~~n Crimi~~na~~l Justice Topics in Criminal Justice (W)

Fall of every year. Spring of every year. 1 ~~t~~o 4 credits. 3(3-0) A ~~studen~~t may ~~ear~~n a maximum ~~o~~f 10 ~~credit~~s ~~i~~n ~~al~~l ~~enrollment~~s ~~fo~~r th~~i~~s course. A student may earn a maximum of 12 credits in all enrollments for this course. ~~P~~: ~~C~~J 292 P: (CJ 292) and completion of Tier I writing requirement R: Open to juniors or seniors in the Criminal Justice Major.

Special issues in criminal justice. ~~Effectiv~~e Spring 2014 Effective Fall 2021

## DEPARTMENT OF ECONOMICS

EC 251H Microeconomics and Public Policy

Fall of every year. Spring of every year. 4(4-0) P: MTH 124 or MTH 132 or MTH 152H Not open to students with credit in EC 301.

Theories of consumer behavior, production and cost. Output and price determination in competition and monopolies. Welfare economics, general equilibrium, externalities, and public goods.

~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

EC 420 Introduction to Econometric Methods

Fall of every year. Spring of every year. 3(3-0) ~~P: (EC 202 or EC 252H) and (EC 251H or EC 301)~~ ~~an~~d (MTH ~~12~~4 ~~o~~r MTH ~~13~~2 ~~o~~r MTH ~~152~~H ~~o~~r ~~L~~B ~~118~~) a~~n~~d (STT ~~31~~5 ~~o~~r STT ~~42~~1 ~~o~~r STT ~~43~~0 ~~o~~r STT

441) P: (EC 202 or EC 252H) and (EC 251H or EC 301) and (MTH 124 or MTH 132 or MTH 152H) and (STT 315 or STT 351 or STT 421 or STT 430 or STT 442)

Specification, estimation, and interpretation of econometric models. Evaluation of current quantitative work in economics.

~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

## DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ECE 331 Microprocessors and Digital Systems

Fall of every year. Spring of every year. 4(3-3) ~~P~~: ~~(CS~~E ~~22~~0 ~~o~~r ~~CS~~E ~~232~~) a~~n~~d ~~EC~~E 230 P: (CSE 220 or CSE 232) and (ECE 230 and (ECE 203 or concurrently)) R: Open to students in the Department of Electrical and Computer Engineering and open to students in the Department of Computer Science and Engineering.

Microcomputers. Microprocessor architecture. Addressing modes. Assembly language programming. Parallel and serial input and output. Interfacing. Interrupts. Peripheral device controllers. Applications and design.

SA: EE 331

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

ECE 402 Applications of Analog Integrated Circuits

Spring of every year. 4(3-3) P: ECE 302 and ECE 303 R: Open to students in the Department of Electrical and Computer Engineering and open to students in the Department of Computer Science and Engineering.

Circuit design using analog integrated circuits. SPICE macromodeling. Operational amplifiers, comparators, timers, regulators, multipliers and converters. Design project with hardware and software verification.

SA: ECE 484, EE 484 DELETE COURSE

Effective Spring 2021

ECE 474 Principles of Electronic Devices

Spring of every year. 3(3-0) P: ECE 302 and ECE 305

Energy levels in atoms. Crystal properties, energy bands and charge carriers, semiconductors, transport properties of bulk materials. P-n junction diodes, bipolar transistors, field effect transistors.

SA: EE 474 DELETE COURSE

Effective Spring 2021

## DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION

FSC 813 Food Laws and Regulations in Latin America

Fa~~l~~l ~~o~~f every year. Fall of odd years. ~~Summe~~r ~~o~~f every year. 3(3-0) RB: (FSC 810) or food law background. Not open to students with credit in LAW 810G.

Current issues that have shaped Latin American food regulation. Overview of regional characteristics. Basic food laws, agency responsibilities, product registration requirements, basic standards, food labeling, food safety, food additives, and food importation. Trade issues, international organizations, and commercial agreements. ~~Effectiv~~e Spring 2016 Effective Spring 2021

FSC 817 A~~nima~~l Health, W~~orl~~d T~~rad~~e ~~an~~d F~~oo~~d Safety ~~(OIE)~~: Challe~~nge~~s a~~n~~d Opportunities Global Animal Health, Food Safety, and International Trade

Fall of every year. 3(3-0) RB: (FSC 810) or animal science, veterinary medicine, food science, law, food safety, international development, agriculture, or related disciplines. Not open to students with credit in LAW 810E.

Exam~~ine~~s ~~th~~e history, objective~~s~~, ~~rule~~s ~~an~~d oper~~ation~~s ~~o~~f ~~th~~e W~~orl~~d ~~Organizatio~~n for ~~Anima~~l Health ~~(OIE)~~, regarding glo~~ba~~l animal ~~health~~, ani~~ma~~l wel~~fare~~, world tr~~ade~~, and food safety. Overview of the World Organization for Animal Health (OIE), global animal health patterns, and their relationship with international food law, world trade agreements, food safety, and their importance in international food and agricultural trade.

~~Effectiv~~e Fa~~l~~l 2012 Effective Fall 2021

FSC 820 Regulatory Leadership in Food Law

Fall of every year. ~~Sprin~~g ~~o~~f every year. 3(3-0) ~~RB~~: (FSC ~~811~~) ~~o~~r ~~prio~~r coursew~~or~~k ~~i~~n fo~~o~~d science, ~~foo~~d law, ~~o~~r fo~~o~~d safety RB: (FSC 811) or prior coursework in food law Not open to students with credit in LAW 810U.

~~Introductio~~n ~~t~~o regulatory affairs ~~throug~~h ~~th~~e r~~egulatio~~n ~~o~~f food. Food law regulatory affairs. Skill development for leadership in food regulatory issues including working with government agencies in adverse or high-stakes situations, achieving the central purpose of regulation, and control of risks to the public. Practical application of regulatory affairs tools and strategies. Nature of assessing and communicating risk. Quality controls and management. Dealing and prevention of crises.

~~Effectiv~~e ~~Summe~~r 2018 Effective Fall 2021

FSC 851 T~~h~~e ~~La~~w ~~o~~f ~~th~~e ~~Foreig~~n Su~~pplie~~r ~~Verificatio~~n P~~rogra~~m Rule

Food Import Law and the Foreign Supplier Verification Program (FSVP) Rule

Summer of odd years. 3(3-0) RB: (FSC 811) or prior coursework in food safety, food law, or food science Not open to students with credit in LAW 810V.

Leg~~a~~l perspecti~~v~~e ~~o~~f FDA's For~~eig~~n Supp~~lie~~r Verification Program ~~o~~f ~~th~~e F~~oo~~d Safety ~~Modernizatio~~n Act. Survey of the FDA and USDA law regarding the importing food into the United States, including the Foreign Supplier Verification Program (FSVP) rule and the Food Safety Modernization Act.

~~Effectiv~~e ~~Summe~~r 2018 Effective Fall 2021

FSC 852 T~~h~~e ~~La~~w ~~o~~f ~~th~~e Preventive ~~Control~~s ~~fo~~r Hum~~a~~n ~~Foo~~d Rule

The Law of the Preventive Controls for Human and Animal Food

Fa~~l~~l ~~o~~f ~~od~~d years. Spring of every year. 3(3-0) ~~RB~~: (FSC ~~811~~) or ~~prio~~r coursewo~~r~~k ~~i~~n ~~foo~~d safety, ~~foo~~d law, ~~o~~r fo~~o~~d science RB: (FSC 811) or prior coursework or professional experience in food safety, food law, or food science Not open to students with credit in LAW 810W.

Legal perspective of FDA’s Preventive Controls for Human Food Rule of the Food Safety Modernization Act.

~~Effectiv~~e ~~Summe~~r 2018 Effective Fall 2021

FSC 853 The Law of the Produce Safety Rule

Fa~~l~~l ~~o~~f ~~eve~~n years. Fall of every year. 3(3-0) RB: (FSC 811) or prior coursework in food safety, food law, or food science Not open to students with credit in LAW 810X.

Legal perspective of FDA’s Produce Safety Rule of the Food Safety Modernization Act. ~~Effectiv~~e ~~Summe~~r 2018 Effective Fall 2020

HNF 415 Global Nutrition

Fall of every year. ~~Sprin~~g ~~o~~f every year. 3(3-0) P: HNF 350

Burdens, causes, and consequences of undernutrition globally. Interaction of nutrition with illness, obesity, and reproductive health. Approaches, policies, and programs to prevent undernutrition.

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

## SCHOOL OF JOURNALISM

~~M~~I 211

DS 211 Documentary Film History and Theory

Fall of every year. 3(1-4) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. R: Open to students in the School of Journalism or in the Department of Media and Information or in the Department of Writing, Rhetoric and American Cultures or in the Film Studies major.

Documentary history and theory from its origins to the present. SA: MI 211

~~Effectiv~~e Fa~~l~~l 2020 Effective Summer 2021

~~M~~I 241

DS 241 Filmmaking I

Filmmaking I: Basics of Film Production

Fall of every year. Spring of every year. Summer of every year. 3(2-2) P: CAS 112 ~~R~~: ~~Ope~~n to ~~student~~s ~~i~~n ~~th~~e ~~Departmen~~t ~~o~~f M~~edi~~a ~~an~~d Information. R: Open to undergraduate students in the Department of Media and Information or in the School of Journalism. Not open to students with credit in CAS 201 or CAS 202.

~~Proces~~s ~~o~~f ~~creatin~~g a ~~fil~~m pro~~duct~~. ~~Basi~~c ~~camer~~a ~~operation~~, sou~~n~~d capt~~ure~~, ~~th~~e editing ~~proces~~s ~~an~~d pr~~oducin~~g a ~~fina~~l product. Aesthetics and learning hands-on production. Process of creating a film while working in a team setting. Basic camera operation, sound, post-production and short film production.

SA: MI 241

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 342

DS 242 ~~Mult~~i Camera Producti~~o~~n ~~fo~~r Television Multicam Production I

Fall of every year. Spring of every year. Summer of every year. 3(2-2) ~~P~~: ~~(M~~I ~~241~~) ~~o~~r ~~(CA~~S ~~11~~2 and ~~CA~~S ~~20~~1 ~~an~~d ~~CA~~S 202) P: CAS 112 ~~R~~: ~~Ope~~n ~~t~~o s~~tudent~~s ~~i~~n ~~th~~e Departme~~n~~t ~~o~~f ~~Medi~~a and Information or in the Documentary Production Minor or in the Fiction Filmmaking Minor. R: Open to students in the Department of Media and Information or in the Documentary Production Minor or in the Fiction Filmmaking Minor and open to students in the School of Journalism.

Conceptualizin~~g~~, designing, planni~~ng~~, produc~~ing~~, dir~~ectin~~g a~~n~~d evaluati~~n~~g multi-camera ~~vide~~o programs. Hands-on, intensive experience in multi-camera television production. Live directing, theory and execution, multi-camera equipment and technique. Participating in and leading a multi-camera production team.

~~SA~~: TC 342 SA: MI 342

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 343

DS 243 Audio Production Audio Storytelling

Fall of every year. Spring of every year. Summer of every year. 3(2-2) ~~P~~: ~~(M~~I ~~241~~) ~~o~~r ~~(CA~~S ~~11~~2 and ~~CA~~S ~~20~~1 ~~an~~d ~~CA~~S 202) P: CAS 112 ~~R~~: ~~Ope~~n ~~t~~o s~~tudent~~s ~~i~~n ~~th~~e Departme~~n~~t ~~o~~f ~~Medi~~a and Information or in the Documentary Production Minor or in the Fiction Filmmaking Minor. R: Open to students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

Basic audio production techniques. In-depth audio and radio industry analysis. Media writing.

~~SA~~: TC 343 SA: MI 343

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 311

DS 311 Introduction to Documentary Filmmaking

Spring of every year. 3(2-2) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. ~~P~~: ~~M~~I 211 P: DS 211 and CAS 112 ~~R~~: ~~Ope~~n ~~t~~o students ~~i~~n the Documentary ~~Productio~~n Minor. R: Open to students in the School of Journalism or in the Department of Media and Information or in the Documentary Production Minor.

Introduction to documentary production using accessible and affordable digital technology. ~~SA~~: TC 233 SA: MI 311

~~Effectiv~~e Fa~~l~~l 2020 Effective Summer 2021

~~M~~I 341

DS 341 ~~Filmmakin~~g II

Filmmaking II: Creating Short Films

Fall of every year. Spring of every year. Summer of every year. 3(2-2) ~~P~~: ~~M~~I 241 P: DS 241 and DS 113 ~~R~~: ~~Ope~~n ~~t~~o ~~student~~s ~~i~~n ~~th~~e D~~epartmen~~t ~~o~~f ~~Medi~~a ~~an~~d Informat~~io~~n ~~o~~r ~~i~~n ~~th~~e Documentary ~~Productio~~n ~~Mino~~r ~~o~~r ~~i~~n ~~th~~e Fict~~io~~n Filmmaki~~n~~g Minor. R: Open to students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

~~Fil~~m sty~~l~~e planning, ~~techniques~~, ~~an~~d ~~aestheti~~c ~~principle~~s ~~fo~~r c~~inem~~a ~~an~~d television production. Making short films from inception to distribution.

~~SA~~: TC 341 SA: MI 341

~~Effectiv~~e Fa~~l~~l 2018 Effective Summer 2021

~~M~~I 344

DS 344 Sound Desi~~g~~n ~~fo~~r ~~Cinema~~, Televisi~~on~~, and Games Sound Design for Storytelling

Spring of every year. Summer of every year. 3(2-2) ~~P~~: ~~(M~~I ~~241~~) ~~o~~r ~~(CA~~S 112 ~~an~~d ~~CA~~S 201 and ~~CA~~S 202) P: DS 113 and DS 243 RB: MI 343 ~~R~~: ~~Ope~~n ~~t~~o ~~student~~s ~~i~~n ~~th~~e Department ~~o~~f ~~Medi~~a and Information or in the Documentary Production Minor or in the Fiction Filmmaking Minor. R: Open to students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

Principles, technology, and techniques of sound design for media projects, including film, games, television, animation, and web.

SA: MI 344

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 351

DS 351 Producing For Cinema and Television

Spring of every year. 3(3-0) P: ~~(M~~I ~~241~~) ~~o~~r ~~(CA~~S ~~11~~2 and C~~A~~S 201 and C~~A~~S 202) P: (DS 241) or (CAS 112 and CAS 201 and CAS 202) ~~R~~: ~~Ope~~n ~~t~~o students ~~i~~n ~~th~~e Depa~~rtmen~~t ~~o~~f ~~Medi~~a and Information or in the Documentary Production Minor or in the Fiction Filmmaking Minor. R: Open to students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

Conceptualizin~~g~~, designing, planni~~ng~~, and developing proje~~ct~~s ~~fo~~r ~~cinem~~a ~~an~~d television. Explore the role of the creative producer in both artistic and business aspects of film and digital media projects. Case studies from development to design.

~~SA~~: TC 351 SA: MI 351

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 441

DS 409 Advanced Lighting and Camera Techniques

Fall of every year. Spring of every year. 3(1-4) ~~P~~: ~~M~~I 341 P: DS 341 ~~R~~: ~~Ope~~n ~~t~~o ~~student~~s ~~i~~n the Department ~~o~~f ~~Medi~~a ~~an~~d Info~~rmatio~~n ~~o~~r ~~i~~n the Documentary Production Mi~~no~~r ~~o~~r ~~i~~n ~~th~~e Fiction ~~Filmmakin~~g Minor. R: Open to students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

Advanc~~e~~d techniqu~~e~~s ~~fo~~r manipulation ~~o~~f light ~~an~~d image charact~~eristic~~s ~~i~~n f~~il~~m and televisi~~o~~n settings. Advanced techniques for film and TV lighting and image manipulation. ~~SA~~: TC ~~348~~, ~~M~~I 348 SA: MI 441

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 411A

DS 411A Advanced Documentary Filmmaking I (W)

Fall of every year. 3(2-2) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. ~~P~~: ~~(M~~I ~~311~~) ~~an~~d ~~Completio~~n ~~o~~f T~~ie~~r I Wri~~tin~~g Requirement P: (DS 311) and Completion of Tier I Writing Requirement R: Open to undergraduate students in the Documentary Production Minor.

Design and development of documentaries in a team setting using video and audio, still photography, web design, and print media. Participation in a production cycle including idea generation, research, design, production, and distribution.

~~SA~~: ~~M~~I 411 SA: MI 411A

~~Effectiv~~e Fa~~l~~l 2020 Effective Summer 2021

~~M~~I 411B

DS 411B Advanced Documentary Filmmaking II (W)

Spring of every year. 3(2-2) Interdepartmental with Film Studies and Journalism and Writing, Rhetoric and American Cultures. ~~P~~: ~~(M~~I 411A) ~~an~~d completi~~o~~n ~~o~~f Ti~~e~~r I wr~~itin~~g requirement P: (DS 411A) and completion of Tier I writing requirement R: Open to undergraduate students in the Documentary Production Minor.

Design and development of documentaries in a team setting using video and audio, still photography, web design, and print media. Participation in a production cycle including idea generation, research, design, production, and distribution.

~~SA~~: ~~M~~I 411 SA: MI 411B

~~Effectiv~~e Fa~~l~~l 2020 Effective Summer 2021

~~M~~I 440

DS 440 Advanced Video Editing

Spring of every year. 3(2-2) P: ~~M~~I 341 P: DS 341 ~~R~~: ~~Ope~~n ~~t~~o stu~~dent~~s ~~i~~n ~~th~~e Department ~~o~~f Media and Information or in the Documentary Production Minor or in the Fiction Filmmaking Minor. R: Open to students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

Advanc~~e~~d ~~principles~~, te~~chnolog~~y ~~an~~d techni~~que~~s ~~o~~f ~~vide~~o editing. Art and technique of editing for genre (documentary and narrative). Applied industry standards and broadcast technical specifications.

~~SA~~: ~~M~~I 352 SA: MI 440

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 442

DS 441 Design ~~o~~f Cinema ~~an~~d Televisi~~o~~n Proj~~ect~~s (W) Filmmaking III: Advanced Filmmaking Capstone (W)

Fall of every year. Spring of every year. Summer of every year. 3(2-2) ~~P~~: ~~(M~~I ~~341~~) ~~an~~d Completion ~~o~~f T~~ie~~r I ~~Writin~~g Requirement P: (DS 341) and Completion of Tier I Writing Requirement ~~R~~: ~~Ope~~n to juniors or seniors or graduate students in the Department of Media and Information or in the Documentary Producti~~o~~n Minor ~~o~~r in ~~th~~e Fi~~ctio~~n Filmmaki~~n~~g Minor. R: Open to juniors or seniors or graduate students in the Department of Media and Information or in the School of Journalism or in the Documentary Production Minor or in the Fiction Filmmaking Minor.

Devel~~o~~p TV, vi~~de~~o a~~n~~d ~~fil~~m proje~~ct~~s ~~i~~n a group ~~setting~~. Practice a ~~ful~~l produ~~ctio~~n cycle ~~includin~~g ~~ide~~a devel~~opment~~, budgetin~~g~~, ~~pitching~~, ~~teaser~~, traile~~r~~, production, postproduction, distribution and evaluatio~~n~~. Producti~~o~~n ~~cas~~e st~~udies~~, adverti~~sing~~, ethics ~~an~~d worldw~~id~~e ~~medi~~a ~~an~~d ~~jo~~b trends. Develop film, television, documentary and online storytelling projects in a group setting. Practice a full production cycle including idea development, budgeting, pitching, teaser, trailer, production, post-production, distribution and evaluation. Production case studies, ethics, worldwide media developments and job trends.

~~SA~~: TC 442 SA: MI 442

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

~~M~~I 443

DS 443 Audio Industry Design and Manag~~emen~~t (W) Advanced Audio Design (W)

Fall of every year. Spring of every year. Summer of every year. 3(2-2) ~~P~~: ~~(M~~I ~~343~~) ~~an~~d Completion ~~o~~f T~~ie~~r I ~~Writin~~g Requirement P: ((DS 343 or DS 344) and completion of Tier I writing requirement) and Completion of Tier I Writing Requirement ~~R~~: ~~Ope~~n ~~t~~o ~~junior~~s or seniors ~~o~~r gradu~~at~~e ~~student~~s in ~~th~~e ~~Departmen~~t ~~o~~f ~~Medi~~a ~~an~~d Information. R: Open to juniors or seniors or graduate students in the Department of Media and Information or in the School of Journalism.

Advanced audio production specializing in multi-channel techniques. Industry focus on all aspects of the audio field.

~~SA~~: TC 443 SA: MI 443

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

JRN 312 S~~to~~p ~~Motio~~n Animation Storytelling

Stop Motion Animation Storytelling (W)

Summer of every year. 3(3-0) P: Completion of Tier I Writing Requirement

Creation of digital stop motion animation sequences to tell a narrative story or recreate a historical or current world event. History of stop motion animation, character rigging and kinetics, storyboarding, plot and sequence development.

~~Effectiv~~e Fa~~l~~l 2016 Effective Summer 2021

JRN 486 British and Irish Mass Media Education Abroad

Summer of every year. England, Ireland, England, Ireland, England, Ireland 3(3-0) 6(3-6) R: Approval of school.

Examine the rapidly changing world of media and communication in London, Scotland, Ireland, and Wales. Themes studied are traditional and digital media, marketing and advertising, journalism, broadcasting and public relations.

~~Effectiv~~e ~~Summe~~r 2020 Effective Summer 2021

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

FLT 885 Experiential Module in Foreign Language Teaching

Fall of every year. Spring of every year. Summer of every year. 2 to 5 credits. A student may earn a maximum of 5 credits in all enrollments for this course. ~~R~~: Open ~~t~~o gradu~~at~~e ~~student~~s ~~i~~n the Foreign ~~Languag~~e T~~eachin~~g Majo~~r~~. Approv~~a~~l ~~o~~f department. R: Open to graduate students in the Foreign Language Teaching Major or approval of department. Not open to students with credit in LLT 890.

Experience in foreign language teaching and learning. Action research, community outreach, immersion, program administration, professional seminar, teaching practicum, technology enhancement, or service learning.

~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

FLT 898 Master’s Comprehensive Foreign Language Teaching Portfolio Examination

Fall of every year. Spring of every year. Summer of every year. 1(1-0) ~~R~~: O~~pe~~n ~~t~~o graduate ~~student~~s ~~i~~n ~~th~~e Forei~~g~~n ~~Languag~~e T~~eachin~~g ~~Major~~. Approv~~a~~l ~~o~~f department. R: Open to graduate students in the Foreign Language Teaching Major or approval of department. Not open to students with credit in LLT 899.

Final comprehensive portfolio exam. ~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

## PROGRAM IN MATHEMATICS EDUCATION

MTHE 926 Proseminar in Mathematics Education I

Fa~~l~~l ~~o~~f ~~od~~d years. Fall of every year. 3(3-0) Interdepartmental with Counseling, Educational Psy & Special Education and Teacher Education.

Research on the learning and teaching of mathematics. Focus on curriculum, discourse, equity and teacher education.

Request the use of ET-Extension to postpone grading.

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

SA: SME 926

~~Effectiv~~e Fa~~l~~l 2016 Effective Spring 2021

MTHE 927 Proseminar in Mathematics Education II

Fa~~l~~l ~~o~~f ~~eve~~n years. Spring of every year. 3(3-0) Interdepartmental with Counseling, Educational Psy & Special Education and Teacher Education.

Research on the learning and teaching of mathematics. Focus on teaching, student learning, assessment and policy.

Request the use of ET-Extension to postpone grading.

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

SA: SME 927

~~Effectiv~~e Fa~~l~~l 2016 Effective Spring 2021

## DEPARTMENT OF MEDIA AND INFORMATION

MI 301 Bringing Media to Market

Spring of every year. Summer of every year. 3(3-0) ~~P~~: ~~(M~~I ~~20~~1 or concurrently) ~~o~~r ~~CA~~S 114 ~~o~~r BUS 190 P: (MI 201 or concurrently) or CAS 114 or ESHP 190

Process of bringing media to market across multiple delivery platforms including broadcast, cable, satellite, Internet and mobile devices. Organization of creative industries, distribution methods, pricing and business models. Creation and repurposing of content. Practical and theoretical models of the behavior of media and information consumers.

SA: TC 356, TC 381, TC 301

~~Effectiv~~e Fa~~l~~l 2016 Effective Spring 2021

MI 332 Game Interface Design

Spring of every year. 3(2-2) ~~P~~: ~~M~~I 230 P: CAS 117 RB: MI 231 R: Open to undergraduate students in the Department of Media and Information.

Exploration of concepts in the planning, implementation, and testing of games and interactive media user interfaces.

~~Effectiv~~e Fa~~l~~l 2020 Effective Spring 2021

MI 445 Game Design and Development I

Fall of every year. 3(2-2) ~~P~~: MI ~~23~~1 ~~o~~r ~~CS~~E 3~~3~~1 ~~o~~r ~~CS~~E 335 ~~o~~r STA 360 P: (CAS 117) and (MI 227 or MI 230 or MI 231 or MI 247 or CSE 232 or CSE 331 or CSE 335 or GD 360 or STA 201 or STA 380) and (MI 227 or MI 230 or MI 231 or MI 247 or CSE 232 or CSE 331 or CSE 335 or GD 360 or

STA 201 or STA 380) RB: TC 247 or TC 347 R: Open to students in the Game Design and Development Minor and open to graduate students in the Department of Media and Information.

Design, architecture, and creation concepts related to the development of interactive digital games.

SA: TC 445

~~Effectiv~~e Fa~~l~~l 2016 Effective Spring 2021

## COLLEGE OF OSTEOPATHIC MEDICINE

OST 828 Global Health Capstone

Fall of every year. Spring of every year. Summer of every year. 3 credits. ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n ~~th~~e Co~~lleg~~e ~~o~~f ~~Osteopathi~~c Medici~~n~~e ~~o~~r approv~~a~~l ~~o~~f college. R: Open to master's students in the Global Health Major. Approval of college.

Integration of knowledge, skills and competencies acquired in global health. Request the use of ET-Extension to postpone grading.

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

~~Effectiv~~e Fa~~l~~l 2020 Effective Spring 2021

## SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION

UP 314 Methods for Investigation of Urban Systems

Spring of every year. 4(3-2) Interdepartmental with Geography. R: Open to students in the Urban and Regional Planning Major.

Models, approaches, and techniques for urban and regional problem analysis, research, program evaluation, and project management. Application of related computer software. ~~Effectiv~~e Spring 2020 Effective Spring 2022

UP 454 Local Economic Planning

Fall of every year. 3(3-0) ~~R~~: ~~Ope~~n ~~t~~o senio~~r~~s or juni~~or~~s ~~i~~n the ~~Colleg~~e ~~o~~f Soc~~ia~~l Science.

The economic component of comprehensive community planning. Taxation and services delivery. Fiscal health and physical and social development of a community.

SA: UP 354

~~Effectiv~~e Spring 2020 Effective Spring 2021

UP 478 Urban Transportation Planning

Fall of every year. 3(3-0) Interdepartmental with Geography. ~~R~~: ~~Ope~~n ~~t~~o j~~unior~~s ~~o~~r seniors ~~i~~n the Geography Maj~~o~~r ~~o~~r ~~i~~n ~~th~~e Ur~~ba~~n a~~n~~d Regio~~na~~l Plann~~in~~g Ma~~jo~~r ~~o~~r approv~~a~~l ~~o~~f school.

Principles of decision-making in urban transportation planning. Demand and supply analysis, social and environmental impacts, implementation programs. Use of computer models.

~~Effectiv~~e Spring 2018 Effective Fall 2021

UP 488 The Sustainable and Climate Resilient City

~~Fal~~l ~~o~~f ~~ever~~y year. Spring of every year. 3(3-0) ~~R~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~o~~r seni~~or~~s ~~i~~n ~~th~~e Urban and ~~Regiona~~l Planni~~n~~g ~~Majo~~r ~~o~~r ~~approva~~l of school. Not open to students with credit in UP 888.

Multidisciplinary research in sustainability and climate resilience of urban places. Characteristics of sustainable and resilient cities, comparative analysis, and international perspective.

~~Effectiv~~e Spring 2018 Effective Spring 2021

UP 494 Planning Practicum

Spring of every year. 6(0-12) P: ~~U~~P ~~31~~4 and ~~U~~P ~~36~~5 a~~n~~d UP 454 P: UP 314 and UP 454 R: Open to seniors in the Urban and Regional Planning Major.

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 Spring 2021

UP 800 Special Topics in Urban Planning

~~Fall of every year. Spring of every year. Summer of every year.~~ On Demand. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. ~~R~~: ~~Ope~~n only to ~~graduat~~e ~~student~~s ~~i~~n Urban ~~an~~d Region~~a~~l Planning.

Issues and current research in urban planning. ~~Effectiv~~e ~~Summe~~r 2005 Effective Spring 2021

UP 855 Urban Sustainability and Climate Change

Fall of even years. 3(3-0) R: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n ~~th~~e ~~Maste~~r ~~i~~n Ur~~ba~~n a~~n~~d Regional ~~Plannin~~g ~~o~~r ~~approva~~l of school. Not open to students with credit in UP 455.

Urban sustainability in the context of the global climate change, tools for sustainability planning, adaptation to climate change, risk and vulnerability in different climate zones ~~Effectiv~~e Spring 2018 Effective Spring 2021

UP 899 Master's Thesis Research

Fall of every year. Spring of every year. Summer of every year. 1 ~~t~~o 6 credits. 1 to 4 credits. ~~A~~ ~~studen~~t may e~~ar~~n a maximum ~~o~~f ~~2~~4 ~~credit~~s ~~i~~n ~~al~~l enrollmen~~t~~s ~~fo~~r ~~thi~~s course. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open to master's students in the Master in Urban and Regional Planning. Approval of school.

Master's thesis research.

~~Effectiv~~e Fa~~l~~l 2015 Effective Fall 2021

## DEPARTMENT OF PSYCHOLOGY

~~PS~~Y 402

PSY 302 ~~Sensatio~~n and ~~Perceptio~~n (W)

Sensation and Perception

~~Fal~~l ~~o~~f every year. Spring of every year. 3(3-0) ~~P~~: ~~(PS~~Y ~~20~~0 ~~o~~r ~~PS~~Y ~~209~~) a~~n~~d ~~((PS~~Y ~~29~~5 ~~o~~r STT ~~231~~) a~~n~~d comp~~letio~~n ~~o~~f T~~ie~~r I writi~~n~~g requirement) P: (PSY 101) and (PSY 200 or PSY 209)

Biological and psychological approaches to the study of the extraction, representation, and interpretation of sensory information. Review of major methodologies. Emphasis on vision.

SA: PSY 402

~~Effectiv~~e Fa~~l~~l 2014 Effective Fall 2021

## COLLEGE OF VETERINARY MEDICINE

VM 690 Special Problems in Veterinary Medicine

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A ~~studen~~t may e~~ar~~n a ~~maximu~~m ~~o~~f 6 ~~credit~~s ~~i~~n all en~~rollment~~s ~~fo~~r ~~thi~~s course. A student may earn a maximum of 12 credits in all enrollments for this course. ~~R~~: ~~Ope~~n only ~~t~~o graduate-professi~~ona~~l stu~~dent~~s in the ~~Colleg~~e ~~o~~f Veterinary Medicine. R: Open to graduate-professional students in the College of Veterinary Medicine.

Individual study directed by a faculty member on an experimental, theoretical, or applied problem. May involve off-campus experience in a preceptorial mode.

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.

~~Effectiv~~e ~~Summe~~r 2004 Effective Summer 2021

## DEPARTMENT OF WRITING, RHETORIC AND AMERICAN CULTURES

WRA 886 Master’s Research Colloquium

Fall of every year. 1(1-0) 3(3-0) ~~R~~: ~~Ope~~n ~~t~~o master's students ~~i~~n ~~th~~e ~~Departmen~~t ~~o~~f Writing, ~~Rhetori~~c ~~an~~d Am~~erica~~n Cultures. R: Open to master's students in the Department of Writing, Rhetoric and American Cultures. Approval of department.

Professional development seminar focused on developing research skills, designing research projects, and preparing publications, conference presentations, and other professional materials unique to master's students.

~~Effectiv~~e Fa~~l~~l 2015 Effective Fall 2021