# MICHIGAN STATE UNIVERSITY

### Report of

**THE UNIVERSITY COMMITTEE ON CURRICULUM**

**to the Faculty Senate March 15, 2022**

*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

March 15, 2022

This report is prepared and distributed for the following purposes:

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

Reports of the University Committee on Curriculum to the Faculty Senate are organized as follows: PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

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

PART II - NEW COURSES:1

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

PART III - COURSE CHANGES:1

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

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

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

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

MICHIGAN STATE UNIVERSITY

March 15, 2022

TO: Faculty Senate

FROM: University Committee on Curriculum

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

# PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

## COLLEGE OF ARTS AND LETTERS

1. Change the requirements for the **Bachelor of Arts** degree in **English** in the Department of English. The Teacher Education Council (TEC) approved this request at its February 14, 2022 meeting.

*The concentrations in the Bachelor of Arts degree in English are noted on the student’s academic record when the requirements for the degree have been completed.*

* 1. Under the heading **Requirements for the Bachelor of Arts Degree in English** make the following changes:
		1. In item 3.a., add the following item (1) and renumber respectively.
			1. One of the following courses (1 credit):

|  |  |  |  |
| --- | --- | --- | --- |
| AL | 250 | Career Exploration Strategies for Arts and Letters |  |
|  |  | Students | 1 |
| AL | 460 | Advanced Career Strategies | 1 |

* + - 1. In item 3. a. (6) delete the following course:

ENG 480 History of Western Literary Criticism 3

* + - 1. Replace item 3. a. (7) with the following:

|  |  |  |  |
| --- | --- | --- | --- |
| ENG | 484B | Critical Questions in Region, School, Movement | 3 |
| ENG | 484C | Critical Questions in a Literary Period | 3 |
| ENG | 484D | Critical Questions in a National Literature | 3 |
| ENG | 493 | English Internship | 3 |

* + 1. In the ***Creative Writing Concentration*** make the following changes:
1. Under item 1., change the credits of ENG 320D from ‘4’ to ‘3’.
2. Under item 4., delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| RCAH | 291 | Arts Workshop | 3 |
| WRA | 341 | Nature and Environmental Writing | 3 |
| WRA | 481 | Publication Management II | 3 |

Add the following course:

WRA 480 Publication Management 3

1. Under item 5., add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| ENG | 483 | Seminar in Literary Editing and Publishing | 3 |
| ENG | 484E | Creative Writing Capstone | 3 |

1. Under item 5., delete the note.
	* 1. Under the ***Popular Culture Studies Concentration*** make the following changes:
2. In item 1., change the credits of ENG 340 from ‘4’ to ‘3’.
3. In item 3. b., delete the following course:

ENG 480 History of Western Literary Criticism 3

* + 1. Add the following concentration:

#### *English Education Concentration*

The English Education Concentration is available to students who are enrolled in the Bachelor of Arts in English and seeking secondary education teacher certification.

Students interested in the concentration should consult with their advisor. Students who elect this concentration must complete the following courses, all of which will count toward the 36 to 40 credits in the Bachelor of Arts in English degree. The concentration will be noted on the student's transcript.

1. The following introductory course (3 credits):

ENG 302 Introduction to English Language Studies 3

1. The following genre course (3 credits):

ENG 308 Readings in Literature for Young Adults 3

1. The following seminar (4 credits):

ENG 408 Critical Literacies and Communities 4

1. The following capstone course (3 credits):

ENG 413 Critical Questions in Language and

Composition (W) 3

Effective Fall 2022.

1. Change the requirements for **Disciplinary Teaching Minor** in **Teaching English to Speakers of Other Languages** available for elementary and secondary certification in the Department of Linguistics, Languages and Cultures. The Teacher Education Council (TEC) approved this request at its February 14, 2022 meeting.
	1. Under the heading **Teaching English to Speakers of Other Languages** replace the entire entry with the following:
		1. One of the following courses (3 or 4 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| LIN | 200 | Introduction to Language | 3 |
| LIN | 401 | Introduction to Linguistics | 4 |
| All of the following courses (16 credits): |
| LLT | 307 | Methods of Second and Foreign Language Teaching | 3 |
| LLT | 346 | Pedagogical English Grammar for English Teachers | 3 |
| LLT | 361 | Second and Foreign Language Learning | 3 |
| or |  |  |  |
| LLT | 362 | Child Second Language Learning | 3 |
| TE | 341 | Teaching and Learning of (Bi)Multilingual Learners | 3 |
| TE | 342 | Teaching Methods for (Bi)Multilingual Learners | 3 |
| TE | 503 | Internship in Teaching Diverse Learners in Additional |  |
|  |  | Endorsement Areas | 1 |

2.

1. Complete either a. or b. (3 or 6 credits):
	1. ANP 420 Language and Culture 3
	2. One of the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| COM | 310 | Intercultural Communication | 3 |
| or |  |  |  |
| COM | 320 | Diversity and Communication | 3 |
| LIN | 471 | Sociolinguistics | 3 |

1. Proof of proficiency in an additional language equivalent to two semesters of study.

22 to 26

The Teaching English to Speakers of Other Languages minor must be completed in combination with an academic core major. Students should see an academic advisor in the College of Education for more information.

Effective Fall 2022.

1. Change the requirements for the **Minor** in **Theatre** in the Department of Theatre.
	1. Under the heading **Requirements for the Minor in Theatre** make the following changes:
2. In item 3., delete the following courses:

THR 111L Introduction to Technical Theatre Laboratory 1

THR 300A Theatre Practicum – Production Emphasis 1

THR 300C Theatre Practicum – Area Emphasis 1

1. Change item 4. to the following:

Complete an additional 9 credits of Theatre electives.

Effective Fall 2022.

1. Change the requirements for the **Minor** in **Dance** in the Department of Theatre.
	1. Under the heading **Requirements for the Minor in Dance** make the following change:

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

DAN 451 Dance Technique III 2

DAN 452 Dance Technique IV 2

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| DAN | 451 | Dance Technique III | 3 |
| DAN | 452 | Dance Technique IV | 3 |

Effective Fall 2022.

## ELI BROAD COLLEGE OF BUSINESS

1. Change the **Graduation Requirements for the Bachelor of Arts** degree in the **Eli Broad College of Business**. The University Committee on Undergraduate Education (UCUE) approved this request at its February 3, 2022 meeting.
	1. Under the heading **Graduation Requirements for the Bachelor of Arts Degree** make the following changes:
		1. In item 2. b., delete the following course:

MKT 310 International Business 3

Add the following course:

IBUS 310 International Business 3

Effective Fall 2022.

1. Change the requirements for the **Master of Science** degree in **Accounting** in the Department of Accounting and Information Systems. The University Committee on Graduate Studies (UCGS) approved this request at its February 21, 2022 meeting.

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

* 1. Under the heading **Requirements for the Master of Science Degree in Accounting**, add the following concentration:

### Transaction Services

|  |  |  |  |
| --- | --- | --- | --- |
| ACC | 807 | Using Financial Statement Data for Decision- |  |
|  |  | Making- An Analytics Approach | 3 |
| ACC | 850 | Accounting and Tax Implications of Mergers |  |
|  |  | and Acquisitions | 3 |
| ACC | 891 | Special Topics in Accounting and Information Systems | 3 |
| FI | 845 | Financial Modeling & Simulation I | 1.5 |
| FI | 846 | Financial Modeling & Simulation II | 1.5 |

Effective Fall 2022.

1. Change the requirements for the **Minor** in **Insurance and Risk Management** in the Department of Finance.
	1. Under the heading **Requirements for the Minor in Insurance and Risk Management** make the following changes in item 1.:

Delete the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| FI | 312 | Introduction to Investments | 3 |
| FI | 321 | Theory of Investments | 3 |
| SCM | 475 | Supply Chain Decision Modeling | 2 |

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| FI | 480 | Financial Risk Management | 3 |
| STT | 467 | Insurance Operations | 3 |

Effective Fall 2022.

1. Change the requirements for the **Graduate Certificate** in **Human Resource Management and Development** in the Department of Management. The University Committee on Graduate Studies (UCGS) approved this request at its February 21, 2022 meeting.
	1. Under the heading **Admission** replace items 2. and 3. with the following:
2. have a preferred undergraduate grade-point average of 3.0.
3. have three or more years of full-time managerial experience in the private or public sector.

Effective Fall 2022.

1. Change the requirements for the **Graduate Certificate** in **Leadership and Managing Teams** in the Department of Management. The University Committee on Graduate Studies (UCGS) approved this request at its February 21, 2022 meeting.
	1. Under the heading **Admission** replace items 2. and 3. with the following:
2. have a preferred undergraduate grade-point average of 3.0.
3. have three or more years of full-time managerial experience in the private or public sector.

Effective Fall 2022.

1. Change the requirements for the **Master of Science** degree in **Management, Strategy, and Leadership** in the Department of Management. The University Committee on Graduate Studies (UCGS) approved this request at its February 21, 2022 meeting.

*The concentrations in the Master of Science degree in Management, Strategy, and Leadership are noted on the student’s academic record when the requirements for the degree have been completed.*

* 1. Under the heading **Admission** replace items 1. and 3. with the following:

1. Have at least three years of full-time managerial experience in the private or public sector.

3. Have a preferred undergraduate grade-point average of 3.00.

* 1. Under the heading **Requirements for the Master of Science Degree in Management, Strategy, and Leadership** make the following changes:
		1. Replace item 1. with the following:

Students must complete 20 credits from the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| MGT | 801 | Analyzing Your Organization | 2 |
| MGT | 804 | International Management | 2 |
| MGT | 810 | Human Resource Management for General Managers | 2 |
| MGT | 817 | Managing the Learning Organization | 2 |
| MGT | 824 | Developing Managerial Skills | 2 |
| MGT | 840 | Leadership and Team Management | 2 |
| MGT | 842 | Leading Strategic Change | 2 |
| MGT | 850 | Competitive and Business Strategy | 2 |
| MGT | 863 | Negotiations | 2 |
| MGT | 881 | Creating an Ethical Organization | 2 |

* + 1. Renumber items 2. and 3. as 3. and 4. and add the following item 2.:

Complete 10 credits from the following courses. Students opting for a concentration must complete all four courses in it.

#### *Human Resource Management*

|  |  |  |  |
| --- | --- | --- | --- |
| MGT | 811 | Fundamentals of Human Resource Staffing | 2 |
| MGT | 814 | Managing Diversity in the Workplace | 2 |
| MGT | 818 | Talent Management and Development | 2 |
| MGT | 822 | Developing Reward and Compensation Systems | 2 |
| ***Strategic Management*** |
| MGT | 828 | Strategic Control | 2 |
| MGT | 843 | Innovation and Entrepreneurship | 2 |
| MGT | 856 | Corporate Strategy | 2 |
| MGT | 873 | Strategic Decision Making | 2 |

Effective Fall 2022.

1. Change the requirements for the **Graduate Certificate** in **Strategic Management** in the Department of Management. The University Committee on Graduate Studies (UCGS) approved this request at its February 21, 2022 meeting.
	1. Under the heading **Admission** replace items 2. and 3. with the following:
2. have a preferred undergraduate grade-point average of 3.0
3. have three or more years of full-time managerial experience in the private or public sector.
	1. Under the heading **Requirements for the Graduate Certificate in Strategic Management** make the following changes:
		1. In item 2. delete the following course:

MGT 804 International Management 2

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| MGT | 828 | Strategic Control | 2 |
| MGT | 843 | Innovation and Entrepreneurship | 2 |

Effective Fall 2022.

## COLLEGE OF COMMUNICATION ARTS AND SCIENCES

1. Change the requirements for the **Minor** in **Sports Journalism** in the School of Journalism.
	1. Under the heading **Requirements for the Minor in Sports Journalism** make the following changes:
		1. Under item 2., add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| JRN | 404 | Sports Broadcast and Production | 3 |
| JRN | 484 | Sports Journalism Education Abroad | 6 |

* + 1. Under item 2., replace the note with the following:

JRN 492 special topics courses may count towards the concentration, if applicable and with advisor approval. Students who re-enroll in JRN 492 must select a different topic than previously taken.

Effective Fall 2022.

## COLLEGE OF EDUCATION

1. Change the requirements for the **Bachelor of Arts** degree in **Education** in the Department of Teacher Education. The Teacher Education Council (TEC) approved this request at its February 14, 2022 meeting.

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

* 1. Under the heading **Requirements for the Bachelor of Arts Degree in Education** make the following changes:
		1. In item 2. a. (1), change the credits from ‘16’ to ‘19’ and add the following course: TE 341 Teaching and Learning of (Bi)Multilingual Learners 3
		2. Replace item 2. d. with the following:

**Teaching English to Speakers of Other Languages** (15 to 18 credits): Completion of this requirement along with TE 341 and either LIN 200 or LIN 401 satisfies the course requirements for the additional endorsement in English as a Second Language.

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

|  |  |  |  |
| --- | --- | --- | --- |
| LLT | 307 | Methods of Second and Foreign Language |  |
|  |  | Teaching | 3 |
| LLT | 346 | Pedagogical English Grammar for |  |
|  |  | English Teachers | 3 |
| LLT | 361 | Second and Foreign Language Learning | 3 |
| TE | 342 | Teaching Methods for (Bi)Multilingual Learners | 3 |
| Complete either (a) or (b) (3 or 6 credits): |
| (a) | ANP | 420 | Language and Culture | 3 |
| (b) | COM | 310 | Intercultural Communication | 3 |
|  | Or |  |  |  |
|  | COM | 320 | Diversity and Communication | 3 |
|  | LIN | 471 | Sociolinguistics | 3 |

* + - 1. (2)

Effective Fall 2022.

## COLLEGE OF ENGINEERING

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

*The concentrations in the Bachelor of Science degree in Chemical Engineering are noted on the student’s academic record when the requirements for the degree have been completed.*

* 1. Under the heading **Requirements for the Bachelor of Science Degree in Chemical Engineering** make the following changes:
		1. In the **Concentrations in Chemical Engineering** make the following changes:
			1. Under the heading **Environmental** delete the following courses from the elective listing:

|  |  |  |  |
| --- | --- | --- | --- |
| EEM | 255 | Ecological Economics | 3 |
| EEM | 320 | Environmental Economics | 3 |
| EEM | 405 | Corporate Environmental Management (W) | 3 |

Add the following courses to the elective listing:

|  |  |  |
| --- | --- | --- |
| AFRE 265 | Ecological Economics | 3 |
| AFRE 360 | Environmental Economics | 3 |
| AFRE 465 | Corporate Environmental Management (W) | 3 |

Effective Fall 2022.

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

*The concentrations in the Bachelor of Science degree in Materials Science and Engineering are noted on the student’s academic record when the requirements for the degree have been completed.*

* 1. Under the heading **Concentrations in Materials Science and Engineering** make the following changes:
		1. Under **Biomedical Materials Engineering** replace the entire entry with the following:

To gain interdisciplinary skills in human biology and earn a Bachelor of Science degree in Materials Science and Engineering with a biomedical materials engineering concentration, students must complete requirement 3. a. above and the following (25 credits):

1.

|  |
| --- |
| All of the following courses (12 credits): |
| ANTR | 350 | Human Gross Anatomy for Pre-Health Professionals | 3 |
| CEM | 251 | Organic Chemistry I | 3 |
| Or |  |  |  |
| CEM | 351 | Organic Chemistry I | 3 |
| ME | 495 | Tissue Mechanics | 3 |
| MSE | 425 | Biomaterials and Biocompatibility | 3 |
| One of the following courses (4 credits): |
| PSL | 250 | Introduction to Physiology | 4 |
| PSL | 310 | Physiology for Pre-Health Professionals | 4 |
| Two of the following courses (6 credits): |
| ME | 477 | Manufacturing Processes | 3 |
| MSE | 474 | Ceramics and Refractory Materials | 3 |
| MSE | 460 | Electronic Structure and Bonding in Materials |  |
|  |  | and Devices | 3 |
| MSE | 465 | Design and Application of Engineering Materials | 3 |
| MSE | 476 | Physical Metallurgy of Ferrous and Aluminum Alloys | 3 |

2.

3.

4. At least 3 credits from a list of approved technical electives 3

* + 1. Under **Polymeric Engineering** replace the entire entry with the following:

To gain interdisciplinary skills to facilitate interactions with chemical engineers and earn a Bachelor of Science degree in Materials Science and Engineering with a polymeric engineering concentration, students must complete requirement 3. a. above and the following (22 credits):

1. All of the following courses (19 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| CE | 321 | Introduction to Fluid Mechanics | 4 |
| CEM | 251 | Organic Chemistry I | 3 |
| Or |  |  |  |
| CEM | 351 | Organic Chemistry I | 3 |
| CEM | 252 | Organic Chemistry II | 3 |
| Or |  |  |  |
| CEM | 352 | Organic Chemistry II | 3 |
| CHE | 472 | Composite Materials Processing | 3 |
| CHE | 473 | Chemical Engineering Principles in Polymers |  |
|  |  | and Materials Systems | 3 |
| MSE | 426 | Introduction to Composite Materials | 3 |

1. Complete at least 3 credits in courses selected from a list of approved technical electives available from the Department of Chemical Engineering and Materials Science.

Effective Fall 2022.

## COLLEGE OF HUMAN MEDICINE

1. Change the requirements for the **Professional Program in Human Medicine** leading to the **Doctor of Medicine** (M.D.) degree. The University Committee on Graduate Studies (UCGS) approved this request at its February 21, 2022 meeting.
	1. Under the heading **PROGRAM IN HUMAN MEDICINE** make the following changes:
		1. Under the heading ***Late Clinical Experience*** change ’20 weeks’ to ’18 weeks’.
		2. Under the heading **Requirements for the Doctor of Medicine Degree** in item 1., change the following:
			1. Delete the following courses:

|  |  |  |
| --- | --- | --- |
| HM | 651 | Advanced Skills and Knowledge in Medical School I 2 |
| HM | 652 | Advanced Skills and Knowledge in Medical School II 2 |
| HM | 653 | Advanced Skills and Knowledge in Medical School III 2 |
| HM | 654 | Advanced Skills and Knowledge in Medical School IV 2 |
| HM | 655 | Advanced Skills and Knowledge in Medical School V 2 |
| MED | 641 | Internal Medicine Clerkship in the Late Clinical |
|  |  | Experience 6 |

Add the following courses:

|  |  |  |  |
| --- | --- | --- | --- |
| HM | 651 | Advanced Skills and Knowledge in Medical School I | 3 |
| HM | 652 | Advanced Skills and Knowledge in Medical School II | 3 |
| HM | 653 | Advanced Skills and Knowledge in Medical School III | 3 |
| HM | 654 | Advanced Skills and Knowledge in Medical School IV | 3 |
| HM | 655 | Advanced Skills and Knowledge in Medical School V | 3 |
| MED | 641 | Internal Medicine Clerkship in the Late Clinical |  |
|  |  | Experience | 9 |

* + - 1. Change the total credits for item 1. from ‘132’ to ‘140’.
			2. In item 4., change ‘20’ weeks to ‘18’ weeks.
			3. In item 4., delete the following course:

EM 630 Emergency Medicine Clerkship 6

Effective Fall 2022.

## COLLEGE OF NATURAL SCIENCE

1. Change the requirements for the **Bachelor of Science** degree in **Biomedical Laboratory Science** in the Biomedical Laboratory Diagnostics Program.

*The concentrations in the Bachelor of Science degree in Biomedical Laboratory Science are noted on the student’s academic record when the requirements for the degree have been completed.*

* 1. Under the heading **Requirements for the Bachelor of Science Degree in Biomedical Laboratory Science** make the following changes:
		1. Change item 3. c. to ‘One of the following concentrations’.
		2. In item 3. c. delete the following concentrations:

### Immunology Molecular Diagnostics

**Minor in Information Technology**

* + 1. In item 3. c. under the **Medical Microbiology** concentration, add the following course under item (2):

BLD 461 Advanced Biomedical Technologies 3

* + 1. In item 3. c., add the following concentration:

**Advanced Biomedical Technologies** (11 or 12 credits):

* + - 1. All of the following courses (8 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| BLD | 461 | Advanced Biomedical Technologies | 3 |
| BLD | 461L | Advanced Biomedical Technologies Laboratory | 1 |
| CMSE | 201 | Computational Modeling and Data Analysis I | 4 |

* + - 1. One of the following, either (a) or (b) (3 or 4 credits):

|  |
| --- |
| (a) All of the following courses: |
| BLD | 439 | Histocompatibility and Immunogenetics | 1 |
| BLD | 446 | Immunobiology Neoplasia | 1 |
| BLD | 447 | Immunotherapy and Immunomodulation | 1 |
| (b) One of the following courses: |
|  | CMSE | 202 | Computational Modeling and Data |  |
|  |  |  | Analysis II | 4 |
|  | MMG | 431 | Microbial Genetics | 3 |
|  | MMG | 465 | Advanced Medical Microbiology | 3 |
| Effective Fall 2022. |  |  |  |  |

1. Change the requirements for the **Bachelor of Arts or Bachelor of Science** degree in **Statistics** in the Department of Statistics and Probability.
	1. Under the heading **Requirements for the Bachelor of Arts or Bachelor of Science Degree in Statistics** make the following changes:

|  |  |
| --- | --- |
| (1) Replace item 3. a. (5) with the following: |  |
| One of the following courses (4 credits):CMSE 201 Computational Modeling and Data Analysis I | 4 |
| CSE 231 Introduction to Programming I | 4 |
| (2) Change the credits of 3. b. from ‘9’ to ‘10’. |  |
| (3) In item 3. b. (1) delete the following course: |  |
| STT 301 Computational Methods for Data Science | 3 |

Add the following course:

STT 180 Introduction to Data Science 4

(4) Replace item 3. e. (3) with the following:

CSE 232 or 260 or any 300-level or higher CSE course; or CMSE 281 or any 400-level or higher CMSE course;

Effective Summer 2022.

## COLLEGE OF NURSING

1. Change the requirements for the **Doctor of Philosophy** degree in **Nursing**. The University Committee on Graduate Studies (UCGS) approved this request at its February 14, 2022 meeting.
	1. Under the heading **Admission** delete the following:

(2) Competitive scores on the Graduate Record Examination Verbal, Quantitative, and Analytic sections completed within last five years.

* 1. Replace the paragraph following **Admission** with the following:

Applicants with completed materials are reviewed by a faculty committee. Applicants identified as well-matched with the College of Nursing academic standards and program focus will be contacted for a required personal interview and written evaluation with representatives from the doctoral program faculty. Recommendations for admission are made by the faculty committee to the Director of the Doctoral Program and the Dean of the College based on the requirements for admission and the personal interview.

Effective Summer 2022.

## COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the **Bachelor of Arts** degree **in Political Science (General)** in the Department of Political Science.
	1. Under the heading **Requirements for the Bachelor of Arts Degree in Political Science (General)** replace item 3. with the following:
		1. The following course (4 credits):

PLS 200 Introduction to Political Science 4

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

PLS 201 Introduction to Methods of Political Analysis 4

PLS 202 Introduction to Data Analytics and the Social Sciences 3

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

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 392 | Special Topics in Political Science | 3 to 4 |
| PLS | 397 | Analyzing and Visualizing Data in Politics | 3 |
| One of the following courses (4 credits): |
| PLS | 422 | Seminar in Political Science (W) | 4 |
| PLS | 481 | Undergraduate Research Seminar | 4 |
| Two of the following courses (6 credits): |
| PLS | 100 | Introduction to American Politics | 3 |
| PLS | 140 | Introduction to Comparative Politics | 3 |
| PLS | 160 | Introduction to International Relations | 3 |
| PLS | 170 | Introduction to Political Philosophy | 3 |

d.

e.

These courses may also meet subfield requirements.

1. Complete a minimum of four courses in Political Science at the 300 -400 level (12 credits) These courses may only count toward the 300-400 level requirement if completed a second time with the exception of PLS 397.

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 392 | Special Topics in Political Science | 3 to 4 |
| PLS | 397 | Analyzing and Visualizing Data in Politics | 3 |
| PLS | 422 | Seminar in Political Science (W) | 4 |
| PLS | 481 | Undergraduate Research Seminar | 4 |
| Only one of the following courses may count toward the 300-400 level requirement: |
| PLS | 494 | Field Experience in Political Science | 3 to 4 |
| PLS | 495 | Independent Study | 1 to 6 |

1. At least one courses is required from three of the following subfields: American Politics, Comparative Politics, International Politics, or Political Philosophy. These courses may meet the 300-400 level requirement.

### American Politics

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 100 | Introduction to American Politics | 3 |
| PLS | 301 | American State Government | 3 |
| PLS | 302 | Urban Politics | 3 |
| PLS | 304 | Minority Politics | 3 |
| PLS | 310 | Public Administration and Policy Making | 3 |
| PLS | 313 | American Public Policy | 3 |
| PLS | 320 | Judicial Politics | 3 |
| PLS | 321 | Constitutional Law | 3 |
| PLS | 322 | Comparative Legal Systems | 3 |
| PLS | 324 | Congress | 3 |
| PLS | 325 | The Presidency | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 333 | Public Opinion and Political Behavior | 3 |
| PLS | 334 | Campaigns and Elections | 3 |
| **Comparative Politics** |
| PLS | 140 | Introduction to Comparative Politics | 3 |
| PLS | 342 | Comparative Political Economy | 3 |
| PLS | 344 | Politics of Developing Areas | 3 |
| PLS | 345 | Religion and World Politics | 3 |
| PLS | 346 | Middle East Politics | 3 |
| PLS | 347 | Democratic Regimes | 3 |
| PLS | 351 | African Politics | 3 |
| PLS | 354 | Politics of Asia | 3 |
| PLS | 356 | Politics of Europe and the European Union | 3 |
| PLS | 357 | Politics of English Speaking Democracies | 3 |
| PLS | 358 | Politics of the U.S.S.R. and Its Successor States | 3 |
| **International Politics** |
| PLS | 160 | Introduction to International Relations | 3 |
| PLS | 362 | American Foreign Policy and National Security | 3 |
| PLS | 363 | International and Domestic Political Conflict | 3 |
| PLS | 364 | Politics of the United Nations and International Organizations | 3 |
| **Political Philosophy** |
| PLS | 170 | Introduction to Political Philosophy | 3 |
| PLS | 371 | Classical Political Philosophy | 3 |
| PLS | 372 | Modern Political Philosophy | 3 |
| PLS | 377 | American Political Thought | 3 |

Effective Fall 2022.

1. Change the requirements for the **Bachelor of Arts** degree **in Political Science-Prelaw** in the Department of Political Science.

### Under the heading Requirements for the Bachelor of Arts Degree in Political Science-Prelaw

replace item 3. with the following:

* + 1. Both of the following course (7 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 100 | Introduction to American Politics | 3 |
| PLS | 200 | Introduction to Political Science | 4 |
| One of the following courses (3 or 4 credits): |
| PLS | 201 | Introduction to Methods of Political Analysis | 4 |
| PLS | 202 | Introduction to Data Analytics and the Social Sciences | 3 |
| One of the following courses (3 credits): |
| PLS | 320 | Judicial Politics | 3 |
| PLS | 321 | Constitutional Law | 3 |
| One of the following courses (3 or 4 credits): |
| PLS | 392 | Special Topics in Political Science | 3 to 4 |
| PLS | 397 | Analyzing and Visualizing Data in Politics | 3 |
| One of the following courses (4 credits): |
| PLS | 422 | Seminar in Political Science (W) | 4 |
| PLS | 481 | Undergraduate Research Seminar | 4 |
| One of the following courses (6 credits): |
| PLS | 140 | Introduction to Comparative Politics | 3 |
| PLS | 160 | Introduction to International Relations | 3 |
| PLS | 170 | Introduction to Political Philosophy | 3 |

b.

c.

d.

e.

f.

These courses may also meet subfield requirements.

1. Complete a minimum of three courses in Political Science at the 300 -400 level (12 credits). These courses may only count toward the 300-400 level requirement if completed a second time with the exception of PLS 397.

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 392 | Special Topics in Political Science | 3 to 4 |
| PLS | 397 | Analyzing and Visualizing Data in Politics | 3 |
| PLS | 422 | Seminar in Political Science (W) | 4 |
| PLS | 481 | Undergraduate Research Seminar | 4 |
| Only one of the following courses may count toward the 300-400 level requirement: |
| PLS | 494 | Field Experience in Political Science | 3 to 4 |
| PLS | 495 | Independent Study | 1 to 6 |

1. At least one courses is required from three of the following subfields: American Politics, Comparative Politics, International Politics, or Political Philosophy. These courses may meet the 300-400 level requirement.

### Comparative Politics

|  |  |  |  |
| --- | --- | --- | --- |
| PLS | 140 | Introduction to Comparative Politics | 3 |
| PLS | 342 | Comparative Political Economy | 3 |
| PLS | 344 | Politics of Developing Areas | 3 |
| PLS | 345 | Religion and World Politics | 3 |
| PLS | 346 | Middle East Politics | 3 |
| PLS | 347 | Democratic Regimes | 3 |
| PLS | 351 | African Politics | 3 |
| PLS | 354 | Politics of Asia | 3 |
| PLS | 356 | Politics of Europe and the European Union | 3 |
| PLS | 357 | Politics of English Speaking Democracies | 3 |
| PLS | 358 | Politics of the U.S.S.R. and Its Successor States | 3 |
| **International Politics** |
| PLS | 160 | Introduction to International Relations | 3 |
| PLS | 362 | American Foreign Policy and National Security | 3 |
| PLS | 363 | International and Domestic Political Conflict | 3 |
| PLS | 364 | Politics of the United Nations and International Organizations | 3 |
| **Political Philosophy** |
| PLS | 170 | Introduction to Political Philosophy | 3 |
| PLS | 371 | Classical Political Philosophy | 3 |
| PLS | 372 | Modern Political Philosophy | 3 |
| PLS | 377 | American Political Thought | 3 |

Effective Fall 2022.

# PART II - NEW COURSES

## BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 461 Advanced Biomedical Technologies

Fall of every year. 3(3-0) P: (BLD 430) and (BLD 434 or MMG 451) RB: BLD 314L R: Open to students in the Biomedical Laboratory Science Major.

Common and specialized molecular and antibody-based diagnostic technologies applied to medical diagnostics and related biomedical research applications.

SA: BLD 460

Effective Fall 2022

BLD 461L Advanced Biomedical Technologies Laboratory

Fall of every year. 1(0-3) P: (BLD 461 or concurrently) and (BLD 314L or concurrently) R: Open to students in the Biomedical Laboratory Science Major.

Laboratory in molecular and antibody-based technologies with emphasis on clinical and diagnostic applications.

SA: BLD 430L, BLD 452L

Effective Fall 2022

## DEPARTMENT OF ENGLISH

ENG 315 Readings in British Literatures

Fall of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: {Completion of Tier I Writing Requirement} or (ENG 210 or ENG 211H) RB: 3 credits of literature R: Not open to freshmen.

REINSTATEMENT Extensive readings of texts from the British Isles and Empire, selected across genres, historical periods, and/or regions.

Effective Fall 2022

ENG 317 Readings in African and Caribbean Literatures

Fall of even years. 3(3-0) P: {(ENG 126 or ENG 140 or ENG 142 or ENG 153 or ENG 204 or ENG 205 or ENG 206 or ENG 218) and (ENG 126 or ENG 140 or ENG 142 or ENG 153 or ENG 204 or

ENG 205 or ENG 206 or ENG 218)} or (ENG 210 or ENG 211H) RB: Six credits of literature R: Open to undergraduate students in the College of Arts and Letters or in the Department of English or in the Arts and Letters - General Major or in the English Secondary Teaching Major.

REINSTATEMENT Extensive readings of texts by African and Caribbean writers across genres, historical periods, and regions.

SA: ENG 363, ENG 463

Effective Fall 2022

## DEPARTMENT OF FINANCE

FI 381 Enterprise Risk Management and Insurance Theory

Spring of every year. 3(3-0) P: FI 380 R: Open to students in the Insurance and Risk Management Minor.

Using Enterprise Risk Management to identify and manage business risk in any industry. Risk identification, ERM processes, structures for individual and business-to-business insurance coverages, and new and creative alternative risk management structures.

Effective Spring 2023

## DEPARTMENT OF HISTORY

HST 804 Advanced Research and Professional Development Seminar Spring of every year. 3(3-0) P: HST 803

Historical research techniques, methodologies, and professional development. Effective Spring 2024

HST 901 Writing the Dissertation

Fall of every year. Spring of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open to graduate students in the College of Social Science or in the Department of History or in the History Major.

Practical and theoretical issues related to the completion of the dissertation thesis. Effective Fall 2022

## COLLEGE OF HUMAN MEDICINE

HM 607 Medical Reading Elective

Fall of every year. Spring of every year. Summer of every year. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: HM 556 R: Open to graduate- professional students in the College of Human Medicine.

Medical readings and written reflections on resiliency, burnout, humanism in medicine, and patient stories to increase confidence in future physicians.

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

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

Effective Spring 2022

## SCHOOL OF JOURNALISM

JRN 404 Sports Broadcast and Production

Fall of every year. Spring of every year. 3(0-6) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Hands-on broadcast sports reporting, storytelling in a team setting focused on Michigan State University athletics. Report on-the-field sporting events and help produce weekly sports broadcasts. Basic camera operation, live sports event producing, broadcast and sideline reporting, anchoring, play-by-play announcing, floor direction, teleprompter operation and use, camera and soundboard operation, social media engagement.

Effective Fall 2022

JRN 406A Broadcast News III: Advanced Reporting

Fall of every year. Spring of every year. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. P: JRN 403 or approval of department R: Approval of department. A student may earn a maximum of 12 credits JRN 406A and 406B.

Announcing and reporting for broadcast news. Honing skills in video, audio, broadcast writing, news storytelling, interviewing and reporting. Develop social media strategies for journalism content and create a professional portfolio for future employers.

Effective Fall 2022

JRN 406B Broadcast News Producing

Fall of every year. Spring of every year. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. A student may earn a maximum of 12 credits JRN 406A and 406B.

Work behind the scenes to produce the weekly award-winning student newscast, "Focal Point." Put together a newscast rundown, write for newscasts, run social media feeds, post content to digital platforms and work with reporters and anchors as part of a team. Effective Fall 2022

JRN 488 Visual Storytelling in Kenya

Summer of every year. Africa, Africa, Africa 4(2-4) R: Approval of department.

Education abroad. Connect with East African visual storytellers, including photographers, filmmakers, visual artists, and designers. Visit museums, galleries, studios, media and advertising companies. Practical experience includes creating, editing, and packaging visual content. Partner with a non-profit to create a project supporting their mission while building your portfolios and resumes. Learn about sustained dialogue, a process that seeks to transform relationships for the better through meaningful dialogue. Travel on safari in the Kenyan wilderness.

Request the use of ET-Extension to postpone grading.

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

Effective Summer 2022

## DEPARTMENT OF MANAGEMENT

MGT 828 Strategic Control

Fall of every year. Spring of every year. Summer of every year. 1 to 2 credits. P: MGT 850 or MBA 850 R: Open to master's students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to MBA students in the Master of Business Administration in Business Administration or approval of department. Not open to students with credit in ACC 841.

Design of strategic management control systems and use of managerial accounting data to support strategy implementation, performance monitoring, and change.

Effective Fall 2022

MGT 843 Innovation and Entrepreneurship

Fall of every year. Spring of every year. Summer of every year. 1 to 2 credits. P: MGT 850 R: Open to master's students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to MBA students in the Master of Business Administration in Business Administration or approval of department. Not open to students with credit in MGT 852 or PIM 832.

Managing innovation and launching a new business. Effective Fall 2022

## DEPARTMENT OF TEACHER EDUCATION

TE 342 Teaching Methods for (Bi)multilingual Learners

Fall of every year. Spring of every year. Summer of every year. 3(3-1) P: (TE 341 and LLT 307) and completion of Tier I writing requirement RB: Documented experience learning a second language equivalent to two semesters’ worth of college-level study in order to gain an understanding and appreciation of the processes of learning an additional language. R: Open to students in the Teaching English to Speakers of Other Languages Disciplinary Teaching Minor.

Pedagogical principles based on research of language development in bi/multilingual students in the K-12 system. Methods of standards-based curricular and instructional design. Issues of assessment for (bi)multilingual learners.

Effective Spring 2023

# PART III – COURSE CHANGES

## BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM

BLD 430 Molecular Diagnostics

Spring of every year. 2(2-0) ~~P~~: ~~(B~~S ~~16~~1 ~~o~~r ~~L~~B ~~14~~5 ~~o~~r ~~B~~S 181H) ~~an~~d ~~(BL~~D 2~~0~~4 and ~~BL~~D 313) P: BS 161 or LB 145 or BS 181H RB: BLD 204 and BLD 313

Concepts and principles of molecular analysis applied to medical diagnostics and related applications.

SA: MT 430

~~Effectiv~~e Fa~~l~~l 2018 Effective Summer 2022

BLD 430L Molecular Diagnostics Laboratory

Fall of every year. 1(0-3) P: BLD 430 R: Open to undergraduate students in the Biomedical Laboratory Diagnostics Program or approval of department.

Molecular technologies with emphasis on clinical and diagnostic applications. DELETE COURSE

Effective Summer 2022

BLD 443 Introduction to Laboratory Information Systems

Spring of every year. 3(3-0) P: (CSE 201 or CSE 231) and (MTH 124 or MTH 132) and BLD 213L R: Open to students in the Information Technology Minor.

Purpose and function of information systems components used in medical laboratories. Practical applications of system selection, validation, maintenance, problem resolution and report generation.

DELETE COURSE

Effective Fall 2022

BLD 444 Laboratory Information Technology Practicum and Project Management

Summer of every year. 3(0-40) P: BLD 443 and ITM 311 RB: Biomedical Laboratory Science major. R: Open to students in the Information Technology Minor. Approval of department.

Gain experience in using, maintaining and managing quality of a laboratory information system at a clinical or public health laboratory site. Project management principles and application.

DELETE COURSE

Effective Fall 2022

BLD 452L Immunodiagnostics Laboratory

Spring of every year. 1(0-3) P: BLD 314L and BLD 434 R: Open to students in the Biomedical Laboratory Science Major or approval of department. Not open to students with credit in BLD 852.

Performance of immunopurifications, in vitro diagnostic assays and basic flow cytometry. Data analysis and quality control evaluation.

DELETE COURSE

Effective Summer 2022

BLD 460 Advanced Molecular Diagnostics

Fall of every year. 2(2-0) P: BLD 430 R: Open to students in the Lyman Briggs College or in the College of Natural Science.

Common and specialized molecular diagnostic technologies applied to medical diagnostics and related applications.

DELETE COURSE

Effective Summer 2022

## THE ELI BROAD COLLEGE OF BUSINESS

~~MK~~T 211

IBUS 211 Business and Culture Seminar

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. ~~R~~: ~~Ope~~n ~~t~~o undergradu~~at~~e stude~~nt~~s ~~i~~n the Accounti~~n~~g ma~~jo~~r ~~o~~r ~~i~~n ~~th~~e Bu~~sines~~s - ~~Admitte~~d major ~~o~~r ~~i~~n ~~th~~e Business-Preference ~~majo~~r ~~o~~r ~~i~~n the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major ~~o~~r appr~~ova~~l ~~o~~f college. R: Open to undergraduate students in the Accounting major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Supply Chain Management Major or in the Business - Admitted major or in the Business-Preference major or in the Marketing Major or approval of college.

International speaker series providing an overview of the business and cultural environment in a particular world region.

SA: MKT 211

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

~~BU~~S 292

IBUS 292 Special Topics In Business Abroad

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~~: ~~Ope~~n ~~t~~o undergradu~~at~~e stude~~nt~~s ~~i~~n the The Eli Broad College of Business or in the Accounting major or in the Business - Admitted major ~~o~~r ~~i~~n ~~th~~e Business-Preferen~~c~~e ~~majo~~r ~~o~~r ~~i~~n ~~th~~e Fi~~nanc~~e Ma~~jo~~r ~~o~~r ~~i~~n ~~th~~e Hum~~a~~n Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management ~~Majo~~r ~~o~~r ~~i~~n the Hospita~~lit~~y Busine~~s~~s Major ~~o~~r appr~~ova~~l ~~o~~f college. R: Open to undergraduate students in the The Eli Broad College of Business or in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major or approval of college.

Education abroad emphasizing an introduction to the functional fields in business abroad and their interrelationships. Review of fundamental concepts and principles of business abroad.

SA: BUS 292

~~Effectiv~~e Spring 2021 Effective Fall 2022

~~MK~~T 310

IBUS 310 International Business

Fall of every year. Spring of every year. Summer of every year. 3(3-0) R: Open to juniors or seniors in the Accounting major or in the Business - Admitted major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Supply Chain Management Major or in the Marketing Major or in the Applied Engineering Sciences Major.

International and cross-cultural study of business decisions, enterprises, markets, and institutions. Globalization of industries and firm competitiveness. International business transactions and entry strategies.

~~SA~~: ~~MS~~C ~~31~~0 SA: MSC 310, MKT 310

~~Effectiv~~e ~~Summe~~r 2019 Effective Fall 2022

~~MK~~T 393

IBUS 393 Introduction to International Business

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. Interdepartmental with Accounting and Finance and General Business and Business Law and Hospitality Business and Management and Supply Chain Management. R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the School of Hospitality Business.

Introduction to the context of international business delivered on-site in foreign settings. Fundamental concepts and principles of globalization such as multinational corporations, foreign markets and economies, internal and external market transactions, international law, cultural influences, and multinational business strategies.

Request the use of ET-Extension to postpone grading.

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

SA: MKT 393

~~Effectiv~~e Spring 2020 Effective Fall 2022

~~BU~~S 393

IBUS 394 Business Service Learning Abroad

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~~: ~~Ope~~n ~~t~~o undergradu~~at~~e stude~~nt~~s ~~i~~n the T~~h~~e ~~El~~i Broad Coll~~eg~~e ~~o~~f Busi~~nes~~s ~~o~~r ~~i~~n ~~th~~e Accounti~~n~~g ma~~jo~~r ~~o~~r ~~i~~n ~~th~~e Bu~~sines~~s - ~~Admitte~~d major ~~o~~r ~~i~~n ~~th~~e Finance ~~Majo~~r ~~o~~r ~~i~~n t~~h~~e Hospital~~it~~y Busine~~s~~s Major ~~o~~r ~~i~~n ~~th~~e Hum~~a~~n Resource Management ~~Majo~~r ~~o~~r ~~i~~n the Management ~~Majo~~r ~~o~~r ~~i~~n the ~~Marketin~~g Major ~~o~~r ~~i~~n ~~th~~e Su~~ppl~~y Chain Management ~~Majo~~r ~~o~~r ~~i~~n the Business-Prefer~~enc~~e major ~~o~~r appr~~ova~~l ~~o~~f college. R: Open to undergraduate students in the The Eli Broad College of Business or in the Accounting major or in the Business - Admitted major or in the Business-Preference major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major or approval of college.

Civil engagement practices and theories. Impact of non-profit organizations, practices of engaged citizenship. Volunteer placements at civic organizations.

SA: BUS 393

~~Effectiv~~e Spring 2021 Effective Fall 2022

~~BU~~S 492

IBUS 492 Advanced Topics Abroad

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~~: ~~Ope~~n ~~t~~o undergradu~~at~~e stude~~nt~~s ~~i~~n the T~~h~~e ~~El~~i Broad Coll~~eg~~e ~~o~~f Busi~~nes~~s ~~o~~r ~~i~~n ~~th~~e Accounti~~n~~g ma~~jo~~r ~~o~~r ~~i~~n ~~th~~e Fin~~anc~~e Ma~~jo~~r ~~o~~r in the ~~Huma~~n Resour~~c~~e Management ~~Majo~~r ~~o~~r ~~i~~n t~~h~~e Management ~~Majo~~r ~~o~~r ~~i~~n t~~h~~e Marketi~~n~~g ~~Majo~~r ~~o~~r in ~~th~~e Supp~~l~~y Ch~~ai~~n Management ~~Majo~~r ~~o~~r ~~i~~n t~~h~~e Hospital~~it~~y Busine~~s~~s Major ~~o~~r approv~~a~~l ~~o~~f college.

R: Open to undergraduate students in the The Eli Broad College of Business or in the Accounting major or in the Finance Major or in the Hospitality Business Major or in the Human Resource Management Major or in the Management Major or in the Marketing Major or in the Supply Chain Management Major or approval of college.

Education abroad emphasizing an advanced study of interrelatedness of business functions abroad not typically found in business academic departments.

SA: BUS 492

~~Effectiv~~e Spring 2021 Effective Fall 2022

## DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE

CHE 201 Material and Energy Balances

Fall of every year. Spring of every year. Summer of every year. 3(4-0) 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 2021 Effective Fall 2022

CHE 472 Compos~~it~~e Mate~~rial~~s Processing

Polymeric Composite Materials Processing

Fall of every year. 3(2-3) Interdepartmental with Materials Science and Engineering. ~~P~~: ~~CH~~E 311 or ~~M~~E ~~33~~2 ~~o~~r ~~C~~E 321 P: (CHE 311 or ME 332 or CE 321) or (MSE 360 and MSE 370)

Manufacturing processes for thermoset and thermoplastic matrix composites. Mechanical and thermal evaluation of composites. Rheology and molding of fiber-filled materials.

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

CHE 473 Chemical Engineering Principles in Polymers and Materials Systems

Spring of every year. 3(3-0) Interdepartmental with Materials Science and Engineering. ~~P~~: ~~CH~~E 311 ~~an~~d CHE ~~32~~1 ~~an~~d CHE ~~43~~1 ~~an~~d ~~CE~~M 352 P: {(CHE 321 and CHE 431) or (MSE 360 and MSE 370)} and (CHE 311 or ME 332 or CE 321) and (CEM 252 or CEM 352)

Application of chemical engineering principles to polymer and materials systems. Structures and properties of metals, ceramics and polymers. Thermodynamics, synthesis, rubber elasticity, viscoelasticity, kinetics, rheology, and processing of polymers systems. Application of statistics and problem-solving skills to materials systems.

SA: CHE 371

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

## DEPARTMENT OF CHEMISTRY

CEM 351 Organic Chemistry I

Fall of every year. 3(4-0) P: CEM 152 or CEM 182H or CEM 142 or LB 172 ~~No~~t op~~e~~n ~~t~~o students ~~wit~~h ~~credi~~t ~~i~~n CEM 251.

Structure, bonding, and reactivity of organic molecules. ~~Effectiv~~e Spring 2013 Effective Fall 2022

CEM 352 Organic Chemistry II

Spring of every year. 3(4-0) P: CEM 351 Not open ~~t~~o studen~~t~~s ~~wit~~h ~~credi~~t ~~i~~n ~~CE~~M 252.

Carboxylate derivatives. Conjugation. Aromaticity. Amino acids. Proteins. Carbohydrates. Nucleic acids.

~~Effectiv~~e Spring 2013 Effective Spring 2023

## DEPARTMENT OF COMMUNITY SUSTAINABILITY

CSUS 464 Environmental and Natural Resource Policy in Michigan

Spring of every year. 3(3-0) Interdepartmental with Environmental Economics and Management. P: ~~CSU~~S 200 ~~o~~r ~~EE~~M ~~25~~5 ~~o~~r approv~~a~~l ~~o~~f department P: CSUS 200 or AFRE 265 or approval of department

State legislative process and its role in environmental and natural resource policy formulation. Influence of lobbying, citizen engagement and political factors.

SA: ESA 440, RD 440

~~Effectiv~~e Spring 2019 Effective Summer 2022

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CSE 100 Computer Science as a Profession

Fall of every year. Spring of every year. 1(1-0) RB: High school algebra; ability to use a computer for browsing, email, and report preparation.

The computing and programming profession. Professionalism and ethics. Industry practice. Experiments with programming.

DELETE COURSE

Effective Fall 2022

CSE 101 Computing Concepts and Competencies

Fall of every year. Spring of every year. Summer of every year. 3(2-2)

Core concepts in computing including information storage, retrieval, management, and representation. Applications from specific disciplines. Applying core concepts to design and implement solutions to various focal problems, using hardware, multimedia software, communication and networks.

SA: CPS 100, CPS 130 DELETE COURSE

Effective Fall 2022

CSE 201 Fundamentals of Information Technology

Fall of every year. Spring of every year. 3(3-0) P: (CSE 102 or CSE 220 or CSE 231) and (MTH 103 or MTH 103B or MTH 116 or MTH 124 or MTH 132 or MTH 152H or LB 118) RB: high school algebra; literacy in web and computer tools, such as editor and browser.

Fundamentals of applied computing and computational thinking. SA: CSE 240

DELETE COURSE

Effective Fall 2022

## DEPARTMENT OF ENGLISH

ENG 280 Introduction to Literary Theories

Fall of every year. Spring of every year. 3(3-0) P: ENG 210 ~~R~~: ~~Ope~~n ~~t~~o undergrad~~uat~~e stu~~dent~~s in ~~th~~e Department ~~o~~f English.

Literary and critical theory. How literature is constituted and how representation works. Assumptions behind and limits of a range of theoretical approaches. Application of theory to literary texts.

Effective Fall 2022

ENG 320A Methodologies of Literary History: Genre

On Demand. 3(3-0) ~~P~~: ~~EN~~G ~~21~~0 and ~~EN~~G 280 P: ENG 210 ~~R~~: ~~Ope~~n ~~t~~o undergradua~~t~~e stude~~nt~~s in ~~th~~e Engl~~is~~h Major.

Examination of literary works in relation to historical change, seen through the lens of genre. Reflection on the theories and practices of literary history.

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

ENG 320B Methodologies of Literary History: Region, School, or Movement

On Demand. 3(3-0) ~~P~~: ~~EN~~G ~~21~~0 and ~~EN~~G 280 P: ENG 210 ~~R~~: ~~Ope~~n ~~t~~o ~~student~~s ~~i~~n ~~th~~e Department ~~o~~f English ~~o~~r ~~i~~n ~~th~~e English ~~Majo~~r ~~o~~r ~~i~~n the English Disciplin~~ar~~y Teachi~~n~~g ~~Mino~~r ~~o~~r ~~i~~n Langua~~g~~e Arts Element~~ar~~y Teaching Major.

Examination of literary works in relation to historical change, seen through the lens of geographical networks and/or aesthetic alliances. Reflection on the theories and practices of literary history.

Effective Fall 2022

ENG 320C Methodologies of Literary History: Canon Formation

On Demand. 3(3-0) ~~P~~: ~~EN~~G ~~21~~0 and ~~EN~~G 280 P: ENG 210 ~~R~~: ~~Ope~~n ~~t~~o undergradua~~t~~e stude~~nt~~s in ~~th~~e Department ~~o~~f ~~Englis~~h ~~o~~r in ~~th~~e Engl~~is~~h Discipl~~inar~~y Teac~~hin~~g Minor.

Examination of literary works in relation to historical change, through the lens of why canons form, or debates over canonical inclusion. Reflection on the theories and practices of literary history.

Effective Fall 2022

ENG 413 Critical Questions in Language and Composition (W)

Fall of every year. Spring of every year. 4(3-2) 3(3-0) P: ENG 302 and Completion of Tier I Writing Requirement R: Open to juniors or seniors in the English Secondary Teaching Major and open to juniors or seniors in the English Disciplinary Teaching Minor.

Intensive writing workshop with focus on writing theory and research, writing in response to literature, and the writing process.

SA: ENG 313

~~Effectiv~~e Spring 2014 Effective Fall 2022

ENG 484B Critical Questions in Region, School, Movement

Spring of every year. 4(4-0) 3(3-0) P: ENG 360 or ENG 362 or ENG 364 or ENG 368 R: Open to seniors in the Department of English.

Intensive study of literary networks connected through geography and/or aesthetics. Writing that integrates archival, primary, or secondary sources and contributing to discussion in the field.

~~Effectiv~~e Spring 2015 Effective Fall 2022

ENG 484C Critical Questions in a Literary Period

Fall of every year. 4(4-0) 3(3-0) P: ENG 360 or ENG 362 or ENG 364 or ENG 368 RB: Prior course work in the literary period. R: Open to seniors in the Department of English.

Intensive study of current issues in a particular literary period. Writing that integrates archival, primary, or secondary sources and contributing to discussion in the field.

~~Effectiv~~e Spring 2015 Effective Fall 2022

ENG 484D Critical Questions in a National Literature

Spring of every year. 4(4-0) 3(3-0) P: ENG 360 or ENG 362 or ENG 364 or ENG 368 R: Open to seniors in the Department of English.

Intensive study of current issues situated within the literature of a particular nation. Writing that integrates archival, primary, or secondary sources and contributing to discussion in the field.

~~Effectiv~~e Spring 2015 Effective Fall 2022

ENG 484E Creative Writing Capstone

Fall of every year. Spring of every year. 4(4-0) 3(3-0) P: ENG 423 or ENG 428 or ENG 429 R: Open to undergraduate students in the College of Arts and Letters or in the Department of English or in the English Major.

Intensive study and practice of creative writing. Independent, sustained creative writing projects in a single genre or hybrid genre. May integrate archival and secondary sources and contribute to discussion in the field.

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

ENG 493 English Internship

Fall of every year. Spring of every year. 1 ~~t~~o 4 credits. 1 to 3 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement RB: 15 credits of English. R: Open to juniors or seniors in the Department of English or in the English Major.

Supervised pre-professional field experience in English. Request the use of the Pass-No Grade (P-N) system. ~~Effectiv~~e ~~Summe~~r 2017 Effective Fall 2022

FLM 255 Stars and Directors

Fall of every year. 3(3-2) ~~P~~: Completi~~o~~n ~~o~~f Ti~~e~~r I Wr~~itin~~g Requirement Survey of individual film directors and/or stars.

~~Effectiv~~e Fa~~l~~l 2016 Effective Fall 2022

## DEPARTMENT OF FINANCE

FI 380 Principles of Insurance and Risk Management

Fall of every year. 3(3-0) ~~P~~: ~~(F~~I ~~31~~1 ~~o~~r FI 320) ~~an~~d (STT ~~20~~0 ~~o~~r STT ~~20~~1 ~~o~~r STT ~~23~~1 ~~o~~r STT ~~31~~5 or STT ~~35~~1 ~~o~~r STT ~~42~~1 ~~o~~r STT 441) P: (FI 311 or FI 311H or FI 320) and (STT 200 or STT 201 or

STT 231 or STT 315 or STT 351 or STT 421 or STT 441) RB: Knowledge of calculus is recommended but not required. ~~R~~: ~~Ope~~n ~~t~~o students ~~i~~n the Insura~~nc~~e and ~~Ris~~k Managem~~en~~t Minor ~~o~~r appr~~ova~~l ~~o~~f department. R: Open to students in the Insurance and Risk Management Minor and open to students in the Financial Planning and Wealth Management Minor or approval of department.

Overview of 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.

~~Effectiv~~e Fa~~l~~l 2018 Effective Fall 2022

FI 890 Independent Study

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: MBA 822 RB: ~~MB~~A 832 R: Open to graduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management. Approval of department.

Faculty-guided research projects. ~~Effectiv~~e Fa~~l~~l 2013 Effective Fall 2022

FI 891 Topics In Finance

Fall of every year. Spring of every year. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. ~~P~~: (FI ~~80~~1 ~~o~~r ~~MB~~A ~~832~~) ~~o~~r ~~(PI~~M ~~84~~1 ~~an~~d PIM 842) P: MBA 822 or approval of department

Current and emerging issues in corporate finance, investments, and financial modeling to supplement and enrich existing courses.

~~Effectiv~~e Fa~~l~~l 2018 Effective Fall 2022

## DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

GEO 453 Metropolitan Environments: Urban Forms and Land Uses

~~Sprin~~g ~~o~~f ~~ever~~y year. Spring of odd years. 3(2-2) 3(3-0) ~~P~~: ~~GE~~O 221

Land ~~us~~e chan~~ge~~, ~~th~~e physical fabr~~i~~c ~~o~~f ~~th~~e ci~~ty~~, ~~an~~d ~~th~~e grow~~t~~h ~~o~~f regio~~na~~l ~~center~~s ~~i~~n the American urban landscape. Issues associated with urban developments, practices and patterns in the 20th century and the resulting metropolitan form and function. Extensive ~~us~~e ~~o~~f geograph~~i~~c informati~~o~~n ~~softwar~~e ~~i~~n spat~~ia~~l an~~alysis~~. Land use change, the physical fabric of the city, and the growth of metropolitan centers in a global comparative context. Issues associated with urbanization and current urban pressures, including in the resulting metropolitan form and function.

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

GEO 829 Collection and Analysis of Drone Imagery

Fall of even years. Spring of odd years. 4(2-4) 3(2-2) P: GEO 324 or approval of department RB: Advanced level remote sensing coursework.

Multi-pl~~atform~~, ~~senso~~r da~~t~~a coll~~ection~~, pre-proc~~essin~~g ~~an~~d ana~~lysi~~s ~~acros~~s differing subfield~~s~~; fieldw~~or~~k and analy~~sis~~. Multi-platform, sensor data collection, pre-processing and analysis across differing subfields; fieldwork and analysis. Platforms: multiple types of quadcopters, vertical takeoff and landing (VTOL) systems; sensors to be utilized

:multispectral, hyperspectral, thermal, red-edge, lidar. ~~Effectiv~~e Spring 2021 Effective Fall 2022

## DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES

HDFS 860 Youth Policy and Positive Youth Development Fall of every year. 3(3-0)

F~~edera~~l ~~an~~d st~~at~~e pol~~icie~~s and ~~thei~~r relationsh~~i~~p ~~t~~o ~~yout~~h developmen~~t~~. Federal and state policies affecting developmental opportunities for youth. Policies contributing to or undermining positive youth development outcomes.

SA: FCE 860

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

HDFS 861 Communi~~t~~y ~~Yout~~h Development

Positive Youth Development in Community Settings Fall of every year. 3(3-0)

Asset or strength-based community model for youth development. Holistic and dynamic understand~~in~~g ~~o~~f ~~yout~~h and communiti~~es~~. Individ~~ua~~l develop~~ment~~. Adolescents' interrelationships ~~wit~~h ~~thei~~r environmen~~ts~~. Strength-based or asset-based approach to community youth development. Positive youth development. Adolescents’ interrelationships with their environments. Emphasis on research, theory, and practice applied to communities throughout the U.S.

SA: FCE 861

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

## SCHOOL OF JOURNALISM

DS 442B Multicam Production for Sports (W)

Fall of every year. Spring of every year. 3(2-2) ~~P~~: ~~(D~~S ~~342~~) ~~an~~d Completi~~o~~n ~~o~~f Ti~~e~~r I Writing Requirement P: (DS 242) 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. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

DS 442C Multicam Production for News (W)

Fall of every year. Spring of every year. 3(2-2) ~~P~~: ~~(D~~S ~~342~~) ~~an~~d Completi~~o~~n ~~o~~f Ti~~e~~r I Writing Requirement P: (DS 242) 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. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

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~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~i~~n ~~th~~e Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and ~~Informatio~~n Major. R: Open to students in the School of Journalism or in the Media and Information Major or in the Fiction Filmmaking Minor.

Various issues, skills or themes relating to Digital Storytelling. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

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~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~i~~n ~~th~~e Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and ~~Informatio~~n Major. R: Open to students in the School of Journalism or in the Media and Information Major or in the Fiction Filmmaking Minor.

Various issues, skills or themes relating to Animation and Digital Storytelling. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

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~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~i~~n ~~th~~e Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and ~~Informatio~~n Major. R: Open to students in the School of Journalism or in the Media and Information Major or in the Fiction Filmmaking Minor.

Various issues, skills or themes relating to digital audio storytelling. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

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~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~i~~n ~~th~~e Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and ~~Informatio~~n Major. R: Open to students in the School of Journalism or in the Media and Information Major or in the Fiction Filmmaking Minor.

Various issues, skills or themes relating to filmmaking. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

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~~: ~~Ope~~n ~~t~~o stude~~nt~~s ~~i~~n ~~th~~e Documentary Production Minor or in the Fiction Filmmaking Minor or in the Journalism Major or in the Media and ~~Informatio~~n Major. R: Open to students in the School of Journalism or in the Media and Information Major or in the Fiction Filmmaking Minor.

Various issues, skills or themes relating to Multicam Production. ~~Effectiv~~e ~~Summe~~r 2021 Effective Fall 2022

JRN 306 Introduction ~~t~~o Radi~~o~~, Podcasti~~n~~g a~~n~~d TV News Broadcast News I: Intro to Reporting

Fall of every year. Spring of every year. Summer of every year. 3(2-2) P: (JRN 300 or concurrently) and JRN 206 or approval of department RB: Basic knowledge of video shooting and editing recommended

Fundamentals of audio storytelling. Introduction to broadcast style writing; scripting for ~~radi~~o ~~new~~s and podcasti~~ng~~; vo~~ic~~e ~~ton~~e a~~n~~d cadenc~~e~~. Exposure ~~t~~o professio~~na~~l cameras ~~fo~~r ~~vide~~o storie~~s~~. Fundamentals of audio storytelling. Introduction to broadcast-style writing; scripting for broadcast news; voice tone and cadence. Exposure to professional cameras for video stories.

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

JRN 403 TV News

Broadcast News II: Intermediate Reporting

Fall of every year. Spring of every year. 3(2-2) P: JRN 306 or approval of department RB: Students interested in Broadcast News reporting and producing. R: Open to students in the School of Journalism.

Creating vid~~e~~o ~~new~~s stories ~~fo~~r TV ~~an~~d digital ~~platforms~~. ~~Entry-leve~~l produci~~n~~g and anchoring for regular short newscasts. Introduction to broadcast style writing for video. Multi-media reporting ~~fo~~r TV ~~new~~s broadcasts. Creating video news stories for broadcast news platforms. Entry-level producing and anchoring for regular short news broadcasts. Introduction to broadcast-style writing. Multi-media reporting for news broadcasts.

~~Effectiv~~e Fa~~l~~l 2018 Effective Fall 2022

JRN 406 Advanced TV News Storytelling and Producing

Fall of every year. Spring of every year. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. P: JRN 403 or approval of department

Announcing, reporting, and producing newscasts for TV and digital platforms, honing skills in video, audio, broadcast writing, TV news storytelling, interviewing and reporting.

Advanced producing techniques, social media strategies for journalism and create a professional portfolio for future employers.

DELETE COURSE

Effective Fall 2022

## DEPARTMENT OF MANAGEMENT

MGT 804 International Management

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: MBA 824 or (MGT 810 or MGT 824 or approval of department) R: Open to graduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.

Management challenges and roles in a multinational business. Strategic planning in global firms, managing people in international organizations, leadership, and the future of international management.

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

MGT 811 Fundamentals of Human Resource Staffing

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. P: MGT 810 or concurrently R: Open to master's students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of department.

Fundamentals of human resource staffing. Legal issues; measurement, reliability, and validity; job analysis; performance assessment; and recruitment.

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

MGT 863 Negotiations

Negotiations and Conflict Resolution

Fall of every year. Spring of every year. Summer of every year. 1 to 2 credits. ~~R~~: ~~Ope~~n ~~t~~o master's ~~student~~s ~~i~~n the ~~El~~i Broad Colle~~g~~e ~~o~~f Busine~~s~~s ~~an~~d T~~h~~e ~~El~~i Br~~oa~~d Grad~~uat~~e School ~~o~~f Management ~~an~~d not open ~~t~~o ~~student~~s ~~i~~n the ~~Maste~~r ~~o~~f ~~Busines~~s Administ~~ratio~~n ~~i~~n Busine~~s~~s Administration. R: Open to master's students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to MBA students in the Master of Business Administration in Business Administration or approval of department.

Strategic negotiations, negotiation preparation, buyer-supplier relationship assessment, international negotia~~tions~~, and negotiation simulation. Strategic negotiations, negotiation preparation, buyer-supplier relationship assessment, international negotiations, negotiation simulation, and conflict resolution.

~~Effectiv~~e Fa~~l~~l 2018 Effective Fall 2022

MGT 873 Strategic Decision Making

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. ~~P~~: ~~MB~~A 850 ~~o~~r MGT ~~85~~0 ~~o~~r ~~MG~~T 858 P: MGT 850 ~~R~~: O~~pe~~n ~~t~~o master's ~~student~~s ~~i~~n ~~th~~e ~~El~~i Broad Colle~~g~~e ~~o~~f Business ~~an~~d T~~h~~e Eli ~~Broa~~d Grad~~uat~~e School ~~o~~f Management. R: Not open to master's students in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to MBA students in the Master of Business Administration in Business Administration or approval of department.

Process of strategic decision-making, identify issues that impede and improve decision ~~success~~, exam~~in~~e a ra~~ng~~e ~~o~~f contextual fact~~or~~s ~~tha~~t influence ~~th~~e decis~~io~~n process.

Process of strategic decision-making. Identifying issues that impede or improve decision success. Contextual factors that influence the decision process.

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

## DEPARTMENT OF MEDICINE

MED 641 Internal Medicine Clerkship in the Late Clinical Experience

Fall of every year. Spring of every year. Summer of every year. 6 credits. 6 to 9 credits. P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.

Clinical experience in which students take primary responsibility for managing the care of adult patients under the supervision of senior residents and/or attending physicians 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 2020 Effective Fall 2022

## COLLEGE OF NURSING

NUR 434 Nursing ~~Car~~e of ~~Acut~~e ~~an~~d Crit~~icall~~y ~~Il~~l Patients Complex Care of Acutely Ill Patients

Fall of every year. Spring of every year. 4(2-6) P: NUR 337 and NUR 371 and NUR 342 Nursing process ~~an~~d clinical judgment ~~t~~o ~~manag~~e a~~n~~d evalua~~t~~e ~~car~~e ~~fo~~r ac~~ut~~e and ~~criticall~~y ill pati~~ent~~s ~~a~~t ~~a~~n advanced leve~~l~~. Nursing process and clinical judgment to manage and evaluate complex care for acutely ill patients.

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

NUR 903 Healthcare Informatics

Fall of every year. 3(3-0) ~~P~~: ~~NU~~R ~~90~~2 ~~o~~r concurrently R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.

Health information systems and technologies in relationship to the delivery of efficient, high quality healthcare.

~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

NUR 904 Health Policy and Advocacy

Fall of every year. Summer of every year. 3(3-0) ~~P~~: ~~NU~~R 902 ~~o~~r concurrently R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.

Interactions between economics, ethical principles, social policies, legislative and regulatory processes that influence access, delivery and organization of healthcare. ~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

NUR 906 Leadership in Complex Health Systems

Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P~~: ~~NU~~R 902 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.

Knowledge, skills and attributes required to assume leadership as an Advanced Practice Registered Nurse in complex health systems.

~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

NUR 908 Advanced Physical Assessment for the Advanced Practice Registered Nurse

Spring of every year. 3(2-3) P: NUR 907 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.

Comprehensive assessment including history, physical and psychological assessment of signs and symptoms, pathophysiologic changes, and psychosocial variations of the patient. Specific assessment related to Nurse Anesthetist, Clinical Nurse Specialist and Nurse Practitioner practice will be a focus in the practical experience of students.

~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

NUR 909 Advanced Pharmacology for the Advanced Practice Registered Nurse

Spring of every year. Summer of every year. 3(3-0) P: NUR 907 and NUR 908 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major.

Application of pharmacotherapeutics for disease conditions including knowledge of pharmacokinetics, pharmacodynamics, pharmacogenetics, pharmacy and toxicology used to guide selection of interventions.

~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

NUR 912 Health Promotion – Family

Spring of every year. Summer of every year. 3(3-0) ~~P~~: ~~NU~~R 907 P: NUR 902 and NUR 907 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major. C: EPI 840 concurrently.

Integration of concepts, theories and principles of population health, health promotion and disease prevention at the advanced practice level across the lifespan.

~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

NUR 913 Health Promotion – Adult-Gerontology

Spring of every year. Summer of every year. 3(3-0) ~~P~~: ~~NU~~R 907 P: NUR 902 and NUR 907 R: Open to graduate students in the College of Nursing or in the Master of Science in Nursing or in the Nursing Practice Major. C: EPI 840 concurrently.

Integration of concepts, theories and principles of population health, health promotion and disease prevention at the advanced practice level for adults and older adults.

~~Effectiv~~e Fa~~l~~l 2018 Effective Spring 2022

## DEPARTMENT OF PHILOSOPHY

~~L~~B 355

PHL 355 Philosophy of Technology (W)

Spring of every year. 4(4-0) Interdepartmental ~~wit~~h Philosophy. Interdepartmental with Lyman Briggs P: (LB 133) or completion of Tier I writing requirement RB: PHL 200 R: Open to students in the Department of Philosophy or in the Lyman Briggs College or in the Science, Technology, Environment and Public Policy Specialization.

Examination of the desirability of technology, its social forms, and its alternatives. Conventional productivist, ecological progressive, and radical humanist outlooks. SA: LBS 355

~~Effectiv~~e Spring 2014 Effective Summer 2022

## DEPARTMENT OF PHYSICS AND ASTRONOMY

PHY 855 Quantum Field Theory

Spring of every year. 2(2-0) 3(3-0) RB: PHY 852 R: Open to graduate students in the Department of Physics and Astronomy or approval of department.

Introduction ~~t~~o ~~fiel~~d theo~~r~~y ~~a~~s it ~~pertain~~s ~~t~~o nu~~merou~~s problems ~~i~~n ~~particle~~, nucle~~a~~r and condensed ma~~tte~~r ~~physics~~. Second quantizat~~ion~~, applicatio~~n~~s ~~t~~o ~~differen~~t ~~field~~s based on perturb~~atio~~n th~~eory~~. ~~Offere~~d ~~firs~~t ~~hal~~f ~~o~~f ~~semester~~. Introduction to field theory, including relativistic aspects, as it pertains to numerous problems in particle, nuclear and condensed matter physics. Second quantization, renormalization, and applications to different fields based on perturbation theory.

~~Effectiv~~e Fa~~l~~l 2014 Effective Spring 2023

## DEPARTMENT OF PLANT, SOIL AND MICROBIAL SCIENCES

CSS 431 International Agricultural Systems

Spring of every year. 3(3-0) ~~P~~: ~~(AN~~R ~~25~~0 ~~o~~r I~~S~~S ~~31~~0 ~~o~~r ~~IS~~S ~~31~~5 ~~o~~r ~~IS~~S 318 ~~o~~r ~~IS~~S ~~32~~0 ~~o~~r ~~IS~~S 330A ~~o~~r ~~IS~~S ~~330~~B ~~o~~r ~~IS~~S ~~330~~C ~~o~~r ~~IS~~S ~~336~~) and completi~~o~~n ~~o~~f Ti~~e~~r I ~~writin~~g requirement P: (ANR 250 or ISS 310 or ISS 315 or ISS 318 or ISS 320 or ISS 330A or ISS 330B or ISS 330C) and completion of Tier I writing requirement R: ~~No~~t ~~ope~~n ~~t~~o freshmen. R: Not open to freshmen and not open to sophomores.

World production capacity for food, fiber and biofuel as related to soil, biology and climatic resources. Principles and case studies of sustainable systems presented from developing and developed countries. Emerging issues in agricultural globalization and biodiversity.

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