

**MICHIGAN STATE UNIVERSITY**

**Report of  
THE UNIVERSITY COMMITTEE ON CURRICULUM  
to the Faculty Senate  
April 20, 2021**

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

MICHIGAN STATE UNIVERSITY  
University Committee on Curriculum

April 20, 2021

TO: Faculty Senate

This report is prepared and distributed for the following purposes:

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

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:

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

PART II - NEW COURSES:<sup>1</sup>

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

PART III - COURSE CHANGES:<sup>1</sup>

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

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

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

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

MICHIGAN STATE UNIVERSITY

April 20, 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. Change the requirements for the **Master of Science** degree in **Agricultural, Food and Resource Economics** in the Department of Agricultural, Food, and Resource Economics. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

- a. Add the following **Guidance Committee** section:

New students are assigned a temporary major professor by the Graduate Program Director, in consultation with the student and faculty member. The student is responsible for assembling a long-term major professor and guidance committee via consultation with faculty and, if desired, the Graduate Program Director. Students must have a major professor and guidance committee by the end of their second semester. The guidance committee consists of three or more Michigan State University regular faculty members. A majority of the guidance committee members must have appointments in the Department of Agricultural, Food, and Resource Economics.

Effective Fall 2021.

2. Change the requirements for the **Doctor of Philosophy** degree in **Agricultural, Food and Resource Economics** in the Department of Agricultural, Food, and Resource Economics. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

- a. Replace the **Guidance Committee** section with the following:

New students are assigned a temporary major professor by the Graduate Program Director, in consultation with the student and faculty member. The student is responsible for assembling a long-term major professor and guidance committee via consultation with faculty and, if desired, the Graduate Program Director. Students must have a major professor and guidance committee by the end of their third semester. The guidance committee consists of four or more Michigan State University regular faculty members. A majority of the guidance committee members must have appointments in the Department of Agricultural, Food, and Resource Economics.

Effective Fall 2021.

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

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

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

The University's Tier II writing requirement for the Dietetics major is met by completing Human Nutrition and Foods 472. That course is referenced in item 3. a. below.

Effective Fall 2021.

4. Change the requirements for the **Bachelor of Science** degree in **Construction Management** in the School of Planning, Design and Construction to the following. The University Committee on Undergraduate Education (UCUE) approved this request at its March 25, 2021 meeting.

- a. Under the heading **Admission as a Junior** make the following changes:

- (1) Replace the first paragraph with the following:

Construction management builds upon a basic understanding of mathematics, physics, statistics, and economics to develop the skills necessary to manage construction projects. Prior to enrollment in the major, students must have demonstrated this basic understanding by a minimum performance in the courses listed and a minimum grade point average of 3.00 in CMP courses listed in item 2. below.

- (2) Delete item 3.

- (3) Replace paragraph three with the following:

While meeting all of the criteria above is necessary to be considered for admission to the Bachelor of Science Degree in Construction Management, it does not guarantee admission. Other factors such as MSU grade-point average, construction management grade-point average, work experience, personal experience, and diversity may also be considered.

- b. Under the heading **Requirements for the Bachelor of Science Degree in Construction Management** make the following changes:

- (1) In item 1., replace paragraphs three and four with the following:

Students who are enrolled in the Construction Management major leading to the Bachelor of Science degree may complete an alternative track to Integrative Studies in Physical Sciences that consists of Physics 231.

The completion of Physics 251 satisfies one credit towards the laboratory requirement. With advisor approval, the second required laboratory credit may be satisfied if the student completes a chemistry laboratory course or a physics laboratory course beyond Physics 251.

Physics 231 and 251 may be counted toward both the alternative track and the requirements for the major referenced in item 3. below.

- (2) In item 2., delete the first sentence of paragraph two:

Certain courses referenced in requirement 3. below may be counted toward College requirements as appropriate.

- (3) In item 3. a. change the total credits from '61' to '64' and add the following course:

- |  |     |     |                                 |   |
|--|-----|-----|---------------------------------|---|
|  | MGT | 325 | Management Skills and Processes | 3 |
|--|-----|-----|---------------------------------|---|
- (4) In item 3. c. add the following courses:
- |  |     |     |                                                    |   |
|--|-----|-----|----------------------------------------------------|---|
|  | CMP | 445 | Green and Energy Efficient Building Construction   | 3 |
|  | CMP | 493 | Professional Internship in Construction Management | 3 |
- (5) In item 3. c. change the note to the following:
- Students must have a minimum grade-point of 2.0 in each of the following courses: CMP 401, 415, and 423.
- (6) In item 3. c. delete the following courses:
- |  |     |     |                                                     |   |
|--|-----|-----|-----------------------------------------------------|---|
|  | LA  | 230 | Site Construction Materials and Methods             | 3 |
|  | PDC | 431 | Special Topics in Planning, Design and Construction | 3 |
- Add the following course:
- |  |    |     |                                         |   |
|--|----|-----|-----------------------------------------|---|
|  | LA | 230 | Site Construction Materials and Methods | 4 |
|--|----|-----|-----------------------------------------|---|
- (7) In item 3. d., change the requirement to 'One of the following courses with a minimum grade-point of 2.0'.
- (8) Delete item 3. i.

Effective Fall 2021.

### 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 March 15, 2021 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.*

- a. Under the heading **Requirements for the Bachelor of Arts Degree in English** replace item 3. with the following:
- a. The following courses (34 to 40 credits):
- |     |                                                                              |     |                                                                        |   |
|-----|------------------------------------------------------------------------------|-----|------------------------------------------------------------------------|---|
| (1) | Both of the following courses (6 credits):                                   |     |                                                                        |   |
|     | ENG                                                                          | 210 | Introduction to Literary Studies                                       | 3 |
|     | ENG                                                                          | 280 | Introduction to Literary Theories                                      | 3 |
| (2) | One of the following Tier II writing courses in English (3 or 4 credits):    |     |                                                                        |   |
|     | ENG                                                                          | 360 | Studies in Postcolonial and Diaspora Literature (W)                    | 3 |
|     | ENG                                                                          | 362 | Studies in Modern/Contemporary Literature (W)                          | 3 |
|     | ENG                                                                          | 364 | Studies in 18 <sup>th</sup> -/19 <sup>th</sup> -Century Literature (W) | 3 |
|     | ENG                                                                          | 368 | Studies in Medieval/Early Modern Literature (W)                        | 3 |
|     | ENG                                                                          | 413 | Critical Questions in language and Composition (W)                     | 4 |
|     | ENG                                                                          | 499 | Senior Thesis Research (W)                                             | 3 |
| (3) | One of the following courses on diversity in literature or Film (3 credits): |     |                                                                        |   |
|     | ENG                                                                          | 350 | Readings in African, African American, or African Diaspora Literature  | 3 |
|     | ENG                                                                          | 351 | Readings in Chicano and Latino Literatures                             | 3 |

	ENG	352	Readings in Asian/Asian American/Asian Diaspora Literature and Visual Culture	3
	ENG	353	Readings in Women Writers	3
	ENG	354	Readings in Native American Literature	3
	ENG	355	Readings in Sexuality and Literature	3
	ENG	356	Readings in Jewish Literature	3
	ENG	360	Studies in Postcolonial and Diaspora Literature (W)	3
	ENG	448	Seminar in Gender and Literature	3
	ENG	449	Seminar in Race, Ethnicity, and Literature	3
	ENG	450	Seminar in African American Literature	3
	ENG	460	Seminar in Global and Postcolonial Literature	3
	ENG	466	Seminar in Literatures of the Pacific Rim	3
	ENG	482	Seminar in Feminist Literary and Cultural Theory	3
	FLM	450	Studies in Ethnic Film	3
	FLM	451	Studies in Postcolonial Cinema	3
	FLM	452	Studies in Film, Gender, and Sexuality	3
	If English 360, 450 or 460 is used to fulfill this requirement it may not be used to fulfill requirement 3. a. (2).			
(4)	One of the following courses in literature before 1800 (3 credits):			
	ENG	318	Readings in Shakespeare	3
	ENG	368	Studies in Medieval/Early Modern Literature (W)	3
	ENG	324	Readings in Epic	3
	ENG	441	Seminar in Early American Literature	3
	ENG	454	Seminar in Medieval Literature and Culture	3
	ENG	455	Seminar in Early Modern Literature	3
	ENG	457	Seminar in 18 <sup>th</sup> Century British Literature	3
	If English 368 is used to fulfill this requirement it may not be used to fulfill requirement 3. a. (2).			
(5)	One of the following seminars in literature (3 credits):			
	ENG	422	Seminar in Genre and Form	3
	ENG	426	Seminar in Drama or Performance Studies	3
	ENG	440	Seminar in Popular Culture Studies	3
	ENG	441	Seminar in Early American Literature	3
	ENG	443	Seminar in 19 <sup>th</sup> -Century American Literature	3
	ENG	445	Seminar in 20 <sup>th</sup> and 21 <sup>st</sup> Century American Literature	3
	ENG	448	Seminar in Gender and Literature	3
	ENG	449	Seminar in Race, Ethnicity, and Literature	3
	ENG	450	Seminar in African American Literature	3
	ENG	452	Seminar in 20 <sup>th</sup> and 21 <sup>st</sup> Century British Literature	3
	ENG	454	Seminar in Medieval Literature and Culture	3
	ENG	455	Seminar in Early Modern Literature	3
	ENG	457	Seminar in 18 <sup>th</sup> -Century British Literature	3
	ENG	458	Seminar in 19 <sup>th</sup> -Century British Literature	3
	ENG	460	Seminar in Global and Postcolonial Literature	3
	ENG	462	Seminar I Transatlantic Literature	3
	ENG	466	Seminar in Literatures of the Pacific Rim	3
	ENG	473A	Literature and Medicine	3
	ENG	473B	Law and Literature	3
	ENG	475	History of the Book: From Manuscripts to Comics	3
	ENG	478A	Literature, Technology, and Representation	3
	ENG	478B	Literature and Visual Culture	3
	ENG	480	History of Western Literary Criticism	3
	ENG	481	Seminar in Critical and Cultural Theory	3
	ENG	482	Seminar in Feminist Literary and Cultural Theory	3

- (6) One of the following capstone course requirements (4 credits):
- |     |      |                                                   |   |
|-----|------|---------------------------------------------------|---|
| ENG | 484B | Critical Questions in Region, School,<br>Movement | 4 |
| ENG | 484C | Critical Questions in a Literary Period           | 4 |
| ENG | 484D | Critical Questions in a National Literature       | 4 |
| ENG | 493  | English Internship                                | 4 |
| ENG | 499  | Senior Thesis Research (W)                        | 4 |
- With the prior approval of the Department of English, English 400 in conjunction with any one course from English 422, 426, 440, 441, 443, 445, 448, 449, 450, 452, 454, 455, 457, 458, 460, 462, 466, 473A, 473B, 478A, 478B, 480, 481, 482, or Philosophy 474 may be used to satisfy this requirement.
- (7) English electives: Additional credits in English courses as needed to meet the requirement of at least 34, but not more than 40, credits in courses in the major, including no more than 4 credits in a 100-level English course.

Effective Fall 2022.

2. Change the requirements for the **Bachelor of Arts** degree in **French** in the Department of Romance and Classical Studies. The Teacher Education Council (TEC) approved this request at its March 15, 2021 meeting.
- a. Under the heading **Requirements for the Bachelor of Arts Degree in French** replace the entire entry with the following:
- a. The following French courses (15 credits):
- |     |     |                                                           |   |
|-----|-----|-----------------------------------------------------------|---|
| FRN | 310 | Stepping into the 20 <sup>th</sup> Century and Beyond     | 3 |
| FRN | 320 | Exploring Diversity and Minorities in the<br>Francosphere | 3 |
| FRN | 330 | Progressing in French Pronunciation                       | 3 |
| FRN | 340 | Connecting with the Literatures of the<br>Francosphere    | 3 |
| FRN | 350 | Connecting with the Cultures of the<br>Francosphere       | 3 |
- Note:** FRN 391 Special Topics in Study Abroad may substitute for one of the 300-level required courses.
- b. Complete an additional 15 credits from the following in French courses at the 400-level to meet the requirement of 30 credits in courses in the major:
- |     |     |                                                                |   |
|-----|-----|----------------------------------------------------------------|---|
| FRN | 420 | French for Professional Uses                                   | 3 |
| FRN | 430 | Perspectives in the French Language                            | 3 |
| FRN | 440 | Perspectives in Literature and the Arts of the<br>Francosphere | 3 |
| FRN | 450 | Perspectives in the Cultures of the Francosphere               | 3 |
| FRN | 491 | Special Topics in Study Abroad                                 | 3 |
- A maximum of 9 credits may be earned in each of the 400-level courses above to enable students to focus on a concentration.

Effective Fall 2022.

3. Change the requirements for the **Minor in French** in the Department of Romance and Classical Studies.

a. Under the heading **Requirements for the Minor in French** replace the entire entry with the following:

1. All of the following courses (15 credits):

FRN	310	Stepping into the 20 <sup>th</sup> Century and Beyond	3
FRN	320	Exploring Diversity and Minorities in the Francosphere	3
FRN	330	Progressing in French Pronunciation	3
FRN	340	Connecting with the Literatures of the Francosphere	3
FRN	350	Connecting with the Cultures of the Francosphere	3

**Note:** FRN 391 Special Topics in Study Abroad may substitute for one of the 300-level required courses.
2. Complete an additional 6 credits from the following in French courses at the 400-level, as approved by the student's academic advisor:

FRN	420	French for Professional Uses	3
FRN	430	Perspectives in the French Language	3
FRN	440	Perspectives in Literature and the Arts of the Francosphere	3
FRN	450	Perspectives in the Cultures of the Francosphere	3
FRN	491	Special Topics in Study Abroad	3

Effective Fall 2022.

4. Change the requirements for the **Bachelor of Fine Arts** degree in **Theatre** in the Department of Theatre.

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

- (1) Change the name of the **Acting** concentration to **Acting for Stage, Screen, and New Media**.
- (2) In the **Design** concentration, under item (3) delete the following course:

THR	337	Motion Graphics for Performance Design	3
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Effective Fall 2021.

5. Change the requirements for the **Minor in Women's and Gender Studies** in the Program in Women, Gender and Social Justice.

a. Under the heading **Requirements for the Minor in Women's and Gender Studies** make the following changes:

- (1) In item 2. under *Gender, Race, Ethnicity, and History* add the following courses:

WS	102	Navigating Sex and Gender in Everyday Life	2
WS	307	Women of Color Feminisms	3
- (2) In item 2. under *Sexuality and Conflict/Violence* add the following course:

WS	351	Gendered Violence and Intersections of Power	3
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- (3) In item 2. under *Gender and the Arts and Humanities* add the following courses:

WS	102	Navigating Sex and Gender in Everyday Life	2
WS	307	Women of Color Feminisms	3



- (4) In item 2. under *Gender Applied: Health, Urban, and Public Policy* delete the following course:

ISS	325	World Urban Systems (I)	4
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Add the following courses:

LB	336	Gender, Sexuality, Science, and Technology (W)	4
PLS	304	Minority Politics	3

- (5) In the optional track for students in the College of Social Science make the following changes:

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

HST	421	Women and Gender in Africa	3
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Effective Fall 2021.

### **ELI BROAD COLLEGE OF BUSINESS**

1. Change the **Admission to the College** requirements in The Eli Broad College of Business. The University Committee on Undergraduate Education (UCUE) approved this request at its February 4, 2021 meeting.

- a. Delete the section title ***Freshmen***.

- b. Insert the following section:

#### ***Direct Admission for First-Year Students***

Direct admission to the Broad College of Business is only offered to first-year students who are entering MSU in the fall semester. Students who matriculate in the spring semester and transfer students are not eligible for direct admission.

High school seniors are offered the opportunity to enter the Broad College of Business as first-year students or as a first-year student accepted into the Broad College. To be considered for Direct Admission, applicants must:

1. Be admitted to Michigan State University as a first-year student matriculating in the fall semester.
2. List one of the following business majors (accounting, finance, management, human resource management, marketing, supply chain management) as the intended major when applying to MSU.
3. Complete and submit the Broad Direct Admission supplemental application.

To be considered for acceptance into the Broad College, applicants must:

1. Be admitted to Michigan State University as a first-year student matriculating in the fall semester.
2. Select one of the following business majors (accounting, finance, management, hospitality business, human resource management, marketing, supply chain management) as the intended major when applying to MSU.
3. Complete and submit the Broad Direct Admission supplemental application.

To maintain admission to the Broad College, a direct admit student must meet the following requirements no later than the end of a student's 3rd semester at MSU:

1. Achieve a 3.0 minimum cumulative grade-point average.

2. Achieve a 3.0 minimum grade-point average in specific Broad College pre-core courses. Pre-core requirements are Tier 1 Writing (WRA 101 or equivalent), EC 201 and/or EC 202, STT 200 or approved substitution.
  3. Earn credit in CSE 102.
  4. Students directly admitted to the college must also earn the RBC Leadership Certificate.
- c. Under the heading **Admission to the College** make the following changes:
- (1) Replace paragraphs two and three with the following:  
  
Current MSU students and transfer students must apply for Broad College admission by April 1 for a fall semester admission. When needed, an off-cycle admission process can be added.  
  
Admission is a holistic process that is based primarily on the cumulative grade-point average and grades in the pre-core courses listed below. Non-academic factors and experiences will also be considered.
  - (2) Change the introduction sentence of item 3. to the following:  
  
Completion of the following precore courses which will be used to calculate a student's pre-core grade-point average:

Effective Fall 2022.

2. 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 4, 2021 meeting.
  - a. Under the heading **Graduation Requirements for the Bachelor of Arts Degree** make the following changes:
    - (1) In item 2. b., make the following changes:
      - (a) Change the total credits from '30' to '31'.
      - (b) Add the following course:

BUS	100	Business Major and Career Exploration	1
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Effective Fall 2022.

3. Establish a **Minor 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 February 4, 2021 meeting.
  - a. **Background Information:**

Companies and individuals in the financial planning and wealth management industry have approached the Department of Finance in recent years. They have pointed out that 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. Such a pronounced demand for qualified individuals in this industry suggests an opportunity to respond to it by creating a quality program that would increase the number of our graduates with academic training in the substantive issues of direct relevance to the 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. Its integral part is building lasting and meaningful relationships to help diverse groups of individuals meet their financial goals.

The title “financial advisor” is a broad description of many other types of careers 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. 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. Also, in an effort to develop the financial services market, the Department has entered into a partnership with the Certified Financial Planner Board of Standards Inc. (CFP Board), the entity overseeing its Certified Financial Planner (CFP) designation.

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 the 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 the CFP Board.

The CFP Board currently oversees 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 the CFP® certification.

b. **Academic Programs Catalog Text:**

The Minor in Financial Planning and Wealth Management, which is administered by the Department of Finance, 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 a thorough appreciation of individual client differences and diversity. The program should be of interest to students whose undergraduate major is not in business or finance.

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 requirements for the minor may also be used to satisfy the requirements for the bachelor’s degree. At least 9 credits counted towards the requirements for this minor must be unique. Unique credits must not be used to fulfill another university, college, or major requirement in the student’s program.

Students who plan to complete the requirements of the minor should consult an academic advisor in the Undergraduate Academic Services unit in the Eli Broad College of Business. Finance majors pursuing the minor should consult with their academic advisor to ensure that both their major and minor requirements are satisfied.

**Admission**

To be considered for admission to the Minor, a student must have completed one course from item a. and one course from item b. with a grade of at least 3.0 in each course:

a.	STT	200	Statistical Methods	3
	STT	201	Statistical Methods	4
	STT	231	Statistics for Scientists	3
	STT	315	Introduction to Probability and Statistics for Business	3
	STT	351	Probability and Statistics for Engineering	3
	STT	421	Statistics I	3
	STT	441	Probability and Statistics I: Probability	3
b.	FI	311	Financial Management	3
	FI	320	Introduction to Finance	3

Students must provide a completed online application, including a statement of purpose and a resume. This online application must be received by the Department of Finance by March 15 for the fall or summer semester admission, and by October 1 for the spring semester admission. By applying to the Minor, a student would agree to allow the selection committee to review the student's grades.

Admission to the Minor is competitive and, therefore, not guaranteed. Meeting the minimum standards listed above does not guarantee admission. The applicant's overall record is considered, including the student's statement of objectives, and extra-curricular activities. Admission is subject to space availability.

#### **Requirements for the Minor in Financial Planning and Wealth Management**

			CREDITS
Complete 15 credits from all of the following:			
FI	312	Introduction to Investments	3
FI	370	Introduction to Financial Planning and Wealth Management	3
FI	380	Principles of Insurance and Risk Management	3
FI	460	Estate and Income Tax Planning	3
FI	470	Advanced Financial Planning and Wealth Management	3

#### **Academic Standards**

Students enrolled in the minor 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 cumulative grade-point average will be placed on probation. Such a student will be given the next semester of enrollment to achieve a 3.0 cumulative grade-point average; otherwise, the student will be dismissed from the minor.

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

Effective Fall 2021.

4. Change the requirements for the **Master of Science** degree in **Marketing Research** in the Department of Marketing. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

- a. Under the heading **Requirements for the Master of Science Degree in Marketing Research** make the following changes:

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

MKT	829	Marketing Technology and Analytics	3
MKT	861	Marketing Research Strategy and Analysis	2
MKT	871	New Product and Service Research	3

Add the following courses:

MKT	861	Marketing Research Strategy and Analysis	5
MKT	877	Emerging Research Design and Methods	3

Effective Fall 2021.

**COLLEGE OF EDUCATION**

1. Change the name of the **Master of Science** degree in **Sport Coaching and Leadership** in the Department of Kinesiology to **Sport Coaching, Leadership, and Administration**. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

Students admitted to the graduate certificate prior to Fall 2022 will be awarded a Master of Science Degree in Sport Coaching and Leadership.

Students admitted to the graduate certificate Fall 2022 and forward will be awarded a Master of Science Degree in Sport Coaching, Leadership, and Administration.

Effective Fall 2022.

2. Change the requirements for the **Master of Science** degree in **Sport Coaching, Leadership, and Administration** in the Department of Kinesiology. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

*The concentrations in the Master of Science degree in Sport Coaching, Leadership, and Administration are noted on the student's academic record when the requirements for the degree have been completed.*

- a. Under the heading **Admission** make the following changes:

Replace items 3. and 4. with the following:

3. submit three letters of recommendation, with at least one from a professional source (colleague, supervisor) and one from an academic source (instructor, advisor).
4. submit an academic statement of 750 words that clearly describes the applicant's reasons for pursuing the master's degree and the goals that the degree will help them attain.

- b. Under the heading **Master of Science Degree in Sport Coaching, Leadership, and Administration** replace the entire entry with the following:

The program is available only under Plan B (without thesis) and only available online. The student must complete 30 credits distributed as follows:

	CREDITS
1. All of the following courses (6 credits):	
KIN 852 Ethics in Sport Coaching, Leadership, and Administration	1
KIN 872 The Science of Sport Coaching, Leadership, and Administration	3
KIN 896 Integrative Capstone in Sport Coaching, Leadership, and Administration	2
2. Complete one of the following courses (3 credits):	
KIN 880 Sport and Leadership Practicum	3
KIN 893 Internship in Kinesiology	3
3. Complete 21 credits from one of the following concentrations:	
<b>Coaching</b>	
a. Two of the following Physical Cognate courses (6 credits):	
KIN 829 Safety and Injury Control	3
KIN 856 Physical Bases of Coaching Athletes	3
KIN 865 Stages of Athlete Development	3
KIN 868 Skill Development in Athletes	3
b. Two of the following Psychosocial Cognate courses (6 credits):	
KIN 846 Sociocultural Issues for Sport Practitioners	3
KIN 849 Theory and Practice of Modern Sport Leadership	3
KIN 855 Psychosocial Bases of Coaching Athletes	3
KIN 857 Promoting Positive Youth Development Through Sport	3
c. One of the following Administration Cognate courses (3 credits):	
KIN 851 The Sport Enterprise	3
KIN 853 Athletic Administration and Governance	3
KIN 854 Legal Aspects of Sport	3

- d. Complete one additional 3 credit Physical Cognate or Psychosocial Cognate course.
- e. Complete one additional 3 credit Kinesiology course approved by the student's academic advisor.

**Sport Administration**

- a. One of the following Physical Cognate courses (3 credits):
 

KIN	829	Safety and Injury Control	3
KIN	856	Physical Bases of Coaching Athletes	3
KIN	865	Stages of Athlete Development	3
KIN	868	Skill Development in Athletes	3
  - b. The following course (3 credits):
 

KIN	849	Theory and Practice of Modern Sport Leadership	3
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  - c. One of the following Psychosocial Cognate courses (3 credits):
 

KIN	846	Sociocultural Issues for Sport Practitioners	3
KIN	855	Psychosocial Bases of Coaching Athletes	3
KIN	857	Promoting Positive Youth Development Through Sport	3
  - d. All of the following Administration Cognate courses (9 credits):
 

KIN	851	The Sport Enterprise	3
KIN	853	Athletic Administration and Governance	3
KIN	854	Legal Aspects of Sport	3
  - e. Complete one additional 3 credit Kinesiology course approved by the student's academic advisor.
4. Completion of a final examination or evaluation.

Effective Fall 2022.

- 3. Change the name of the **Graduate Certificate in Sport Coaching and Leadership** in the Department of Kinesiology to **Sport Coaching**. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

Students admitted to the graduate certificate prior to Fall 2022 will be awarded a Graduate Certificate in Sport Coaching and Leadership.

Students admitted to the graduate certificate Fall 2022 and forward will be awarded a Graduate Certificate in Sport Coaching.

Effective Fall 2022.

- 4. Change the requirements for the **Graduate Certificate in Sport Coaching** in the Department of Kinesiology. The University Committee on Graduate Studies (UCGS) approved this request at its March 15, 2021 meeting.

- a. Under the heading **Graduate Certificate in Sport Coaching and Leadership** replace the entire entry with the following:

Students must complete 10 credits from the following:

- 1. The following course (1 credit):
 

KIN	852	Ethics in Sport Coaching, Leadership, and Administration	1
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- 2. At least one of the following courses (3 to 6 credits):
 

KIN	829	Safety and Injury Control	3
KIN	856	Physical Bases of Coaching Athletes	3
KIN	865	Stages of Athlete Development	3
KIN	868	Skill Development in Athletes	3
- 3. At least one of the following courses (3 to 6 credits):
 

KIN	846	Sociocultural Issues for Sport Practitioners	3
KIN	849	Theory and Practice of Modern Sport Leadership	3
KIN	855	Psychosocial Bases of Coaching Athletes	3
KIN	857	Promoting Positive Youth Development Through Sport	3

Effective Fall 2022.

**COLLEGE OF ENGINEERING**

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

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

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

- (1) In item 3. b. change the total credits from '41' to '38'.

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

CSE	231	Introduction to Programming I	4
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- (3) Replace item 3. d. with the following:

Complete a minimum of 18 credits including at least 12 credits from the focus areas below. The 12 credits must include at least one laboratory course (ECE 402, 404, 405, 407, 410, 415, 417, 420, 430, 431, 445, 458, 476, 477) and at least one 3 or 4 credit course from two different focus areas. Additional credits to meet the 18 credit requirement may be taken from MTH 314, any 400-level engineering course or by completing an approved 3 or 4 credit experiential education experience obtained in a minimum of three out-of-classroom experiences through engineering cooperative education or independent study. Students interested in the experiential education experience must contact the department for approval. Courses at the 400-level outside of Electrical and Computer Engineering may have restrictions or require additional prerequisites not included within this degree program.

- (4) In item 3. d. **Computing and Electronics** delete the following course:

ECE	402	Applications of Analog Integrated Circuits	4
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Add the following course:

ECE	434	Autonomous Vehicles	3
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- (5) In item 3. d. **Systems** add the following course:

ECE	424	Electrical Drives	3
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- (6) Add the following **Concentrations**:

**Digital Systems and Internet of Things**

This concentration is for students interested in graduate work or employment in the world of digital hardware, software and systems within the internet of things (IoT) industry. To earn a Bachelor of Science degree in Electrical Engineering with a Digital Systems and IoT concentration, students must complete requirements 1., 2., and 3. above and the following:

										CREDITS
1.		Complete at least four courses from the following:								
	CSE	231	Introduction to Programming I							4
	ECE	411	Electronic Design Automation							4
	ECE	430	Embedded Cyber-Physical Systems							4
	ECE	431	Smart Sensors Systems							3
	ECE	442	Introduction to Communication Networks							3
	ECE	456	Introduction to Communication and							
			Network Security							3
	ECE	466	Digital Signal Processing							3

**Electromagnetics, Acoustics and Optics**

This concentration is for students interested in graduate work or employment in areas related to electromagnetics, acoustics and optics. To earn a Bachelor of Science degree in Electrical Engineering with an EM, Acoustics and Optics concentration, students must complete requirements 1., 2., and 3. above and the following:

			CREDITS
1.	Complete at least four courses from the following:		
	ECE 405	Electromagnetic Fields and Waves II	4
	ECE 407	Electromagnetic Compatibility	4
	ECE 447	Introduction to Biomedical Imaging	3
	ECE 449	Fundamentals of Acoustics	3
	ECE 476	Electro-Optics	4

**Radio Frequency and Wireless Technologies**

This concentration is for students interested in radio frequency technologies and the theories and principles of electronic communication and networking for graduate work or employment in areas related to wireless communication. To earn a Bachelor of Science degree in Electrical Engineering with an RF and Wireless concentration, students must complete requirements 1., 2., and 3. above and the following:

			CREDITS
1.	Completion at least four courses from the following:		
	ECE 404	Radio Frequency Electronic Circuits	4
	ECE 405	Electromagnetic Fields and Waves II	4
	ECE 407	Electromagnetic Compatibility	4
	ECE 442	Introduction to Communication Networks	3
	ECE 457	Communication Systems	3

**Robotics and Automation**

This concentration is for students interested in graduate work or employment in robotics or automation areas. To earn a Bachelor of Science degree in Electrical Engineering with a robotics and automation concentration, students must complete requirements 1., 2., and 3. above and the following:

1.	The following course:		
	ECE 417	Robotics	4
2.	Complete 9 credits from the following:		
	ECE 415	Computer Aided Manufacturing	3
	ECE 416	Digital Control	3
	ECE 430	Embedded Cyber-Physical Systems	4
	ECE 431	Smart Sensors Systems	3
	ECE 434	Autonomous Vehicles	3
	ECE 466	Digital Signal Processing	3

**Microelectronics**

This concentration is for students interested in graduate work in electronic materials, devices or circuits or employment in the semiconductor industry. To earn a Bachelor of Science degree in Electrical Engineering with a Microelectronics concentration, students must complete requirements 1., 2., and 3. above and the following:

			CREDITS
1.	Complete at least four courses from the following:		
	ECE 404	Radio Frequency Electronic Circuits	4
	ECE 410	VLSI Design	4
	ECE 425	Solid State Power Conversion	3
	ECE 476	Electro-Optics	4
	ECE 477	Microelectronic Fabrication	3



**Smart Devices**

This concentration is for students interested in the design and implementation of smart devices and systems for graduate work or employment in consumer electronics and wearables fields. To earn a Bachelor of Science degree in Electrical Engineering with a Smart Devices concentration, students must complete requirements 1., 2., and 3. above and the following:

			CREDITS
1.	Complete at least four courses from the following:		
	ECE 410	VLSI Design	4
	ECE 411	Electronic Design Automation	4
	ECE 416	Digital Control	3
	ECE 431	Smart Sensors Systems	3
	ECE 445	Biomedical Instrumentation	3
	ECE 477	Microelectronic Fabrication	3

Effective Fall 2021.

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

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

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

- (1) In item 3. b. change the total credits from '43' to '39'.

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

CSE 231	Introduction to Programming I	4
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- (3) In item 3. d. **Hardware** delete the following course:

ECE 402	Applications of Analog Integrated Circuits	4
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- (4) In item 3. d. **Software Systems** add the following courses:

CSE 431	Algorithm Engineering	3
CSE 480	Database Systems	3

- (5) In item 3. d. **Intelligent Systems** add the following courses:

CSE 404	Introduction to Machine Learning	3
CSE 482	Big Data Analysis	3
ECE 434	Autonomous Vehicles	3
MTH 314	Matrix Algebra with Computational Applications	3
STT 351	Probability and Statistics for Engineering	3

- (6) Add the following **Concentrations**:

**Cybersecurity**

This concentration is for students interested in the theory and practice of communication networks and security. To earn a Bachelor of Science degree in Computer Engineering with a cybersecurity concentration, students must complete requirements 1., 2., and 3. above and the following:

			CREDITS
1.	All of the following courses (9 credits):		
	ECE 442	Introduction to Communication Networks	3
	ECE 456	Introduction to Communication and Network Security	3
	ECE 457	Communication Systems	3

2.	Two of the following courses (6 credits):			
	CSE	402	Biometrics and Pattern Recognition	3
	CSE	410	Operating Systems	3
	CSE	425	Introduction to Computer Security	3
	CSE	482	Big Data Analysis	3

**Robotics and Automation**

This concentration is for students interested in graduate work or employment in robotics or automation areas. To earn a Bachelor of Science degree in Computer Engineering with a robotics and automation concentration, students must complete requirements 1., 2., and 3. above and the following:

				CREDITS
1.	The following course:			
	ECE	417	Robotics	4
2.	Complete 9 credits from the following:			
	ECE	415	Computer Aided Manufacturing	3
	ECE	416	Digital Control	3
	ECE	430	Embedded Cyber-Physical Systems	4
	ECE	431	Smart Sensors Systems	3
	ECE	434	Autonomous Vehicles	3
	ECE	466	Digital Signal Processing	3

**Smart Systems**

This concentration is for students interested in the design and implementation of smart devices and systems for graduate work or employment in consumer electronics, wearables, and internet of things (IoT) fields. To earn a Bachelor of Science degree in Computer Engineering with a smart systems concentration, students must complete requirements 1., 2., and 3. above and the following:

				CREDITS
1.	Complete at least 13 credits from the following:			
	CSE	404	Introduction to Machine Learning	3
	CSE	420	Computer Architecture	3
	CSE	440	Introduction Artificial Intelligence	3
	CSE	476	Mobile Application Development	3
	CSE	482	Big Data Analysis	3
	ECE	410	VLSI Design	4
	ECE	411	Electronic Design Automation	4
	ECE	430	Embedded Cyber-Physical Systems	4
	ECE	431	Smart Sensors Systems	3
	ECE	445	Biomedical Instrumentation	3
	ECE	466	Digital Signal Processing	3

**Software Systems**

This concentration is for students wishing to focus on software development for graduate work or employment in embedded systems, cloud services and other software intensive fields. To earn a Bachelor of Science degree in Computer Engineering with a software systems concentration, students must complete requirements 1., 2., and 3. above and the following:

				CREDITS
1.	Complete at least 13 credits from the following:			
	CSE	410	Operating Systems	3
	CSE	415	Introduction to Parallel Programming	3
	CSE	435	Software Engineering	3
	CSE	450	Translation of Programming Languages	3
	CSE	476	Mobile Application Development	3
	ECE	430	Embedded Cyber-Physical Systems	4

### LYMAN BRIGGS COLLEGE

1. Change the name of the **Biological Science-Interdepartmental** coordinate major leading to the **Bachelor of Science Degree in Lyman Briggs College to Biological Science-Secondary Education**.

Effective Fall 2021.

2. Change the name of the **Physical Science-Interdepartmental** coordinate major leading to the **Bachelor of Science Degree in Lyman Briggs College to Physical Science-Secondary Education**.

Effective Fall 2021.

### COLLEGE OF SOCIAL SCIENCE

1. Change the requirements for the **Bachelor of Science** degree in **Anthropology** Department of Anthropology.

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

- (1) In item 3., change the total credits from '30' to '33'.

- (2) Delete items 3. b. through 3. g. and replace with the following:

- b. One of the following area courses (3 credits):

ANP	410	Anthropology of Latin America	3
ANP	411	North American Indian Ethnography	3
ANP	415	China: Culture and Society	3
ANP	417	Introduction to Islam in Africa	3
ANP	419	Anthropology of the Middle East	3
ANP	432	American Indian Women	3
ANP	433	Contemporary American Indian Communities	3
ANP	437	Asian Emigrant Communities: A Global Perspective	3
ANP	452	North American Archaeology	3
ANP	455	Archaeology of Ancient Egypt	3

- c. One of the following topical/analytical courses (3 credits):

ANP	310	Archeology of Human Migrations	3
ANP	320	Social and Cultural Theory	3
ANP	321	Anthropology of Social Movements	3
ANP	325	Anthropology of the Environment and Development	3
ANP	330	Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity	3
ANP	362	Archaeology of Foragers to Farmers	3
ANP	363	Rise of Civilization	3
ANP	364	Fake Archeology: Pseudoscience and the Past	3
ANP	370	Culture, Health, and Illness	3
ANP	420	Language and Culture	3
ANP	422	Religion and Culture	3
ANP	425	Issues in Medical Anthropology	3
ANP	426	Urban Anthropology	3
ANP	436	Globalization and Justice: Issues in Political and Legal Anthropology	3
ANP	439	Human Rights: Anthropological Perspectives	3
ANP	440	Hominid Fossils	3
ANP	441	Osteology and Forensic Anthropology	4
ANP	443	Human Adaptability	3
ANP	461	Method and Theory in Historical Archaeology	3
ANP	486	Environmental Archaeology	3

- d. One of the following anthropological methods courses (3 credits):
  - ANP 412 Method and Practice in Digital Heritage 3
  - ANP 429 Ethnographic Field Methods 4
  - ANP 441 Osteology and Forensic Anthropology 4
  - ANP 463 Laboratory Methods in Archaeology 3
  - ANP 464 Field Methods in Archaeology 2 to 6
- e. Complete 12 credits of Anthropology courses, at least 9 credits of which must at the 300-level or above. ANP 101 or 200 may not be used to fulfill this requirement.

(3) Add the following item 4.:

Other Required Courses (12 credits):

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 the Bachelor of Science degree and may not concurrently satisfy a University requirement.

- a. One of the following courses (3 or 4 credits):
  - STT 200 Statistical Methods 3
  - STT 201 Statistical Methods 3
  - STT 315 Introduction to Probability and Statistics  
for Business 3
  - STT 421 Statistics I 3
  - STT 464 Statistics for Biologists 3
- b. Complete at least 9 credits from the following courses:
  - ANTR 211 Human Tissues and Cells for Medical  
Illustrators 3
  - ANTR 350 Human Gross Anatomy for Pre-Health  
Professionals 3
  - ANTR 355 Human Gross Anatomy Laboratory 1
  - ANTR 440 Human Anatomic Variation 2
  - BMB 200 Introduction to Biochemistry 4
  - BMB 400 Introduction to Bioinformatics 3
  - BMB 401 Comprehensive 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
  - CEM 141 General Chemistry 4
  - CEM 142 General and Inorganic Chemistry 3
  - CEM 143 Survey of Organic Chemistry 4
  - CEM 151 General and Descriptive Chemistry 4
  - CEM 152 Principles of Chemistry 3
  - CEM 161 Chemistry Laboratory I 1
  - CEM 162 Chemistry Laboratory 1
  - CEM 251 Organic Chemistry I 3
  - CEM 252 Organic Chemistry II 3
  - CMSE 180 Introduction to Data Science 4
  - CMSE 201 Computational Modeling and Data Analysis I 4
  - CMSE 202 Computational Modeling and Data Analysis II 4
  - ENT 404 Fundamentals of Entomology 3
  - ENT 460 Medical Entomology 3
  - ENT 461 Field Ecology of Disease Vectors 3
  - EPI 280 Applied Analytical Methods of Health  
Studies I 3
  - EPI 380 Applied Analytical Methods of Health  
Studies II 3
  - EPI 390 Disease in Society: Introduction to  
Epidemiology and Public Health 4
  - EPI 465 Bayesian Statistical Methods 3
  - EPI 490 Advanced Topics/Methods in Global Public  
Health and Epidemiology 3

FOR	419	Applications of Geographic Information Systems to Natural Resources Management	4
FW	110	Conservation and Management of Marine Resources	3
FW	471	Ichthyology	4
FW	472	Limnology	3
GEO	201	Introduction to Plant Geography	3
GEO	206	Physical Geography	3
GEO	206L	Physical Geography Laboratory	1
GEO	221	Introduction to Geographic Information	3
GEO	221L	Introduction to Geographic Information Laboratory	1
GEO	302	Climates of the World	3
GEO	306	Environmental Geomorphology	3
GEO	324	Remote Sensing of the Environment	4
GEO	325	Geographic Information Systems	3
GEO	425	Problems in Geographic Information Science (W)	3
GLG	201	The Dynamic Earth	4
GLG	202	Geology of Michigan	3
GLG	303	Oceanography	3
GLG	304	Physical and Biological History of the Earth	4
GLG	306	Environmental Geomorphology	3
GLG	321	Mineralogy and Geochemistry	4
GLG	361	Igneous and Metamorphic Geochemistry and Petrology	4
GLG	401	Global Tectonics and Earth Structure (W)	4
GLG	411	Hydrogeology	3
GLG	412	Glacial Geology and the Record of Climate Change	4
GLG	421	Environmental Geochemistry	4
GLG	431	Sedimentology and Stratigraphy	4
GLG	433	Vertebrate Paleontology	4
GLG	434	Evolutionary Paleobiology	4
GLG	446	Ecosystems Modeling, Water and Food Security	3
GLG	471	Applied Geophysics	4
IBIO	150	Integrating Biology: From DNA to Populations	3
IBIO	306	Invertebrate Biology	4
IBIO	313	Animal Behavior	3
IBIO	328	Comparative Anatomy and Biology of Vertebrates	4
IBIO	341	Fundamental Genetics	4
IBIO	353	Marine Biology (W)	4
IBIO	355	Ecology	3
IBIO	355L	Ecology Laboratory (W)	1
IBIO	357	Global Change Biology (W)	3
IBIO	360	Biology of Birds	4
IBIO	365	Biology of Mammals	4
IBIO	384	Biology of Amphibians and Reptiles (W)	4
IBIO	445	Evolution (W)	3
IBIO	446	Environmental Issues and Public Policy	3
MMG	141	Introductory Human Genetics	3
MMG	365	Medical Microbiology	3
MMG	365L	Medical Microbiology Laboratory	1
MMG	400	Introduction to Bioinformatics	3
MMG	404	Human Genetics	3
PLB	105	Plant Biology	3
PLB	106	Plant Biology Laboratory	1
PLB	203	Biology of Plants	4
PLB	400	Introduction to Bioinformatics	3

STT	224	Introduction to Probability and Statistics for Ecologists	3
STT	231	Statistics for Scientists	3
STT	301	Computational Methods for Data Science	3
STT	351	Probability and Statistics for Engineering	3
STT	422	Statistics II	3
STT	430	Introduction to Probability and Statistics	3
STT	461	Computations in Probability and Statistics	3

Effective Fall 2021.

2. Establish a **Master of Science** degree in **Cybercrime and Digital Investigation** in the School of Criminal Justice. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 8, 2021 meeting.

a. **Background Information:**

During the 2019/2020 academic year, the School of Criminal Justice submitted a certificate program request that could be taken by students in their online law enforcement and intelligence analysis and masters criminal justice degrees. The School argued that it wanted to expand that certificate into a full degree within one year, all of which would fall under the category of RBI based on the complete online format and nesting within the existing online degree platform.

Cybercrime is a form of transnational crime and is currently the top national security threat. According to the United Nations, cybercrime affects more than 431 million adult victims globally. Specific types of crime include computer hacking, digital piracy, electronic fraud and theft, and sexual victimization. Identity-related offenses are both the most common and fastest growing forms of consumer fraud on the Internet, especially through the misuse of credit card information. While teaching citizens techniques for safe online behavior and digital privacy can curb some cybercrime, the immediate need for professionals trained to address the threats posed by cybercrime through enhanced cyber security investigations is quite evident. Additionally, terrorists, extremists, and ideologically motivated actors of all stripes utilize the Internet and associated technologies to affect nations and citizens alike. Nation-states have also harnessed the power of technology to attack their rivals, whether through the theft of intellectual property via hacking to gain economic advantage or harm their power grids. Cyber security related job postings grew 114% between 2011 to 2015, according to Burning Glass Technologies. A 2012 Bureau of Labor Statistics report also projected the field to grow by 22% over the next ten years, with as many as 120,000 new jobs created in this sector. Most entry-level positions require a bachelor's degree at a minimum, and colleges are only meeting 24 percent of the entry-level demand. The certificate program has already begun as of Fall 2020, and the initial course offering is filled to capacity.

Cybercrime is a major area of focus for the School of Criminal Justice (SCJ) and peer institutions in the Big 10, with 5 of the Big 10 institutions (e.g., Illinois, Maryland, Indiana, Ohio State, and Minnesota) having associated institutes or regularly holding summits on cybercrime. The SCJ is one of two (University of Maryland) top 10 Ph.D. granting programs in criminology/criminal justice within the United States that offers courses for graduate students to specialize in cybercrime research through innovative course content and the ability to structure cognate courses across the campus. No criminal justice programs at AAU institutions offer a cybersecurity specialization. Within the Computer Science and Engineering degree programs, a few offer a specialization in e-crime, but it is largely focused on digital forensic training (e.g. University of Albany, USF). SCJ can differentiate itself through a focused certificate on cybercrime/cybersecurity with five specialized courses at the graduate (master's) degree level and launch a Master of Science degree in Cybercrime and Digital Investigation.

b. **Academic Programs Catalog Text:**

The Master of Science degree in Cybercrime and Digital Investigation prepares students for successful careers related to the investigation of or response to cybercrime in both the public sector (law enforcement, government) and private industry. Students gain an understanding of the diverse nature of cybercrime threats that affect individuals and organizations' economic and physical safety. They also will recognize the risks posed by nation-states and terrorist organizations in online spaces, whether to intellectual property, economic operations, or national security and be

capable of assessing these threats, understanding their impact to various individual and organization targets, the limits of current legal and cybersecurity policy and practice, and clearly communicate these concerns to diverse audiences.

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

### Admission

To be considered for admission to the Master of Science degree in Cybercrime and Digital Investigation students must:

1. have a bachelor's degree from a recognized educational institution, including a background of education, occupational experience appropriate to the successful pursuit of graduate study, and evidence of personal traits and characteristics considered important for scholarly performance.
2. have at least 12 credits of undergraduate course work in political science, economics, sociology, psychology, anthropology, history, social work, or any combination thereof. At least 6 of these credits must be in sociology, psychology, social work, or any combination of such courses.
3. have a cumulative undergraduate grade-point average of at least 3.20 or higher.
4. have satisfactory scores on the Graduate Record Examination General Test. The GRE exam is waived for candidates with a cumulative undergraduate grade-point average of 3.2 or higher from an accredited and recognized institution, and for applicants with a completed graduate degree.

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. Occupational experience is highly desirable before pursuing graduate study in some fields of criminal justice.

### Requirements for the Master of Science Degree in Cybercrime and Digital Investigation

At least 30 credits are required for the degree under Plan B (without thesis). The students program of study is planned and approved in consultation with their advisor. The program is available only online.

			CREDITS	
1.	All of the following courses (18 credits):			
	CJ	801	Crime Causation, prevention and Control	3
	CJ	811	Design and Analysis in Criminal Justice Research	3
	CJ	874	Cybercrime, Deviance and Virtual Society	3
	CJ	877	Cyber Terror and Cyber Warfare	3
	CJ	881	Legislative and Policy Responses to Cybercrime	3
	CJ	882	Analysis of Contemporary Cyberthreats	3
2.	Complete 12 credits from the following:			
	CJ	822	Comparative Criminal Justice	3
	CJ	823	Globalization of Crime	3
	CJ	872	Open Source Information Analysis	3
	CJ	875	Digital Forensic Investigations	3
	CJ	876	Data Systems/Infrastructure	3
	CJ	878	Economic Cybercrimes and Fraud	3
	CJ	879	Interpersonal Cybercrime	3
3.	Completion of a final oral examination or evaluation.			

3. Change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **Economics** in the Department of Economics. The Teacher Education Council (TEC) approved this request at its March 15, 2021 meeting.

a. Under the heading **Economics** make the following changes:

(1) Change the total credits from '21' to '22'.

(2) Add the following course;

TE	503	Internship in Teaching Diverse Learners in Additional Endorsement Areas	1
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Effective Fall 2021.

4. Change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **Geography** in the Department of Geography, Environment, and Spatial Sciences. The Teacher Education Council (TEC) approved this request at its March 15, 2021 meeting.

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

(Available only to students pursuing a major in comparative cultures and politics, international relations, political theory and constitutional democracy, social relations and policy, interdisciplinary studies in social science, interdisciplinary studies in social science: social science education, or history with a teacher certification option)

1. All of the following courses (11 credits):
 

GEO	204	World Regional Geography	3
GEO	206	Physical Geography	3
GEO	206L	Physical Geography Laboratory	1
GEO	221	Introduction to Geographic Information	3
TE	503	Internship in Teaching Diverse Learners in Additional Endorsement Areas	1
2. Two of the following courses (6 credits):
 

GEO	330	Geography of the United States	3
GEO	331	Geography of Canada	3
GEO	333	Geography of Michigan and the Great Lakes Region	3
3. One of the following courses (3 credits):
 

GEO	113	Introduction to Economics Geography	3
GEO	151	Introduction to Human Geography	3
4. One additional course in Geography at the 300 or 400 level
 

3 to 4
23 to 24

Students enrolled in the disciplinary teaching minor in geography must have their programs approved by the department.

Effective Fall 2021.



5. Change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **History** in the Department of History. The Teacher Education Council (TEC) approved this request at its March 15, 2021 meeting.

a. Under the heading **History** make the following changes:

(1) Change the total credits from '31' to '33'.

(2) Add the following courses:

TE	409	Crafting Teaching Practices in the Secondary Teaching Minor	1
TE	503	Internship in Teaching Diverse Learners in Additional Endorsement Areas	1

Effective Fall 2021.

6. Change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **Political Science** in the Department of Political Science. The Teacher Education Council (TEC) approved this request at its March 15, 2021 meeting.

a. Under the heading **Political Science** make the following changes:

(1) Change the total credits from '21 or 22' to '22 or 23'.

(2) In the list of required courses, add the following course:

TE	503	Internship in Teaching Diverse Learners in Additional Endorsement Areas	1
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(3) In the list of electives, delete the following courses:

PLS	323	Religion and Politics	4
PLS	331	Political Parties and Interest Groups	3

Effective Fall 2021.

7. Change the requirements for the **Disciplinary Teaching Minor** available for secondary certification in **Psychology** in the Department of Psychology. The Teacher Education Council (TEC) approved this request at its March 15, 2021 meeting.

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

PSY	101	Introductory Psychology	4
PSY	200	Cognitive Psychology	3
Or			
PSY	209	Brain and Behavior	3
PSY	235	Social Psychology	3
PSY	238	Developmental Psychology: Lifespan	3
PSY	280	Abnormal Psychology	3
PSY	295	Data Analysis in Psychological Research	3
PSY	424	Child and Family Psychopathology (W)	3
Or			
PSY	444	Developmental Psychology: Adolescence Through Youth (W)	3
TE	409	Crafting Teaching Practices in the Secondary Teaching Minor	1
TE	503	Internship in Teaching Diverse Learners in Additional Endorsement Areas	<u>1</u>
			24

Effective Fall 2021.

## **PART II - NEW COURSES**

### **DEPARTMENT OF ART, ART HISTORY, AND DESIGN**

HA 261 Modern Asian Art  
Fall of every year. 3(3-0)  
REINSTATEMENT Modernism, modern visual culture, and contemporary art across the Asian continent, including painting, sculpture, design, photography, popular arts, and new media, structured geographically and thematically, considered through a variety of historical, social, political, and cultural perspectives.  
Effective Fall 2021

### **BIOMEDICAL LABORATORY DIAGNOSTICS PROGRAM**

BLD 221 Academic Preparation for Medical Laboratory Science I  
Fall of every year. 1(1-0) P: BLD 121 R: Open to sophomores or juniors or seniors in the Biomedical Laboratory Science Major. Approval of department.  
Academic skill development including time management, self-efficacy, short and long-term goal development, academic communication and personal alignment with Medical Laboratory Science profession.  
Request the use of the Pass-No Grade (P-N) system.  
Effective Fall 2021

BLD 321 Academic Preparation for Medical Laboratory Science II  
Fall of every year. 1(1-0) P: BLD 121 RB: BLD 221 R: Open to juniors or seniors in the Biomedical Laboratory Science Major. Approval of department.  
Academic and professional skill development including strategies to succeed in medical laboratory science core curriculum, career advancement opportunities in medical laboratory professions, professional identity, and effectively communicating your skills in applications, personal statements, and professional interviews.  
Request the use of the Pass-No Grade (P-N) system.  
Effective Fall 2021

### **THE ELI BROAD COLLEGE OF BUSINESS**

BUS 100 Business Major and Career Exploration  
Fall of every year. 1(1-0) R: Open to undergraduate students in the Business - Admitted major or approval of college.  
Introduction to different types of careers in business. Interaction with industry professionals regarding how to launch and sustain a fulfilling and productive business career. Self-assessments guiding students toward a career target, major and minor selections, and a strategic degree completion plan.  
Effective Fall 2022

### **DEPARTMENT OF EDUCATIONAL ADMINISTRATION**

EAD 925 Policy and Practice in Education  
Fall of odd years. 3(3-0)  
REINSTATEMENT Multiple conceptions of the relationship between policy and practice in K-12 education.  
SA: EAD 944  
Effective Fall 2021

### **DEPARTMENT OF ENGLISH**

- ENG 483 Seminar in Literary Editing and Publishing  
Spring of every year. 3(3-0) P: ENG 210 or ENG 226 R: Open to undergraduate students in the College of Arts and Letters or in the Department of English or in the English Major. Not open to students with credit in ENG 492.  
Overview of the history of literary magazine publication in the United States, as well as a hands-on experience with literary editing. Relationship between editorial practice and creative writing and participate in the production of the Red Cedar Review, the literary magazine published by undergraduates in MSU's Department of English since 1963.  
Effective Fall 2021
- ENG 484E Creative Writing Capstone  
Fall of every year. Spring of every year. 4(4-0) 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.  
Effective Fall 2021

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

- HNF 834 Advanced Pediatric Nutrition  
Summer of every year. 3(3-0) RB: Undergraduate Medical Nutrition Therapy and Lifecycle Nutrition courses. R: Open to master's students in the Nutrition and Dietetics Major or approval of department.  
Standards of care, tools and medical nutrition therapy concepts related to the specialty area of pediatric nutrition.  
Effective Summer 2021

### **DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES**

- HDFS 449L Children with Special Needs and Their Families Laboratory  
Spring of every year. 1(0-4) P: HDFS 211 R: Open to juniors or seniors. C: HDFS 449 concurrently.  
Supervised practice in learning activities for individual children and groups.  
Effective Fall 2022

### **COLLEGE OF HUMAN MEDICINE**

- HM 644 Enhanced Clinical Experience: Women's Health  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.  
Direct clinical experience emphasizing approach to the patient, data gathering skills, physical examination, clinical reasoning, counseling skills in women presenting with complaints and concerns related to female health.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
Effective Fall 2021

- HM 645      Enhanced Clinical Experience: Inpatient Internal Medicine  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.  
Direct clinical experience emphasizing approach to the patient, data gathering skills, clinical reasoning, and functioning as a member of a hospital team.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
Effective Fall 2021
- HM 646      Enhanced Clinical Experience: Inpatient Family Medicine  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.  
Direct clinical experience emphasizing approach to the patient, data gathering skills, clinical reasoning, and functioning as a member of a hospital team.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
Effective Fall 2021
- HM 647      Enhanced Clinical Experience: Pediatrics  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: HM 556 R: Open to graduate-professional students in the College of Human Medicine.  
Direct clinical experience emphasizing approach to the patient, data gathering skills, clinical reasoning, human development, care of infants and children.  
Request the use of the Pass-No Grade (P-N) system.  
Request the use of ET-Extension to postpone grading.  
The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.  
Effective Fall 2021

### **DEPARTMENT OF KINESIOLOGY**

- KIN 846      Sociocultural Issues for Sport Practitioners  
Summer of every year. 3(3-0) R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Intersections between broader social issues and sport. Institutional structures, social interactions, and cultural norms/values of sport. Social context and the interplay between sport and social issues. Critical examination of sport and professional practice.  
Effective Fall 2022
- KIN 851      The Sport Enterprise  
Summer of every year. 3(3-0) R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Fundamental business aspects of the sport industry. Principles of marketing, communications, economics, budgeting and finance applied to sport. Principles and methods of revenue generation, management of expenditures through controlling and budgeting. Economic perspectives and theory in relation to sport entities and facilities.  
Effective Fall 2022

### **DEPARTMENT OF MARKETING**

- MKT 877 Emerging Research Design and Methods  
Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: MKT 867 R: Open to master's students in the Marketing Research major.  
New and emerging research designs and methods. Innovative approaches and techniques that are transforming the marketing research business landscape.  
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 2021

### **COLLEGE OF NATURAL SCIENCE**

- NSC 103 Success Strategies  
Fall of every year. Spring of every year. 2(2-0) R: Approval of department.
- REINSTATEMENT Development/improvement of academic success skills, including time management, goal setting, growth mindset, study strategies.  
Effective Fall 2021

### **COLLEGE OF OSTEOPATHIC MEDICINE**

- OST 589 Independent Study Project  
Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open to graduate-professional students in the College of Osteopathic Medicine.  
Individualized Independent Study Project elective with faculty oversight.  
Request the use of the Pass-No Grade (P-N) system.  
Effective Summer 2021

### **DEPARTMENT OF ROMANCE AND CLASSICAL STUDIES**

- FRN 310 Stepping into the 20th Century and Beyond  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: ((FRN 202 or FRN 204) or designated score on French Placement test ) and Completion of Tier I Writing Requirement  
Key moments in the history of France, from the French Revolution onward. Impact of historical events on the contemporary French-speaking world.  
Effective Fall 2021
- FRN 350 Connecting with the Cultures of the Francosphere (W)  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: (FRN 310 or FRN 320) and Completion of Tier I Writing Requirement  
Initiation into the cultures of the French-speaking world through the study of cultural, literary, media and multimedia materials. Exploration of the Francophone heritage of the following regions: The United States, Canada, the French Caribbean, Africa and Asia. Identification of the complex past and present links between various Francophone regions and the United States.  
Effective Fall 2021
- FRN 391 Special Topics in Study Abroad  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: (FRN 201 or FRN 202) or Designated score on French Placement test  
French language, literature, culture, or professional studies while studying abroad.  
Effective Fall 2021

- FRN 420      French for Professional Uses  
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. P: (FRN 310 or FRN 320 or FRN 330 or FRN 340 or FRN 350) and (FRN 310 or FRN 320 or FRN 330 or FRN 340 or FRN 350) and (FRN 310 or FRN 320 or FRN 330 or FRN 340 or FRN 350)  
French language skills to different professional career trajectories. Topics will vary depending on the semester including translation, French for the business world, economics, the industry of French culture or tourism. .  
Effective Fall 2021
- FRN 440      Perspectives in Literature and the Arts of the Francosphere  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: (FRN 330 or approval of department) and (FRN 310 or FRN 320 or FRN 340 or approval of department) and (FRN 310 or FRN 320 or FRN 340 or approval of department)  
Literary genres and artistic movements in the Francosphere from the Middle Ages to the 21st century. Historical, political, and societal contexts of these literary and artistic movements. Topics will vary depending on the semester.  
Effective Fall 2021
- FRN 450      Perspectives in the Cultures of the Francosphere  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: (FRN 330 or approval of department) and (FRN 310 or FRN 320 or FRN 340 or approval of department) and (FRN 310 or FRN 320 or FRN 340 or approval of department)  
In-depth exploration of societies and cultures of the French-speaking world. Analysis of the histories, cultural practices, literary and artistic productions, politics, and language of various Francophone regions. Topics will vary depending on the semester.  
Effective Fall 2021

### **PROGRAM IN WOMEN, GENDER AND SOCIAL JUSTICE**

- WS 307      Women of Color Feminisms  
Fall of every year. Spring of odd years. 3(3-0) Interdepartmental with Residential College in the Arts and Humanities. P: Completion of Tier I Writing Requirement RB: WS 202  
In-depth analysis of major topics and developments in women of color feminisms, intersectionality, critical race theories, decolonial feminisms, and transnational and transcultural feminisms.  
Effective Fall 2021

## **PART III – COURSE CHANGES**

### **DEPARTMENT OF ANTHROPOLOGY**

- ANP 364 ~~Pseudoarchaeology~~  
Fake Archaeology: Pseudoscience and the Past  
Fall of odd years. 3(3-0)  
Critical survey and discussion of pseudoarchaeological and pseudoscientific ideas about archaeology, archaeologists, and the human past.  
~~Effective Fall 2014~~ Effective Fall 2021
- ANP 850 ~~Principles of Archaeological Analysis~~  
Principles of Archaeological Research Design  
Spring of odd years. 3(3-0) ~~RB: (CEO 465) or approval of instructor. R: Open only to graduate students. R: Approval of department.~~  
Formal, spatial, and temporal dimensions of archaeological research design. Appropriate analytic techniques.  
~~Effective Fall 1995~~ Effective Fall 2022

### **BIOLOGICAL SCIENCE PROGRAM**

- BS 161 Cell and Molecular Biology  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics~~ P: (CEM 141 or concurrently) or (CEM 151 or concurrently) or (LB 171 or concurrently) or (CEM 181H or concurrently) Not open to students with credit in BS 181H or LB 145.  
Macromolecular synthesis. Energy metabolism. Molecular aspects of development.  
Molecular genetics.  
SA: BS 111, BS 149H  
~~Effective Fall 2013~~ Effective Fall 2021
- BS 162 Organismal and Population Biology  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~Interdepartmental with Integrative Biology and Plant Biology.~~ Interdepartmental with Plant Biology P: BS 161 or BS 181H or LB 145 Not open to students with credit in BS 182H or LB 144.  
Biological diversity and organismal biology. Principles of evolution, transmission genetics, population biology, community structure, ecology.  
SA: BS 110, BS 148H  
~~Effective Fall 2016~~ Effective Summer 2021
- BS 171 Cell and Molecular Biology Laboratory  
Fall of every year. Spring of every year. Summer of every year. 2(1-3) ~~Interdepartmental with Biochemistry and Molecular Biology and Microbiology and Molecular Genetics~~ P: (BS 161 or concurrently) or (BS 181H or concurrently) Not open to students with credit in BS 191H or LB 145.  
Principles and applications of common techniques used in cell and molecular biology.  
SA: BS 111L, BS 159H  
~~Effective Fall 2013~~ Effective Fall 2021
- BS 181H Honors Cell and Molecular Biology  
Spring of every year. 3(3-0) ~~Interdepartmental with Biochemistry and Molecular Biology and Lyman Briggs and Microbiology and Molecular Genetics~~ P: (CEM 141 or concurrently) or (CEM 151 or concurrently) or (CEM 181H or concurrently) or (LB 171 or concurrently) Not open to students with credit in LB 145.  
Physicochemical and molecular organization of cells as the unifying framework for genetics, evolution, and the social relevance of biology.  
SA: BS 149H, BS 111  
~~Effective Summer 2018~~ Effective Fall 2021

BS 191H Honors Cell and Molecular Biology Laboratory  
Spring of every year. 2(1-3) ~~Interdepartmental with Biochemistry and Molecular Biology and Lyman  
Briggs and Microbiology and Molecular Genetics~~ P: BS 181H or concurrently Not open to students  
with credit in LB 145.  
Basic techniques of cellular and molecular biology including experimental design and  
hypothesis formulation; biochemistry, molecular biology and genetics.  
SA: BS 159H  
~~Effective Summer 2017~~ Effective Spring 2022

### THE ELI BROAD COLLEGE OF BUSINESS

MBA 820 Marketing Management  
Fall of every year. 1 to 3 credits. R: Open to MBA students.  
Leadership principles in marketing strategy development. Fundamental marketing  
concepts such as strategic marketing analysis, market segmentation, targeting, and  
competitive positioning. Problem-solving and market planning. Application of concepts to  
case analysis.  
~~Effective Fall 2013~~ Effective Summer 2022

MBA 821 Introduction to Supply Chain Management Concepts  
Fall of every year. ~~4 to 3 credits, 3(3-0)~~ R: Open to MBA students.  
Integrative approach to understanding supply chain management. Flow of products from  
concept development through delivery to the final user, including product and process  
development, managing information, inventory and product flows, and supplier and  
customer management.  
~~Effective Fall 2013~~ Effective Summer 2022

MBA 822 Corporate Investment Decisions  
Fall of every year. 1 to 3 credits. R: Open to MBA students.  
Corporate investment decisions including calculation of present value, valuation of bonds  
and common stock, net present value and other investment criteria, portfolio theory and  
financial asset pricing models, risk and cost of capital.  
~~Effective Fall 2013~~ Effective Summer 2022

MBA 830 Marketing Strategy Execution  
Fall of every year. 1 to 3 credits. P: MBA 820 R: Open to MBA students.  
Executing marketing strategy. Using the marketing decision variables to plan and execute  
in a competitive marketplace. Fundamental marketing topics such as customer  
satisfaction, customer loyalty and lifetime value, growth strategies, brand value  
propositions, new product strategies, brand equity development, marketing  
communication, pricing, channel relationships, internet marketing, and global marketing.  
Application of course concepts to case analysis.  
DELETE COURSE  
Effective Fall 2021

MBA 831 Supply Chain Management Applications  
Fall of every year. 1 to 3 credits. P: MBA 821 R: Open to MBA students.  
Application of supply chain management concepts. Examining how procurement, logistics  
and operations management enable value propositions and gain competitive advantage.  
DELETE COURSE  
Effective Fall 2021

MBA 832 Corporate Financing Decisions  
Fall of every year. 1 to 3 credits. P: MBA 822 R: Open to MBA students.  
Corporate financing decisions including efficient markets and behavioral finance, how  
corporations issue securities, capital structure, shareholder payout policy and agency cost  
issues.  
DELETE COURSE  
Effective Fall 2021



- MBA 846 Executive Lecture Series  
Fall of every year. ~~4(4-0)~~ 1 to 2 credits. A student may earn a maximum of 2 credits in all enrollments for this course. R: Open to MBA students in the The Eli Broad College of Business and open to undergraduate students in the Honors College.  
CEO perspectives on interdisciplinary business topics. Real-world events and scenarios, global business community, and innovative strategies to manage high-performance organizations.  
~~Effective Spring 2017~~ Effective Summer 2022

### **DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE**

- MSE 801 Foundations of Materials Science and Engineering  
Summer of every year. 3(3-0) RB: Undergraduate degree in science or engineering related to Materials Science.  
Structure-Property-Processing-Performance interrelationship of metals, ceramics and polymers. Phase diagrams, thermomechanical treatments, physical and mechanical properties, processing, diffusion, microstructure studies, environmental effects.  
~~Request the use of the Pass No Grade (P-N) system.~~  
~~Effective Summer 2016~~ Effective Summer 2021

### **SCHOOL OF CRIMINAL JUSTICE**

- CJ 871 Advanced Crime Analysis  
Spring of every year. 3(3-0) P: CJ 870 or approval of school  
Advanced application of intelligence and crime analysis skills and techniques.  
~~Effective Fall 2019~~ Effective Fall 2021

### **DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES**

- GLG 435 Geomicrobiology  
~~Spring of every year.~~ Spring of odd years. 4(3-2) Interdepartmental with Microbiology and Molecular Genetics. RB: GLG 201 or MMG 201 or BS 161 or LB 145 R: Open to juniors or seniors or graduate students in the College of Natural Science or in the Lyman Briggs College.  
Geological and microbiological perspectives on microbial activities in diverse environmental settings, including geological change mediated by microorganisms, microbial evolution driven by geologically diverse habitats.  
~~Effective Fall 2019~~ Effective Spring 2021

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

- ECE 201 Circuits and Systems I  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: ~~((CSE 131 or concurrently) or (CSE 231 or concurrently) or (EGR 102 or concurrently) or (CSE 220 or concurrently)) and ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently))~~ P: ((CSE 231 or concurrently) or (EGR 102 or concurrently) or (CSE 220 or concurrently)) and ((MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently))  
Resistive circuits. Loop and modal analysis. Network theorems, dependent sources. Capacitor and inductor circuits. Transient analysis. Introduction to computer-aided design.  
SA: ECE 200  
~~Effective Fall 2013~~ Effective Fall 2021

### DEPARTMENT OF ENGLISH

- ENG 200 Creative Writing Community  
Fall of every year. Spring of every year. 1(1-0) ~~R: Open to undergraduate students in the Department of English or in the English Major and open to undergraduate students in the Creative Writing Minor.~~  
Experiential learning course, for students to attend literary events on campus and as outreach within the local community.  
Request the use of the Pass-No Grade (P-N) system.  
~~Effective Fall 2016~~ Effective Fall 2021
- ENG 210 ~~Foundations of Literary Study I~~  
Introduction to Literary Studies  
Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement ~~R: Open to students in the Department of English or in the English Secondary Teaching Major or in English Elementary Teaching Major or in English Disciplinary Teaching Minor and open to students in the Language Arts Elementary Teaching Major.~~  
Writing-intensive course in close reading, with substantial attention to poetry, drama, and narrative prose, drawing broadly on texts taken from more than one century and more than one national literature.  
~~Effective Spring 2014~~ Effective Fall 2022
- ENG 211H ~~Honors Foundation in Literary Studies~~  
Honors Introduction to Literary Studies  
Fall of every year. Spring of every year. 3(3-0) R: Open to students in the Honors College or approval of department.  
Literary form and close reading. Substantial attention to poetry, drama, and narrative prose, drawing broadly on texts taken from more than one century and more than one national literature.  
~~Effective Spring 2014~~ Effective Fall 2022
- ENG 280 ~~Foundations of Literary Study II~~  
Introduction to Literary Theories  
Fall of every year. Spring of every year. 3(3-0) P: ENG 210 R: Open to undergraduate students in the Department of 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 Spring 2014~~ Effective Fall 2022
- ENG 320A Methodologies of Literary History: Genre  
~~Fall of every year. Spring of every year. On Demand. 4(4-0) 3(3-0) P: ENG 210 and (ENG 280 or concurrently) P: ENG 210 and ENG 280 R: Open to undergraduate students in the Department of English or in the English Elementary Teaching Major or in the English Disciplinary Teaching Minor or in the Language Arts Elementary Teaching Major or in Language Arts Disciplinary Teaching Minor. R: Open to undergraduate students in the English 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.  
~~Effective Spring 2014~~ Effective Fall 2022
- ENG 320B Methodologies of Literary History: Region, School, or Movement  
~~Fall of every year. Spring of every year. On Demand. 4(4-0) 3(3-0) P: ENG 210 and (ENG 280 or concurrently) P: ENG 210 and ENG 280 R: Open to students in the Department of English or in the English Elementary Teaching Major or in the English Disciplinary Teaching Minor or in the Language Arts Elementary Teaching Major or in Language Arts Disciplinary Teaching Minor. R: Open to students in the Department of English or in the English Major or in the English Disciplinary Teaching Minor or in Language Arts Elementary 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 Spring 2014~~ Effective Fall 2022

- ENG 320C Methodologies of Literary History: Canon Formation  
~~Fall of every year. Spring of every year. On Demand. 4(4-0) 3(3-0) P: ENG 210 and (ENG 280 or concurrently) P: ENG 210 and ENG 280 R: Open to undergraduate students in the Department of English or in the English Elementary Teaching Major or in English Disciplinary Teaching Minor. R: Open to undergraduate students in the Department of English or in the English Disciplinary Teaching 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 Spring 2014~~ Effective Fall 2022
- ENG 320D Methodologies of Literary History: History and Theory of Creative Writing  
Fall of every year. ~~4(4-0)~~ 3(3-0) P: (ENG 210 or ENG 211H) and (ENG 223 or ENG 226 or ENG 228 or ENG 229 or ENG 227) ~~R: Open to students in the English Major. R: Open to undergraduate students in the English Major and open to undergraduate students in the Creative Writing Minor.~~  
Reflection on the theories and practices of literary history, as seen through the specific lens of creative writing.  
~~Effective Fall 2016~~ Effective Fall 2022
- ENG 352 Readings in Asian/Asian American/Asian Diaspora Literature and Visual Culture  
Spring of every year. 3(3-0) Interdepartmental with Asian Languages. A student may earn a maximum of 6 credits in all enrollments for this course. P: Completion of Tier I Writing Requirement RB: 3 credits of literature. R: Not open to freshmen.  
Extensive reading of texts by Americans of Asian descent or by Asians in English or English translation. Attention to artistic, historical, and cultural contexts.  
SA: ENG 361  
~~Effective Summer 2018~~ Effective Fall 2022
- ENG 360 Studies in Postcolonial and Diaspora Literature (W)  
~~Fall of every year. Spring of every year. On Demand. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: (ENG 280) and ((ENG 320A or concurrently) or (ENG 320B or concurrently) or (ENG 320C or concurrently)) and Completion of Tier I Writing Requirement P: (ENG 280) and completion of Tier I writing requirement RB: 3 credits of literature. RB: 3 credits from any literature course, either at the 200 or 300 level. R: Open to students in the Department of English or in the English Disciplinary Teaching Minor.~~  
Extensive reading and research in literatures of colonialism, decolonization, neocolonialism, cultural and political independence. Texts from Asia, Africa, the Caribbean, Latin America and/or various diaspora communities.  
~~Effective Spring 2015~~ Effective Fall 2022
- ENG 362 Studies in Modern/Contemporary Literature (W)  
~~Fall of every year. Spring of every year. On Demand. 3(3-0) P: (ENG 280) and ((ENG 320A or concurrently) or (ENG 320B or concurrently) or (ENG 320C or concurrently)) and Completion of Tier I Writing Requirement P: (ENG 280) and completion of Tier I writing requirement R: Open to students in the Department of English or in the English Disciplinary Teaching Minor.~~  
Extensive readings and research in modernist, postmodernist, and recent literary texts from multiple genres and national traditions.  
SA: ENG 310D  
~~Effective Spring 2015~~ Effective Fall 2022
- ENG 364 Studies in 18th-/19th-Century Literature (W)  
~~Fall of every year. Spring of every year. On Demand. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: (ENG 280) and ((ENG 320A or concurrently) or (ENG 320B or concurrently) or (ENG 320C or concurrently)) and Completion of Tier I Writing Requirement P: (ENG 280) and completion of Tier I writing requirement R: Open to students in the Department of English or in the English Disciplinary Teaching Minor.~~  
Extensive reading and research in literary texts in English in multiple genres. Focused on one or more periods from 1660 through 1914.  
SA: ENG 310B, ENG 310C  
~~Effective Spring 2015~~ Effective Fall 2022

- ENG 368 Studies in Medieval/Early Modern Literature (W)  
~~Fall of every year. Spring of every year. On Demand.~~ 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. ~~P: (ENG 280) and ((ENG 320A or concurrently) or (ENG 320B or concurrently) or (ENG 320C or concurrently)) and Completion of Tier I Writing Requirement~~ P: (ENG 280) and completion of Tier I writing requirement R: Open to students in the Department of English or in the English Disciplinary Teaching Minor.  
Extensive reading and research in literary texts in English in multiple genres. Focused on one or more periods from ca. 650 to 1660.  
SA: ENG 310A  
~~Effective Spring 2015~~ Effective Fall 2022
- ENG 423 Advanced Creative Non-Fiction Writing  
Fall of every year. 3(3-1) ~~P: (ENG 223 or ENG 226) and (ENG 227 or ENG 228 or ENG 229 or FLM 334)~~ P: ENG 223 R: Open to undergraduate students in the Department of English or in the English Major and open to undergraduate students in the Creative Writing Minor.  
Directed practice in creative non-fiction writing at the advanced level, including analysis of texts and writing exercises.  
~~Effective Fall 2018~~ Effective Fall 2022
- ENG 428 Advanced Fiction Writing  
Fall of every year. 3(3-1) ~~P: (ENG 228 or ENG 226) and (ENG 223 or ENG 227 or ENG 229 or FLM 334)~~ P: ENG 228 R: Open to undergraduate students in the English Major and open to undergraduate students in the Creative Writing Minor.  
Advanced workshop in writing short stories and longer forms of fiction. Reading and analysis of published fiction.  
~~Effective Fall 2018~~ Effective Fall 2022
- ENG 429 Advanced Poetry Writing  
Spring of every year. 3(3-1) ~~P: (ENG 229 or ENG 226) and (ENG 223 or ENG 227 or ENG 228 or FLM 334)~~ P: ENG 229 R: Open to undergraduate students in the English Major and open to undergraduate students in the Creative Writing Minor.  
Advanced workshop in writing original poems, reading contemporary poetry; issues of craft and poetics.  
~~Effective Fall 2018~~ Effective Fall 2022

### DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION

- HNF 472 ~~Medical Nutrition Therapy II~~  
~~Medical Nutrition Therapy II (W)~~  
Spring of every year. 4(3-2) ~~P: HNF 474~~ P: (HNF 471) and completion of Tier I writing requirement  
R: Open to juniors or seniors in the Dietetics Major.  
Anatomical, physiological and biochemical changes associated with hematologic, musculoskeletal, renal, respiratory, hepatobiliary, cancer, HIV/AIDS, metabolic stress and multiple organ failure. Nutrition assessment, nutrition diagnoses, interventions, monitoring and evaluation, documentation and quality improvement as guided by Academy of Nutrition and Dietetics' Nutrition Care Process. Interactions of diet therapies with other therapies including pharmacologic and complementary and alternative medicine.  
SA: HNF 470  
~~Effective Summer 2016~~ Effective Fall 2021

### DEPARTMENT OF KINESIOLOGY

- KIN 445 Sport and Physical Activity in Society (W)  
Fall of every year. Spring of every year. 3(3-0) P: (KIN 173) and completion of Tier I writing requirement ~~R: Open to undergraduate students in the Athletic Training Major or in the Kinesiology major and open to graduate students in the Department of Kinesiology.~~ R: Open to juniors or seniors in the Kinesiology major and open to graduate students in the Department of Kinesiology.  
Sociocultural context of and social practices in sport and physical activity.  
SA: PES 445  
~~Effective Summer 2017~~ Effective Summer 2021

- KIN 829      Safety and Injury Control  
Summer of every year. 3(3-0) ~~R: Open to graduate students in the Education Major or in the Sport Coaching and Leadership Major or in the Sport Coaching and Leadership Graduate Certificate.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Health and safety of participants. Prevention, care, and management of injuries.  
~~Effective Spring 2017~~ Effective Fall 2022
- KIN 849      Theory and Practice of Modern Sport Leadership  
Spring of every year. 3(3-0) ~~R: Open to graduate students in the Sport Coaching and Leadership Graduate Certificate or in the Sport Coaching and Leadership Major or approval of department.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Theories of management and organizational behavior in a sport context. Practical strategies and methods for management, development, and advancement of sport professionals, athletes, and stakeholders.  
~~Effective Spring 2020~~ Effective Fall 2022
- KIN 852      ~~Ethics in Sport Coaching and Leadership~~  
Ethics in Sport Coaching, Leadership, and Administration  
Spring of every year. Summer of every year. 1(1-0) ~~R: Open to graduate students in the Sport Coaching and Leadership Graduate Certificate or in the Sport Coaching and Leadership Major or approval of department.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
~~Ethical decision-making processes and moral obligations of the sport coach and leader.~~  
Ethical decision-making processes. Moral obligations of sport coaches, leaders, and administrators.  
~~Effective Summer 2019~~ Effective Fall 2022
- KIN 853      ~~Athletic Administration in Higher Education~~  
Athletic Administration and Governance  
Fall of every year. 3(3-0) ~~R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.~~  
~~Administrative theory, structure, and budget. Facilities, equipment, and marketing. Legal, medical, and safety aspects. Governance structures and organization processes of professional, collegiate, scholastic, and amateur sport. Managerial and administrative governance activities. Structure and function of sport organizations. Policy issues and ethical questions.~~  
SA: PES 853  
~~Effective Fall 1998~~ Effective Fall 2022
- KIN 854      ~~Legal and Administrative Issues for Administrators and Coaches~~  
Legal Aspects of Sport  
Spring of every year. 3(3-0) ~~R: Open to students in the Education Major or in the Sport Coaching and Leadership Graduate Certificate or in the Sport Coaching and Leadership Major.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
~~Responsibilities of administrators, directors of recreational programs and athletic coaches for providing and maintaining educationally sound athletic programs for amateur athletes. Concepts, policies and procedures that enhance the physical and psychological health of amateur athletes. Obligations for managing the risks of participation in physical activities.~~  
General legal concepts, federal and state legislation, legal liabilities, duty of care for sport coaches and administrators. Legal issues in amateur sport, safety of sport participants and spectators, injury prevention and management.  
~~Effective Spring 2017~~ Effective Fall 2022

- KIN 855 Psychosocial Bases of Coaching Athletes  
Fall of every year. 3(3-0) ~~R: Open to students in the Education Major or in the Sport Coaching and Leadership Graduate Certificate or in the Sport Coaching and Leadership Major or approval of department.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
~~Athlete motivation, motivational climates, and the social psychology of coaching and leadership. Communication skills and leadership behaviors. Mental skills that enhance an athlete's performance.~~ Athlete motivation, motivational climates, and the social psychology of coaching and leadership. Communication skills and leadership behaviors. Athlete mental health. Mental skills that enhance an athlete's performance.  
~~Effective Summer 2019~~ Effective Summer 2021
- KIN 856 Physical Bases of Coaching Athletes  
Summer of every year. 3(3-0) ~~R: Open to students in the Education Major or in the Sport Coaching and Leadership Graduate Certificate or in the Sport Coaching and Leadership Major.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Principles of anatomy, biomechanics, and physiology for coaching amateur athletes in various sports. Relationships between the biological bases of coaching and physical conditioning, and performance enhancement.  
~~Effective Spring 2017~~ Effective Fall 2022
- KIN 857 Promoting Positive Youth Development Through Sport  
Fall of every year. 3(3-0) ~~R: Open to graduate students in the Education Major or in the Sport Coaching and Leadership Major or in the Sport Coaching and Leadership Graduate Certificate.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Educational athletic programs for youth. Positive youth development through sports. Coaching and mentoring.  
~~Effective Spring 2017~~ Effective Fall 2022
- KIN 865 Stages of Athlete Development  
Spring of every year. 3(3-0) ~~R: Open to graduate students in the Education Major or in the Sport Coaching and Leadership Major or in the Sport Coaching and Leadership Graduate Certificate.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
Developmental analyses of stages of athletes. Early childhood through early adulthood. Motor skill, biological maturation, and physical growth issues.  
~~Effective Spring 2017~~ Effective Fall 2022
- KIN 868 Skill Development in Athletes  
Spring of every year. 3(3-0) ~~R: Open to graduate students in the Education Major or in the Sport Coaching and Leadership Major or in the Sport Coaching and Leadership Graduate Certificate.~~ R: Open to graduate students in the Education Major or in the Sport Coaching Graduate Certificate or in the Sport Coaching, Leadership and Administration Major or approval of department.  
~~Best practices in developing skills. Age appropriate approaches. Maximizing abilities of individuals and team success. Scouting methods and competitive sport approaches.~~ Motor learning principles applied to sport coaching. Constraints-led approaches to coaching. Individual, environmental, and task constraints. Methods of skill instruction.  
~~Effective Spring 2017~~ Effective Fall 2022
- KIN 872 ~~Coaching Science: Applied Research~~  
The Science of Sport Coaching, Leadership, and Administration  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~R: Open to master's students in the Sport Coaching and Leadership Major.~~ R: Open to master's students in the Sport Coaching, Leadership and Administration Major or approval of department.  
~~Coaching, sport leadership, science and best practices. Applied research and inquiry.~~ Science of sport coaching, leadership, and administration. Professional and reflective learning strategies. Coaching and leadership philosophy. Scientific literacy, evidence-based practices, research translation, and applied inquiry. Research ethics training.  
~~Effective Spring 2017~~ Effective Fall 2022

- KIN 880 Sport and Leadership Practicum  
Fall of every year. Spring of every year. Summer of every year. 3(1-4) ~~P: (KIN 872 and KIN 856) and ((KIN 855 or concurrently) or (KIN 857 or concurrently))~~ P: KIN 872 or approval of department ~~R: Open to master's students in the Sport Coaching and Leadership Major.~~ R: Open to master's students in the Sport Coaching, Leadership and Administration Major or approval of department.  
Supervised practical experiences in specific sport or leadership programs.  
~~Effective Spring 2017~~ Effective Fall 2022
- KIN 896 ~~Integrative Capstone in Sport Coaching and Leadership~~  
Integrative Capstone in Sport Coaching, Leadership and Administration  
Fall of every year. Spring of every year. Summer of every year. 2(2-0) P: KIN 872 and KIN 880 or approval of department ~~R: Open to master's students in the Sport Coaching and Leadership Major.~~ R: Open to master's students in the Sport Coaching, Leadership and Administration Major.  
Integrative capstone in coaching science, best practices, leadership, and management in sport.  
Request the use of the Pass-No Grade (P-N) system.  
~~Effective Summer 2019~~ Effective Fall 2022

### **SCHOOL OF PLANNING, DESIGN AND CONSTRUCTION**

- CMP 210 Commercial Construction Methods  
Fall of every year. 3(3-0) ~~P: CMP 124 or concurrently~~ P: CMP 124 R: Open to freshmen or sophomores or juniors in the Construction Management Major or approval of school. ~~C: CMP 214 concurrently.~~  
~~Commercial construction: principles, materials, assemblies, and commercial blueprints.~~  
Commercial construction: principles, materials, and assemblies.  
SA: BCM 210  
~~Effective Summer 2013~~ Effective Fall 2021
- CMP 222 Statics and Strengths of Materials  
~~Fall of every year.~~ Spring of every year. 3(3-0) ~~P: (CMP 210 and CMP 211) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231)~~ P: (CMP 210 and CMP 124) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231 or PHY 231C) R: Not open to seniors. Not open to students with credit in CE 221.  
Equilibrium of forces. Free body diagrams. Force components. Bending moments. Stress and strain. Mechanical properties of materials. Beams and trusses. Computer applications. Indeterminate structures.  
SA: BCM 222  
~~Effective Fall 2014~~ Effective Fall 2021
- CMP 230 Utility Systems  
Spring of every year. 4(4-0) ~~P: (CMP 210) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231)~~ P: (CMP 210 and CMP 124) and (MTH 124 or MTH 132 or LB 118) and (PHY 183 or PHY 231 or PHY 231C) R: Not open to seniors.  
Design and analysis of utility and environmental systems in residential and commercial construction with a focus on mechanical, electrical, and plumbing systems  
SA: BCM 230  
~~Effective Fall 2019~~ Effective Fall 2021
- CMP 245 Principles of Green Building  
Spring of every year. 3(3-0) ~~P: CMP 210 and (CMP 230 or concurrently)~~ P: CMP 210 and (CMP 230 or concurrently) and CMP 124 R: Not open to seniors.  
Origins of green building in the U.S. Codes, regulations, and standards governing green building practice. The whole building concept and airflow, thermal, and moisture movement in buildings. Sustainable building systems and modern green construction practices.  
~~Effective Spring 2020~~ Effective Fall 2021

- CMP 305 Site Construction and Measurement  
Fall of every year. 3(2-2) P: CMP 210 R: Open to juniors or seniors in the Construction Management Major.  
~~Site construction methods, materials and equipment for buildings, soil, foundation, erosion, and storm water. Layout, leveling, surveying, and underground utilities.~~ Site construction methods, materials and equipment for soils, foundations, foundation types, erosion and storm water control. Site layout, leveling, elevations, and underground utilities.  
SA: BCM 305  
~~Effective Summer 2013~~ Effective Fall 2021
- CMP 315 Construction Quantity Surveying  
Spring of every year. 3(2-2) P: ~~CMP 305 and (CSE 101 or CSE 131 or CSE 231 or CSS 110)~~ P: CMP 305 and CMP 322 R: Open to juniors or seniors in the Construction Management Major or in the Civil Engineering Major or approval of school.  
Measurement of quantities for construction projects. Work breakdown structure. Industry standards.  
SA: BCM 315  
~~Effective Summer 2013~~ Effective Fall 2021
- CMP 401 Construction Safety Management  
Fall of every year. 3(3-0) P: ~~CMP 305 RB: CMP 385 or (CMP 423 or concurrently)~~ R: Open to juniors or seniors in the Construction Management Major or in the Civil Engineering Major or approval of department. R: Open to juniors or seniors in the Civil Engineering Major or in the Construction Management Major or approval of school.  
Construction safety with Occupational Safety and Health Administration (OSHA) emphasis. General safety and health provisions, records, and safety management programs. Personnel protection and lifesaving equipment. Economic impact of safety program.  
SA: BCM 401  
~~Effective Fall 2017~~ Effective Fall 2021
- CMP 435 Residential Building and Development Projects (W)  
Fall of every year. 3(1-4) P: ~~((ACC 201 and ACC 202) or ACC 230) and ((CMP 423 or concurrently) and completion of Tier I writing requirement)~~ P: (ACC 230 and CMP 245 and CMP 325 and CMP 328 and (CMP 401 or concurrently)) and completion of Tier I writing requirement R: Open to seniors in the Construction Management Major.  
Working in teams, applying skills of construction project management to develop a residential project and business plan that addresses preconstruction, construction, and marketing areas  
SA: BCM 435  
~~Effective Spring 2020~~ Effective Fall 2021
- CMP 491 Special Topics in Construction Management  
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. ~~R: Open to undergraduate students in the Construction Management major. Approval of department.~~ R: Open to undergraduate students in the Construction Management Major. Approval of school.  
Topics such as computer methods in construction management, construction technology, solar energy, special land use codes, or new technology management.  
SA: BCM 491  
~~Effective Fall 2014~~ Effective Summer 2021



## DEPARTMENT OF ROMANCE AND CLASSICAL STUDIES

- FRN 320 Self-Expression in Writing (W)  
Exploring Diversity and Minorities in the Francosphere  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: ((FRN 202) or designated score on French Placement test ) and Completion of Tier I Writing Requirement~~ P: ((FRN 202 or FRN 204) or designated score on French Placement test ) and Completion of Tier I Writing Requirement  
Writing practice in a variety of forms. Reading of excerpts from French and Francophone literature in order to enrich vocabulary and analyze style. Grammar review. Exploration of diverse perspectives in the French-speaking world. Study of the cultures and arts from various geographical regions, historical periods, and minority groups.  
Effective Spring 2014 Effective Fall 2022
- FRN 330 French Phonetics  
Progressing in French Pronunciation  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: (FRN 202) or designated score on French Placement test~~ P: (FRN 202 or FRN 204) or designated score on French Placement test  
Analysis of French pronunciation for listening and speaking. Practice and analysis of topics related to the pronunciation of the French language. Focus on the development of oral comprehension skills as well as pronunciation accuracy.  
Effective Spring 2014 Effective Fall 2022
- FRN 340 Introduction to Reading French Literature (W)  
Connecting with the Literatures of the Francosphere (W)  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) ~~P: (FRN 202 and FRN 320) and Completion of Tier I Writing Requirement~~ P: (FRN 310 or FRN 320) and Completion of Tier I Writing Requirement  
Close reading and interpretation of French drama, poetry, fiction, and other prose forms. Study of the rich diversity of literature written in the French language. Literary works from Europe, Africa, the Caribbean, and Asia will expose students to the literary expressions and histories of these cultures.  
Effective Spring 2014 Effective Fall 2022
- FRN 430 French Linguistics  
Perspectives in the French Language  
~~Fall of every year. Spring of every year. Summer of every year.~~ 3(3-0) ~~A student may earn a maximum of 6 credits in all enrollments for this course. A student may earn a maximum of 9 credits in all enrollments for this course. P: FRN 320 and FRN 330~~ P: (FRN 330) and (FRN 310 or FRN 320 or FRN 340 or FRN 350) and (FRN 310 or FRN 320 or FRN 340 or FRN 350)  
Key issues in French linguistics and contrastive structures of French and English. Issues in French linguistics and the French language, including syntax, phonology, morphology, regional variation, stylistic variation, acquisition, historical evolution, translation. Topics will vary depending on the semester.  
Effective Spring 2014 Effective Fall 2022
- FRN 491 Special Topics in French  
Special Topics in Study Abroad  
Fall of every year. Spring of every year. Summer of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: FRN 310 or FRN 320 ~~R: Not open to sophomores or freshmen. Approval of department.~~ R: Not open to freshmen or sophomores. Approval of department.  
Special topics supplementing regular course offerings proposed by faculty on a group study basis. French language, literature, culture, or professional studies while studying abroad. Topics will vary.  
Effective Spring 2014 Effective Fall 2022