The effective date for new programs subject to Statewide Academic Program review is implemented in accordance with the Statewide Academic Program Review calendar.
This report is prepared and distributed for the following purposes:

1. To report new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
2. To notify the initiating colleges, schools, and departments of approval by the University Committee on Curriculum of their requests for new academic programs, changes in academic programs, discontinuations of academic programs, new courses, permanent changes in courses, and deletions of courses.
3. To provide information to members of the faculty in each department about academic programs and courses in all colleges, departments, and schools of the University.

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

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES:
Organized by colleges in alphabetical order. For a given college, academic units are organized in alphabetical order. For a given academic unit, degrees, majors, and specializations are organized in alphabetical order.

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

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

1One or more of the abbreviations that follow may be included in a course entry:
P: = Prerequisite monitored in SIS
C: = Corequisite
R: = Restriction
RB: = Recommended background
SA: = Semester Alias
TO: Faculty Senate  
FROM: University Committee on Curriculum  
SUBJECT: New Academic Programs and Program Changes: New Courses and Course Changes

PART I - NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF ARTS AND LETTERS

1. Change the requirements for the Bachelor of Fine Arts degree in Art Education in the Department of Art, Art History, and Design. The Teacher Education Council (TEC) approved this request at its March 18, 2024 meeting.

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

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

       The University's Tier II writing requirement for the Art Education major is met by completing Studio Art 411 and 412. Those courses are referenced in item 4. below.

   (2) In item 3., make the following changes:

       (a) Change the total credits from '24' to '15'.

       (b) Delete the following courses:

           STA 112 Art and Design: Concepts and Practices  3
           STA 340 Ceramics: Hand Building  3
           STA 345 Ceramics: Wheel Throwing  3

   (3) Delete item 3. j.

   (4) Reletter item 3. f., g., h., and i. to 3. g., h., i., and j.

   (5) Add the following 3. f.:

       One of the following courses (3 credits)
       STA 340 Ceramics: Hand Building  3
       STA 345 Ceramics: Wheel Throwing  3

   (6) Replace item 4. with the following:

       The following Professional Education Courses (37 credits):
       CEP 240 Introduction to Exceptional Learners  3
       STA 310 Clinical Experience in Visual Arts Education I  4
       STA 410 Clinical Experience in Visual Arts Education II  3
       STA 411 Seminar in Visual Arts Education I (W)  3
       STA 412 Seminar in Visual Arts Education II (W)  3
       STA 413 Student Teaching Internship in Visual Arts Education  6
       TE 101 Social Foundations of Justice and Equity in Education  3
       TE 102 Pedagogy and Politics of Justice and Equity in Education  3
       TE 150 Reflections on Learning  3
2. Establish a **Minor** in *Screenwriting* in the Department of English. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 22, 2024 meeting.

a. **Background Information:**

Student demand for courses in screenwriting has been increasing. They have expressed an interest in a structured curriculum and a greater selection of advanced offerings. Some members of the faculty regularly offer independent study courses to meet this interest. To formalize this work, the Film Studies Program introduced FLM 484, an advanced special topics course in screenwriting for AY 23/24. With this course in place, we now have the core set of offerings for a minor in screenwriting.

MSU has a long history of producing successful screenwriters. We have strong student demand in screenwriting due, in part, to this history. Our list of Spartans in Hollywood includes several alumni with an active interest in maintaining ties to the university. A minor in screenwriting would fit as a supplement to the university’s existing majors in Film Studies and Digital Storytelling. It would follow the format of our minors in Fiction Filmmaking and Documentary Filmmaking.

The minor will formalize existing strengths in this field and aligns with the College of Arts and Letters and university goals of enhancing the presence of the arts on campus.

b. **Academic Programs Catalog Text:**

The Minor in Screenwriting, which is administered by the Department of English, offers undergraduate students a foundation in the production of scripts for fiction films and television programs.

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

Students who are planning careers in writing for film and television should consider combining this minor with a major in Film Studies or Digital Storytelling.

Students who plan to complete the requirements of the minor should consult the undergraduate advisor in the Department of English or the Director of Film Studies in the Department of English.

**Admission**

Students considering the Minor in Screenwriting must have a minimum grade-point average of 2.0.

**Requirements for the Minor in Screenwriting**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLM 230</td>
<td>4</td>
</tr>
<tr>
<td>FLM 260</td>
<td>4</td>
</tr>
<tr>
<td>FLM 334</td>
<td>3</td>
</tr>
<tr>
<td>FLM 434</td>
<td>3</td>
</tr>
<tr>
<td>FLM 484</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete a minimum of 16 credits from the following:
PART I – NEW PROGRAMS AND PROGRAM CHANGES

FLM 300 History of Film to Midcentury 3
FLM 301 History of Film after Midcentury 3
FLM 337 Topics in Film Form 3
FLM 350 National and Transnational Cinemas 3
FLM 355 Studies in Film Genres 3
FLM 380 Classical Film and Media Theory 3
FLM 381 Contemporary Film and Media Theory 3
FLM 400 Seminar in the History of Film (W) 3
FLM 450 Studies in Ethnic Film 3
FLM 451 Studies in Postcolonial Film 3
FLM 452 Studies in Film, Gender, and Sexuality 3
FLM 460 Seminar in Digital Film and Emergent Media (W) 3
FLM 480 Seminar in Film and Media Theory (W) 3
FLM 484 Advanced Topics in Screenwriting (may be repeated with a different topic) 3
FLM 491 Special Topics in Film Studies 3
THR 304 Topics in Acting/Directing II 3
THR 350 Plays as Film 3

Effective Fall 2024.

3. Establish a Bachelor of Arts degree in Nonprofit Leadership, Religion, and Social Change in the Department of Religious Studies. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 22, 2024 meeting.

a. Background Information:

The proposal for a new major in nonprofit leadership, religion, and social change originated from faculty members in the Department of Religious Studies as a natural development of their existing Nonprofit Leadership undergraduate concentration and current catalog of courses. The department also has a new master’s and graduate certificate program in Nonprofit Leadership, Global Cultures, and Social Enterprise (GNL). The proposed bachelor’s program is unique in relation to current MSU offerings and programs at other educational institutions in combining practical understanding of nonprofits (501c3 organizations), charitable work, and philanthropy with a distinctive emphasis on cultural knowledge in a global religious context. It expands on related course offerings within the College of Arts and Letters, and distinctly adds to current programs outside the College of Arts and Letters, specifically community sustainability courses and MSU’s minor in entrepreneurship and innovation. The proposed major provides professional orientation and career specialization along with a sound humanities foundation. It provides students with the skills and knowledge necessary for success in public and nonprofit organizations. To be successful in non-profit organizations that work with people and communities, a knowledge of human religious cultures is essential. Practical skills and knowledge are skills a non-profit professional needs to navigate a global cultural world. By combining practical skills like grant making, grants evaluation, and intercultural competence with the College of Arts and Letters’ traditional emphases on global cultures and arts, its course work activates humanistic studies by applying them to international and national nonprofit activities, charitable projects, philanthropic enterprises, NGOs, and civil society. It also includes course work in areas of personal development and well-being for the nonprofit professional, providing a program distinctive not only in Michigan, but also nationally.

At the undergraduate level, there is no other nonprofit major at MSU. MSU’s commitment to DEI and ethics initiatives, along with the colleges’ focus on a culture of care and providing professional pathways for humanities students. The Department of Religious Studies distinctive capacity to engage with and expand knowledge of nonprofits, philanthropy, charity, and service, as evidenced by its current undergraduate concentration and graduate programs, provides an ideal setting to develop an undergraduate major in nonprofit leadership and global cultural knowledge. Its programs offer students a foundational understanding of religious cultures, societies, and values that situate religion as a part of human culture and support skills in communicating effectively across cultures (intercultural competence). In religious studies, individuals are trained to work with one of the foundations of cultural diversity: religion, both in terms of diverse traditions as well as people’s different perspectives on religion in modernity. With no advocacy for a specific stance on religion, the department’s goal is to prepare students to recognize how religion operates in the world so that they can successfully formulate and manage projects with diverse colleagues. Such
an approach, when combined with faculty already versed and experienced in the realms of nonprofits, charity, philanthropy, and social entrepreneurship, make the department an ideal home for a distinctive major that combines a humanistic education with a professional pathway for students interested in service and public engagement.

b. **Academic Programs Catalog Text:**

The Bachelor of Arts degree in Nonprofit Leadership, Religion, and Social Change will provide students the opportunity to develop deeper knowledge of national and international nonprofit organizations, NGOs, philanthropic enterprises, charitable actions, and careers in service in the context of global cultural knowledge, religious engagements, and spiritual orientations. There are five areas of primary focus: (1) nonprofit, philanthropic, and charity governance, leadership, and legal structures; (2) NGOs, global civil society, and theories, methods, and examples of social change; (3) values, virtues, ethics, and justice in relation to global cultural and religious knowledge; (4) human, ecological, and societal flourishing in civil society, particularly in contexts that may be labeled as “religious” or “spiritual”; and (5) organizational innovation and leadership theory/practice in global religious and cultural contexts. Practical application, experiential learning, and social engagement are emphasized.

**Requirements for the Bachelor of Arts Degree in Nonprofit Leadership, Religion, and Social Change**

1. The University requirements for bachelor’s degrees as described in the Undergraduate Education section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Nonprofit Leadership, Religion, and Social Change.

   The University’s Tier II writing requirement for the Nonprofit Leadership, Religion, and Social Change major is met by completing Religious Studies 485 or 490 or 491 or 499. Those courses are referenced in item 3. e. below.

2. The requirements of the College of Arts and Letters for the Bachelor of Arts degree.

3. The following requirements for the major (minimum of 40 credits):

   **Foundations of Religious Studies (6 credits)**

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

      | Course Code | Course Title                                          | Credits |
      |------------|-------------------------------------------------------|---------|
      | REL 101    | Exploring Religion                                    | 3       |
      | REL 102    | Exploring Spirituality                                | 3       |
      | REL 150    | Exploring Biblical Literature                          | 3       |
      | REL 206    | Spirituality, Belonging, and the Quest for Purpose    | 3       |
      | REL 301    | Methods and Theories in the Study of Religion          | 3       |

   b. One of the following courses in global religion (3 credits):

      | Course Code | Course Title                                          | Credits |
      |------------|-------------------------------------------------------|---------|
      | REL 306    | Native American Religions                             | 3       |
      | REL 308    | Black Spirituality and Religion                        | 3       |
      | REL 310    | Judaism                                               | 3       |
      | REL 320    | Christianity                                          | 3       |
      | REL 325    | East Asian Buddhism                                    | 3       |
      | REL 330    | Islam                                                 | 3       |
      | REL 335    | East Asian Religions                                  | 3       |
      | REL 340    | Hinduism                                              | 3       |
      | REL 350    | Buddhism in South Asia                                 | 3       |
      | REL 355    | Southeast Asian Religions                             | 3       |
      | REL 360    | African Religion                                       | 3       |
      | REL 365    | Evangelicalism in the U.S.                            | 3       |
      | REL 414    | Jewish Identity (W)                                   | 3       |
      | REL 420    | Birth of Christianity (W)                             | 3       |
      | REL 425    | Apocalypse Then and Now (W)                           | 3       |
      | REL 430    | The Qur'an and Its Interpreters (W)                    | 3       |
      | REL 432    | Modern Muslim Thought (W)                             | 3       |
      | REL 441    | Devotional Hinduism (W)                               | 3       |
c. All of the following nonprofit leadership courses (15 credits):
   REL 185 Introduction to Religion and Nonprofits 3
   REL 207 Intercultural Competence, Religious Diversity, and Self-awareness 3
   REL 285 Introduction to Social Entrepreneurship and Religion 3
   REL 455 Introduction to Monitoring, Evaluation, and Learning for Nonprofits 3
   REL 485 Religion and Nonprofit Leadership (W) 3

d. Nine credits from the following religious studies nonprofit courses, At least 3 credits must be at the 300 or 400 level.
   REL 210 Religion and the Environment 3
   REL 250 Religion and the Arts 3
   REL 305 Spirituality, Peacebuilding, and Social Change 3
   REL 311 International Development and NGO Management 3
   REL 385 Religion, Health, and Healthcare 3
   REL 456 Indigenous Environmental Stewardship, Ontologies, and Governance 3
   REL 457 Indigenous Research Methodologies and Ethics 3

e. Two of the following nonprofit courses from the following (6 credits):
   AAAS 300 Communities in Action 3
   AAAS 401 Social Media and New Journalism 3
   ACM 461 Financial Management and Planning of Arts, Cultural, and Museum Management 3
   ACM 462 Marketing and Public Relations in Arts, Cultural, and Museum Management 3
   ACM 465 Leadership and Innovation for Arts, Cultural and Museum Management 3
   ACM 467 Development and Fundraising for Arts, Cultural Management, and Museums 3
   CSUS 322 Leadership for Community Sustainability 3
   CSUS 429 Program Evaluation for Community Sustainability 3
   CSUS 430 Nonprofit Organizational Management for Community Sustainability 3
   CSUS 433 Grant Writing and Fund Development 3
   WRA 260 Writing, Rhetoric, Cultures, and Community 3
   WRA 331 Writing in the Public Interest (W) 3
   WRA 337 Writing and Public Policy 3
   WRA 401 Rhetoric, Leadership, and Innovation 3
   WRA 441 Social Justice as Rhetorical Practice 3
   WRA 453 Grant and Proposal Writing 3

f. Complete 3 credits of Experiential Learning through one or more of the following experiences:
   Study Away or Study Abroad 1 to 4
   REL 490 Independent Study (W) 1 to 4
   REL 493 Religious Studies Internship 1 to 4
   REL 499 Senior Thesis or Project (W) 1 to 4

Effective Fall 2024.
ELI BROAD COLLEGE OF BUSINESS

1. Change the requirements of the Master of Science degree in Business Data Science and Analytics in the Eli Broad College of Business. The University Committee on Graduate Studies (UCGS) approved this request at its March 18, 2024 meeting.

   a. Under the heading Requirements for the Master of Science Degree in Business Data Science and Analytics make the following changes:

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

            | Course       | Credits |
            |--------------|---------|
            | CSE 881      | 3       |
            | CSE 891      | 3       |
            | ITM 882      | 3       |
            | ITM 893      | 3       |
            | ITM 888      | 3       |

            Add the following courses:

            | Course                          | Credits |
            |---------------------------------|---------|
            | ACC 822 Information Systems Project Management | 1       |
            | CSE 801A Introduction to Big Data Analysis | 3       |
            | CSE 801B Introduction to Data Mining | 3       |
            | CSE 891 Selected Topics          | 1       |
            | ITM 843 Career Management        | 1       |
            | ITM 887 Analytics Proseminar     | 1       |
            | ITM 893 Business Analytics Internship | 1       |
            | ITM 888 Capstone: Business Analytics | 1       |
            | MKT 829 Digital Marketing        | 3       |

       (2) In item 1., in the note, delete ‘ITM 882’.

   Effective Fall 2024.

2. Change the requirements for the Master of Science degree in Accounting in the Department of Accounting and Information Systems. The University Committee on Graduate Studies (UCGS) approved this request at its March 18, 2024 meeting.

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

   a. Under the heading Requirements for the Master of Science Degree in Accounting, make the following changes:

      (1) In item 2., under the Public and Corporate Accounting concentration, add the following course:

            | Course                          | Credits |
            |---------------------------------|---------|
            | ACC 845 Environmental, Social and Governance (ESG) Measurement and Disclosure | 3       |

      (2) In item 3., add ‘transaction services’ as an elective area.

   Effective Spring 2025.
3. Change the requirements for the **Master of Science** degree in **Accounting and Data Analytics** in the Department of Accounting and Information Systems. The University Committee on Graduate Studies (UCGS) approved this request at its March 18, 2024 meeting.

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

   a. Under the heading **Requirements for the Master of Science Degree in Accounting and Data Analytics**, make the following change:

      (1) In item 2., under the **Managerial Analysis for Decision Making** concentration, change the title of ‘ACC 841’ to ‘Corporate Sustainability Strategy Development and Implementation’.

Effective Spring 2025.

4. Change the name of the **Graduate Certificate** in **Accounting for Management Decision Making** to **Managerial Analysis for Decision Making** in the Department of Accounting and Information Systems. The University Committee on Graduate Studies (UCGS) approved this request at its March 18, 2024 meeting.

   No new students are to be admitted to the Graduate Certificate in Accounting for Management Decision Making effective Fall 2024. No students are to be readmitted to the Graduate Certificate in Accounting for Management Decision Making effective Fall 2024. Effective Fall 2026, coding for the Graduate Certificate in Accounting for Management Decision Making will be discontinued and the program will no longer be available in the Department of Accounting and Information Systems. Students admitted to the graduate certificate prior to Fall 2024 will be awarded a Graduate Certificate in Accounting for Management Decision Making in the Department of Accounting and Information Systems. Students admitted to the graduate certificate Fall 2024 and forward will be awarded a Graduate Certificate in Managerial Analysis for Decision Making in the Department of Accounting and Information Systems.

5. Change the requirements for the **Minor in Entrepreneurship and Innovation** in the Department of Management.

   a. Under the heading **Requirements for the Minor in Entrepreneurship and Innovation** make the following changes:

      (1) Replace the introductory text with the following:

      Students must complete 15 credits in courses from the following list. A 2.0 grade-point average must be maintained in courses completed for the minor. Students must also complete two Entrepreneurship and Innovation Experiences.

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

      | AL  | 300 | Starting Your Business in the Creative, Visual, and Theatre Arts |
      | EAD | 361 | Educational Reform and Policy Analysis |
      | ESHP| 231 | Venture Launch |
      | HRT | 407 | Horticulture Marketing |
      | LB  | 268 | The Business of Medicine |
      | PLS | 302 | Urban Politics |
      | TE  | 201 | Current Issues in Education |
      | UP  | 201 | Introduction to Urban and Regional Planning |

     Replace the note with the following:

     Additional approved Entrepreneurship and Innovation elective courses are available at: https://entrepreneurship.msu.edu/courses.
(3) Replace item 3. with the following:

Completion of two **Entrepreneurship and Innovation Experiences**. Students may complete this requirement by choosing from the options offered on the Burgess Institute for Entrepreneurship and Innovation Web site. See [https://entrepreneurship.msu.edu/academics/experiences](https://entrepreneurship.msu.edu/academics/experiences).

Effective Fall 2024.

**COMMUNICATION ARTS AND SCIENCES**

1. Establish a **Minor** in **Digital Storytelling** in the School of Journalism. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 22, 2024 meeting.

   a. **Background Information**:

   In Fall 2021, the School of Journalism in the College of Communication Arts and Sciences launched the bachelor’s degree in Digital Storytelling. This new program was the result of a shift of faculty from the Department of Media and Information to the School of Journalism to leverage the expertise of the unified faculty, as well as the resources of WKAR, to benefit students with interests in television, film making, audio production and new media.

   In the time since, the School has received regular inquiries from faculty and students across the university seeking opportunities to marry the digital media production skills of the Digital Storytelling program with the subject matter expertise of their core academic programs. Students already apply the production skills they develop throughout the Digital Storytelling curriculum to a wide variety of professional careers after graduation, including film, television, corporate communications, digital advertising, new media and other fields. Employers in these fields typically build teams that include members with a high level of production skills as well as members with deep subject expertise. The new minor in Digital Storytelling would create an opportunity for students in academic programs across the university to marry their subject expertise in areas such as advertising, business, public policy, the sciences, and more to the production skills that are the core of the Digital Storytelling program. Students in the Digital Storytelling major, meanwhile, would benefit from increased opportunities to work in collaborative teams with students from these other academic programs.

   As of Fall 2023, there were approximately 25 students who had declared additional majors or second-degree programs in Digital Storytelling, further showing demand for students in various academic programs to add digital media production skills.

   Digital Storytelling joined the Journalism bachelor’s degree, which has roots to 1910 at the university, in the School of Journalism. The School of Journalism was one of the first journalism programs to be nationally accredited (1949), and one of the very few to be continuously accredited every six years since then by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC). ACEJMC assesses programs based on eight core standards: Mission, Governance and Administration; Curriculum and Instruction; Assessment of Learning Outcomes; Diversity and Inclusiveness; Faculty; Student Services; Resources, Facilities and Equipment; and Professional and Public Service. More on these standards can be found at [http://www.acejmc.org/policies-process/accrediting-standards/](http://www.acejmc.org/policies-process/accrediting-standards/).

   b. **Academic Programs Catalog Text**:

   The Minor in Digital Storytelling, which is administered by the School of Journalism, prepares students for a media-focused world and provides them with the tools and techniques needed for creative, entrepreneurial and analytical processes and production. Students gain the marketable skills necessary to pursue career paths in film, television, corporate communications, digital advertising, new media and other fields that use sound and image to entertain, inform and/or educate.

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

**Requirements for the Minor in Digital Storytelling**

Complete 15 credits from the following:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CAS 112</td>
<td>Story, Sound and Motion</td>
</tr>
<tr>
<td>3</td>
<td>DS 113</td>
<td>Story, Sound and Motion II</td>
</tr>
<tr>
<td>3</td>
<td>DS 202</td>
<td>Writing for Digital Storytelling</td>
</tr>
<tr>
<td>3</td>
<td>DS 211</td>
<td>Documentary Film History and Theory</td>
</tr>
<tr>
<td>3</td>
<td>DS 241</td>
<td>Filmmaking I: Basics of Film Production</td>
</tr>
<tr>
<td>3</td>
<td>DS 242</td>
<td>Multicam Production I</td>
</tr>
<tr>
<td>3</td>
<td>DS 243</td>
<td>Audio Storytelling</td>
</tr>
<tr>
<td>3</td>
<td>DS 311</td>
<td>Introduction to Documentary Filmmaking</td>
</tr>
<tr>
<td>3</td>
<td>DS 341</td>
<td>Filmmaking II: Creating Short Films</td>
</tr>
<tr>
<td>3</td>
<td>DS 342</td>
<td>Multicam Production II</td>
</tr>
<tr>
<td>3</td>
<td>DS 343</td>
<td>Podcasting</td>
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<tr>
<td>3</td>
<td>DS 344</td>
<td>Sound Design for Storytelling</td>
</tr>
<tr>
<td>3</td>
<td>DS 351</td>
<td>Producing for Cinema and Television</td>
</tr>
<tr>
<td>3</td>
<td>DS 409</td>
<td>Advanced Lighting and Camera Techniques</td>
</tr>
<tr>
<td>3</td>
<td>DS 440</td>
<td>Advanced Video Editing</td>
</tr>
<tr>
<td>3</td>
<td>DS 441</td>
<td>Filmmaking III: Advanced Filmmaking Capstone (W)</td>
</tr>
<tr>
<td>3</td>
<td>DS 442A</td>
<td>Multicam Production for Arts (W)</td>
</tr>
<tr>
<td>3</td>
<td>DS 442B</td>
<td>Multicam Production for Sports (W)</td>
</tr>
<tr>
<td>3</td>
<td>DS 442C</td>
<td>Multicam Production for News (W)</td>
</tr>
<tr>
<td>3</td>
<td>DS 443</td>
<td>Advanced Audio Design (W)</td>
</tr>
<tr>
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<td>JRN 212</td>
<td>2D Animation Storytelling</td>
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<tr>
<td>3</td>
<td>JRN 312</td>
<td>Stop Motion Animation Storytelling (W)</td>
</tr>
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<td>JRN 412</td>
<td>Scoring for Moving Pictures</td>
</tr>
<tr>
<td>3</td>
<td>JRN 413</td>
<td>3D Animation Storytelling</td>
</tr>
</tbody>
</table>

Effective Fall 2024.

**COLLEGE OF EDUCATION**

1. Change the requirements for the Master of Science degree in Athletic Training in the Department of Kinesiology. The University Committee on Graduate Studies (UCGS) approved this request at its March 18, 2024 meeting.

   a. Under the heading Admission make the following change:

      (1) In item 8, remove the following:

      First Aid/CPR/AED (3 credits) or current professional rescuers certification card; Medical Terminology (1 credit);

   b. Under the heading Requirements for the Master of Science Degree in Athletic Training make the following changes:

      (1) Change the total credits for the degree from ‘54’ to ‘51’.

      (2) Delete the following course:

      KIN 885  Sport Biomechanics

Effective Fall 2024.
2. Change the requirements for the Bachelor of Arts degree in Special Education in the Department of Counseling, Educational Psychology and Special Education. The Teacher Education Council (TEC) approved this request at its March 18, 2024 meeting.

   a. Under the heading Requirements for the Bachelor of Arts Degree in Special Education, make the following changes:

      (1) In item 2. c., in the Grade Three through Grade Six concentration, change item (3) to the following:

         All of the following courses (18 credits):

         TE 204 Engaging Elementary Learners in Science: Culture and Equity 3
         TE 332 Science Curriculum for Upper Elementary Learners (3-6) 3
         TE 340 Teaching and Learning Elementary Science (PK-6) 3
         TE 343 Teaching and Learning Elementary 3
         TE 405 Teaching Language and Literacy to Diverse Learners I (3-6) 3
         TE 406 Teaching Mathematics to Diverse Learners II (3-6) 3

      (2) In item 2. d., in the Learning Disabilities Area of Emphasis concentration, make the following changes:

         (a) Change the credits of CEP 405 from ‘6’ to ‘12’.

         (b) Delete item (2).

   Effective Fall 2024.

3. Establish a Master of Science degree in Integrated Secondary Science Education in the Department of Teacher Education. The University Committee on Graduate Studies (UCGS) recommended approval of this request at its February 19, 2024 meeting.

   a. Background Information:

      The Master of Science degree in Integrated Secondary Science Education is designed for students who have an undergraduate or graduate degree in a biological science, chemistry, earth science, environmental science, geology, or physics that wish to become state certified in secondary science education. This master’s program aims to increase the number of certified secondary science education students coming from MSU to address a nationwide and statewide shortage of science educators. Currently, there are many institutions across the country that offer master’s degree programs that also result in state certification. For example, the University of Michigan offers a four semester Master of Arts with secondary certification in many content areas. Although MSU does have methods to certify post-baccalaureate students, it currently accomplishes it through further undergraduate programming that does not result in additional degrees. This program will result in state certification for Integrated Science Secondary Education, as well as a Master’s degree from MSU’s College of Education (CoE). Through collaboration with MSU’s College of Natural Science and the CoE Teacher Preparation Program, we have a strong history of training highly qualified science teachers.

   b. Academic Programs Catalog Text:

      The Master of Science degree in Integrated Secondary Science Education is designed for persons who want a broad background in biology, chemistry, earth and space science, and physics and to understand the interrelationships between these disciplines. This program is designed primarily for people who plan to teach science (life science, chemistry, earth and space science, or physics) in secondary schools.
Admission

To be admitted into the Master of Science Degree in Integrated Secondary Science Education students must:

1. have a bachelor’s degree in biological science, chemistry, earth science, environmental science, geology, or physics;
2. have an undergraduate cumulative grade-point average of 2.50.

Requirements for the Master of Science Degree in Integrated Secondary Science Education

The program is available under Plan B (without thesis). The student must complete a total of 35 credits distributed as follows:

1. All the following courses (11 credits):
   - ISE 801 Laboratory Investigations in Secondary Education  4
   - ISE 821 Integrated Science Research and Engineering  3
   - ISE 822 Foundational Earth Systems for Secondary Science Education  4

2. All of the following courses (24 credits):
   - CEP 801 Psychological Development: Learner Differences and Commonalities  3
   - ISE 800 Problems in Science or Mathematics for Teachers  3
   - TE 820 Power and Pluralism in School Practice  3
   - TE 825 Diverse Learners and Learning Subject Matter  3
   - TE 846 Accommodating Differences in Literacy Learners  3
   - TE 860 Practice and Inquiry in Science Education  3
   - TE 861B Inquiry, Nature of Science, and Science Teaching  3
   - TE 894 Laboratory and Field Experiences in Teaching, Curriculum, and Schooling  3

3. Acquire teaching experience as a graduate teaching assistant for 4 semesters.

In addition to the requirements below, students will need to complete any necessary courses for state certification of the Integrated Science Secondary Education standards that they have not completed as part of their previous degree course work.

Effective Fall 2024.

COLLEGE OF ENGINEERING

1. Establish a Bachelor of Science degree in Technology Engineering in the College of Engineering. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its February 8, 2024 meeting.

   a. Background Information:

   The Bachelor of Science degree in Technology Engineering program was developed to fulfill the needs of industry workforce demands with an engineering graduate with a diverse skillset. The curriculum of the program offers options to students who may not meet the secondary admission requirements of other engineering programs due to GPA minimums but would be eligible for secondary admission to the Bachelor of Science degree in Technology Engineering. This offers an additional avenue for the retention of students within the College and the University.

   The program will seek accreditation by ABET Engineering Accreditation Commission (EAC).

   b. Academic Programs Catalog Text:

   The Bachelor of Science degree in Technology Engineering is an innovative program which prepares students for modern engineering challenges in the multidisciplinary, interconnected world. The degree is designed to develop engineering and technology foundational skills including, but not limited to, embedded electronic systems, computer aided design, product prototyping, data science, project management, and computer programming in Python and C++. Students will
choose a concentration in Mechatronics or Embedded Cybersecurity, to further advance their engineering and technology interests. The program utilizes hands-on, real-world projects to integrate modern technologies with the engineering mindset.

Requirements for the Bachelor of Science Degree in Technology Engineering

1. The University requirements for bachelor's degrees as described in the Undergraduate Education section of this catalog; 128 credits, including general elective credits, are required for the Bachelor of Science degree in Technology Engineering.

The University's Tier II writing requirement for the Technology Engineering major is met by completing Technology Engineering 480. That course is referenced in item 3. b. below.

Students who are enrolled in the College of Engineering may complete the alternative track to Integrative Studies in Biological and Physical Sciences that is described in item 1. under the heading Graduation Requirements for All Majors in the College statement. Certain courses referenced in requirement 3. below may be used to satisfy the alternative track.

2. The requirements of the College of Engineering for the Bachelor of Science degree.

The credits earned in certain courses referenced in requirement 3. below may be counted toward College requirements as appropriate.

3. The following requirements for the major:

   a. All of the following courses (29 credits):
      
      | Course   | Title                                      | Credits |
      |----------|--------------------------------------------|---------|
      | CEM 161  | General Chemistry Laboratory I             | 1       |
      | CSE 232  | Introduction to Programming II             | 4       |
      | ECE 230  | Digital Logic Fundamentals                 | 3       |
      | ME 280   | Graphic Communications                      | 2       |
      | MGT 325  | Management Skills and Processes            | 3       |
      | SCM 304  | Survey of Supply Chain Management          | 3       |
      | MSE 250  | Materials Science and Engineering          | 3       |
      | PHY 251  | Introductory Physics Laboratory I          | 1       |
      | PHY 191  | Physics Laboratory for Scientists I        | 1       |
      | PHY 252  | Introductory Physics Laboratory II         | 1       |
      | STT 180  | Introduction to Data Science               | 4       |
      | STT 201  | Statistical Methods                        | 4       |

   Or

   a basic math or science elective from a define course pool | 3

   b. All of the following courses (25 credits):
      
      | Course   | Title                                      | Credits |
      |----------|--------------------------------------------|---------|
      | TNG 210  | Manufacturing Processes and Prototyping    | 2       |
      | TNG 220  | Electrical Circuits                        | 4       |
      | TNG 310  | Advanced Graphics Communications           | 3       |
      | TNG 320  | Sensors and Signal Processing              | 3       |
      | TNG 322  | Electronics and Embedded Systems Lab       | 1       |
      | TNG 330  | Quality and Continuous Improvement         | 3       |
      | TNG 335  | Computer Security Fundamentals             | 3       |
      | TNG 430  | Engineering Project Management             | 3       |
      | TNG 480  | Technology Engineering Capstone (W)        | 3       |

   c. One of the following concentrations (16 credits):

   **Mechatronics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNG 340</td>
<td>Engineering Statics and Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>TNG 345</td>
<td>Mechanical Machine Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>TNG 440</td>
<td>Robotics, Automation, and Controls</td>
<td>3</td>
</tr>
<tr>
<td>TNG 445</td>
<td>Troubleshooting Mechatronic Systems</td>
<td>4</td>
</tr>
<tr>
<td>TNG 447</td>
<td>Topics in Mechatronics</td>
<td>3</td>
</tr>
</tbody>
</table>
PART I – NEW PROGRAMS AND PROGRAM CHANGES

**Embedded Cybersecurity**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNG 350</td>
<td>Operating System Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>TNG 355</td>
<td>Networks and Network Security</td>
<td>3</td>
</tr>
<tr>
<td>TNG 450</td>
<td>Hardware Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>TNG 455</td>
<td>Engineering Secure Hardware and Software</td>
<td>4</td>
</tr>
<tr>
<td>TNG 457</td>
<td>Topics in Embedded Cybersecurity</td>
<td>3</td>
</tr>
</tbody>
</table>

The concentration will be noted on the student’s academic record.

Effective Fall 2024.

2. **Change the Admission to the College statement in the College of Engineering.** The University Committee on Undergraduate Education (UCUE) approved this request at its February 8, 2022 meeting.

   a. Under the heading *Admission to the College*, add the following new paragraph five:

   Minimum criteria for admission to the Technology Engineering program:
   1. Completion of at least 28 credits earned after matriculation to Michigan State University.
   2. Completion of Mathematics 116 and 132 with a minimum grade of 2.0 in each course.
   3. A minimum grade-point average of 2.0 in all mathematics courses.
   4. Completion of Chemistry 141 or 151 or approved substitution or waiver.
   5. Completion of Physics 183 or 231.
   6. Completion of Engineering 102 or Computer Science 231.
   7. Completion of Engineering 100.

   Effective Fall 2024.

3. **Change the Graduation Requirements for All Majors in the College of Engineering.** The University Committee on Undergraduate Education (UCUE) approved this request at its February 8, 2024 meeting.

   a. Under the heading *Graduation Requirements for All Majors* make the following changes:

   (1) Add the following to item 1. b.:

   Technology Engineering majors may use Physics 231 or 232.

   (2) Add the following to item 1. c.:

   Technology Engineering majors may use Physics 251.

   (3) Change the first sentence of item 2. to the following:

   The requirements of the College of Engineering for the Bachelor of Science degree in all majors other than Technology Engineering that are listed below:

   (4) Change item 2. a. to the following:

   Mathematics 132, 133, 234, and 235. Computational Data Science and Computer Science majors are not required to complete Mathematics 235.
(5) Add the following item 3.:

3. The requirements of the College of Engineering for the Bachelor of Science degree in Technology Engineering that are listed below:
   b. Chemistry 141 or 151.
   c. Physics 183 or 183B or 231 and 184 or 184B or 232.
   d. Engineering 100.
   e. Engineering 102.
   f. Computer Science and Engineering 231.

Effective Fall 2024.

4. Change the requirements in the Bachelor of Science degree in Mechanical Engineering in the Department of Mechanical Engineering.

The concentrations in the Bachelor of Science degree in Mechanical 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 Mechanical Engineering make the following changes:

   (1) In item 3. b. delete the following courses:

   ME 332 Fluid Mechanics 4
   ME 451 Control Systems 4

   Add the following courses:

   ME 333 Fluid Mechanics 3
   ME 333L Fluid Mechanics Laboratory 1
   ME 452 Control Systems 3
   ME 452L Vibrations and Controls Laboratory 1

   (2) Under the heading Computational Design concentration replace the requirements with the following:

   To earn a Bachelor of Science degree in Mechanical Engineering with a computational design concentration, students must the requirements for the B.S. degree, including the following:

   All of the following courses (9 credits):
   ME 416 Computer Assisted Design of Thermal Systems 3
   ME 433 Introduction to Computational Fluid Dynamics 3
   ME 475 Computer Aided Design of Structures 3

   One of the following courses (3 credits):
   ME 417 Design of Alternative Energy Systems 3
   ME 445 Automotive Powertrain Design 3
   ME 456 Mechatronic System Design 3
   ME 465 Computer Aided Optimal Design 3

   (3) Delete the Concentration in Global Engineering.

   Students currently enrolled in the major have until US28 to complete the requirements for this concentration and have it noted on the student’s academic record.

Effective Fall 2024.
JAMES MADISON COLLEGE

1. Change the requirements of the Minor in Muslim Studies in James Madison College.

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

      (1) In item 2., under Integrative Studies in the Arts and Humanities add the following course:
          IAH 211C Area Studies and Multicultural Civilizations: The Americas (D) 4

      (2) In item 2., under Religious Studies add the following courses:
          REL 205 Myth, Self and Religion 3
          REL 232 Islam in America 3

      (3) In item 2., under Anthropology add the following courses:
          ANP 417 Introduction to Islam in Africa 3
          ANP 426 Urban Anthropology 3

      (4) In item 2., under Geography add the following course:
          GEO 340 Geography of Eurasia 3

      (5) In item 2., under Political Science add the following courses:
          PLS 345 Religion and World Politics 3
          PLS 346 Middle East Politics 3

      (6) Replace the text following the minor requirements with the following:

          The following courses do not always contain content relevant to the Minor in Muslim Studies. Before enrolling in any of these, please consult the Muslim Studies Minor coordinator to see if, in the semester in which a student wishes to enroll, the course counts toward the minor: Anthropology 491; French 415, 416, and 447; History 201, 450, 451, and 487; Integrative Studies in Arts and Humanities 211B, 211C, and 211D; Integrative Studies in Social, Behavioral and Economic Sciences 315 and 330B; Geography 340; James Madison College 320, 325, 390, 391, 492, and 497; Political Science 344, 345, 346, 351, and 358; Religious Studies 205 and 232.

Effective Fall 2024.

LYMAN BRIGGS COLLEGE

1. Request to recognize the Integrated Science-Secondary Education major leading to the Bachelor of Science degree in the College of Natural Science as a Coordinate Major in Lyman Briggs College.

Effective Fall 2024.
PART II - NEW COURSES

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

ACC 845    Environmental, Social and Governance (ESG) Measurement and Disclosure
Spring of every year. 3(3-0) R: Open to master's students in the Accounting Major. Approval of department.
Stakeholder vs shareholder theory and the elements of useful disclosures and quality non-financial metrics. Coverage of domestic and international reporting requirements, carbon accounting, renewable energy credits, carbon offsets, and the current state of domestic and international privacy and data security regulations. Investigation into the challenges of developing relevant environmental equity and social justice performance metrics. Course content provides a foundation to pursue ESG-related certifications.
Effective Spring Semester 2025

DEPARTMENT OF ART, ART HISTORY, AND DESIGN

STA 310    Clinical Experience in Visual Arts Education I
Spring of every year. 4(1-6) P: TE 102 and TE 150 R: Not open to freshmen or sophomores.
Directed and evaluated clinical experience placement in the Saturday Morning Art program.
Forming respectful relationships with students in the SmART classrooms and learning spaces.
Using assessment techniques to understand learner needs. Adapting curriculum and instruction to diverse learners. Exploration of common teaching dilemmas.
Effective Fall Semester 2024

STA 410    Clinical Experience in Visual Arts Education II
Fall of every year. 3(0-6) P: STA 310 R: Not open to freshmen or sophomores. C: STA 411 concurrently
Directed and evaluated placement in an elementary and/or secondary Visual Arts classroom.
Forming respectful relationships with students. Refinement of diverse instructional strategies.
Co-teaching worthwhile content to students with varied learning needs. Exploration of common teaching dilemmas.
Request the use of the Pass-No Grade (P-N) system.
Effective Fall Semester 2024

STA 411    Seminar in Visual Arts Education I (W)
Fall of every year. 3(3-0) P: STA 310 and Completion of Tier I writing requirement. R: Not open to freshmen or sophomores. C: STA 410 concurrently
Examining teaching as enabling diverse learners to create understanding, meaning, and purpose by engagement with the Visual Art curriculum at the elementary and secondary level (PreK-12).
Effective Fall Semester 2024

STA 412    Seminar in Visual Arts Education II (W)
Spring of every year. 3(3-0) P: STA 410 and STA 411 and Completion of Tier I writing requirement. R: Not open to freshmen or sophomores. C: STA 413 concurrently
Reflection on classroom teaching practice. Formation of professional learning communities devoted to collecting, analyzing, and interpreting data on Visual Arts teaching and learning.
Dilemmas surrounding Visual Arts teaching practice.
Effective Fall Semester 2024

STA 413    Student Teaching Internship in Visual Arts Education
Spring of every year. 6(0-25) P: STA 410 and STA 411 R: Not open to freshmen or sophomores. C: STA 412 concurrently
Directed and evaluated internship in an elementary and/or secondary Visual Arts classroom.
Increased emphasis on independent teaching. Maintaining classroom communities that ensure equitable access to important knowledge and skills. Assessing academic and social outcomes.
Request the use of the Pass-No Grade (P-N) system.
Effective Fall Semester 2024
COLLEGE OF ENGINEERING

TNG 210 Manufacturing Processes and Prototyping
Fall of every year. Spring of every year. 2(0-4) P: EGR 100 and (ME 280 or concurrently) R: Open to students in the Technology Engineering major.
Large and small scale conventional and additive manufacturing processes as well as electronics and chip manufacturing. Laboratory provides hands-on experiences with machine shop tools selection, use, and safe operation.
Effective Fall Semester 2024

TNG 220 Electrical Circuits
Fall of every year. Spring of every year. 4(3-2) P: PHY 232 and PHY 252 and MTH 132 R: Open to students in the Technology Engineering major. Not open to students with credit in ECE 201.
Applications and theory of circuits and circuit design including common standard electrical components. Laboratory provides hands-on study of both AC and DC circuits.
Effective Fall Semester 2024

TNG 310 Advanced Graphic Communications
Fall of every year. Spring of every year. 3(1-4) P: TNG 210 and ME 280 R: Open to students in the Technology Engineering major. Not open to students with credit in ME 385.
Continuation of graphic communications including electrical schematics, geometric design and tolerancing, electrical and mechanical system design, and the integration of computer aided design, computer aided manufacturing, and computer numerical control.
Effective Fall Semester 2024

TNG 320 Sensors and Signal Processing
Fall of every year. Spring of every year. 3(2-2) P: TNG 220 and STT 180 R: Open to students in the Technology Engineering major. Not open to students with credit in ECE 366.
Conceptualizing of real-world phenomena in terms of electrical output and the implementation of devices for transduction and measurement.
Effective Fall Semester 2024

TNG 322 Electronics and Embedded Systems Lab
Fall of every year. Spring of every year. 1(0-2) P: ECE 230 and TNG 320 R: Open to students in the Technology Engineering major.
Basic communication protocols utilized between device components and between device and host.
Effective Fall Semester 2024

TNG 330 Quality and Continuous Improvement
Fall of every year. Spring of every year. 3(3-0) P: STT 201 and TNG 310 R: Open to students in the Technology Engineering major.
Methods of quality control and improvement that are used in the manufacturing and service industries.
Effective Fall Semester 2024

TNG 335 Computer Security Fundamentals
Fall of every year. Spring of every year. 3(3-0) P: CSE 231 R: Open to students in the Technology Engineering major.
Topics in computer security are explored including data security, system security, and societal, ethical implications.
Effective Fall Semester 2024

TNG 340 Engineering Statics and Mechanics of Materials
Fall of every year. Spring of every year. 3(2-2) P: {MTH 132 and PHY 231} or PHY 183 R: Open to students in the Technology Engineering major. Not open to students with credit in CE 221 or ME 222.
Force systems, resultants, equilibrium, trusses, frames, beams, and shear-moments in beams and concepts of stress, strain, and deformation resulting from the various applied load configurations.
Effective Fall Semester 2024
TNG 345    Mechanical Machine Dynamics  
Spring of every year. 3(2-2) P: TNG 340 R: Open to students in the Technology Engineering major. Not open to students with credit in ME 361.  
Analysis and application of the kinematics and kinetics of mechanical machines and systems.  
Effective Fall Semester 2024

TNG 350    Operating System Fundamentals  
Fall of every year. 3(2-2) P: CSE 232 R: Open to students in the Technology Engineering major.  
Foundational concepts underpinning modern operating systems. Topics include memory management, process management and prioritization, and input/output abstractions (files, sockets, etc). Emphasis is placed on both theoretical understanding and practical application.  
Effective Fall Semester 2024

TNG 355    Networks and Network Security  
Spring of every year. 3(2-2) P: CSE 232 R: Open to students in the Technology Engineering major.  
Networking principles with an emphasis on IP and communication protocols. Understanding of the layered architecture of networks and the functions of each layer. Focus on security will show common network attack vectors and how technologies defend against such attacks.  
Effective Fall Semester 2024

TNG 430    Engineering Project Management  
Fall of every year. Spring of every year. 3(3-0) P: TNG 330 or concurrently R: Open to students in the Technology Engineering major.  
Managing an engineering project, including scope, schedule, budget, and communications. How design considerations such as public health and safety, engineering standards, customer diversity, and ethical responsibilities affect the project outcome. Engineering economics.  
Effective Fall Semester 2024

TNG 440    Robotics, Automation, and Controls  
Fall of every year. 3(2-2) P: TNG 320 and (TNG 322 or concurrently) and TNG 345 R: Open to students in the Technology Engineering major.  
Hardware, software, sensors, and human resources required to implement effective control systems. Interfacing and controlling a variety of electromechanical devices such as motors and pneumatic actuators. Industrial safety practices and procedures.  
Effective Fall Semester 2024

TNG 445    Troubleshooting Mechatronic Systems  
Spring of every year. 4(2-4) P: TNG 440 R: Open to students in the Technology Engineering major.  
Concepts, devices, and common practices associated with modern industrial control systems. Emphasis is on testing the output performance of the control system and troubleshooting techniques to address common issues.  
Effective Fall Semester 2024

TNG 447    Topics in Mechatronics  
Fall of every year. 3(3-0) P: TNG 440 or concurrently  
Current topics in mechatronics through case studies, product analysis, and exploration of state-of-the-art industry applications.  
Effective Fall Semester 2024

TNG 450    Hardware Cybersecurity  
Fall of every year. 3(2-2) P: TNG 322 and TNG 350 R: Open to students in the Technology Engineering major.  
Reverse engineering process and how to methodically learn about a system from the ground up. Techniques for observing system components, measuring internal traces, and dumping important system resources and defense techniques.  
Effective Fall Semester 2024
PART II – NEW COURSES

TNG 455  Engineering Secure Hardware and Software
Spring of every year. 4(2-4) P: TNG 355 and TNG 450
Projects, centered on the design of a resilient system, defining the attack surface area, and fortifying against potential attacks. Forensic analyses of hardware and software systems.
Effective Fall Semester 2024

TNG 457  Topics in Embedded Cybersecurity
Fall of every year. 3(3-0) P: TNG 450 or concurrently
Current topics in embedded cybersecurity through case studies, product analysis, and exploration of state-of-the-art industry applications.
Effective Fall Semester 2024

TNG 480  Technology Engineering Capstone (W)
Fall of every year. Spring of every year. 3(1-4) P: TNG 430 and Completion of Tier I writing requirement. R: Open to students in the Technology Engineering major.
Planning and execution of a team project involving the development of an engineered product or system, utilizing knowledge and skills acquired in prior engineering coursework. Project considerations include engineering standards, system constraints, design for customer needs, ethical issues, budget, timing, and safety.
Effective Fall Semester 2024

DEPARTMENT OF HISTORY

HST 374  South Asia before Colonialism
Fall of every year. 3(3-0)
Developments between 3000BCE and 1750CE in the areas which now comprise India, Pakistan, and Bangladesh.
Effective Fall Semester 2024

HST 375  Modern South Asia
Spring of every year. 3(3-0)
South Asia from colonialism to independence and after. Focus on the diverse histories and struggles of marginalized groups and the similarities and differences among the experiences of people in India, Pakistan, Bangladesh, Sri Lanka, Nepal and other South Asian countries.
Effective Fall Semester 2024

HST 384  Modern Mexico
Fall of every year. 3(3-0)
REINSTATEMENT Political, economic, and social history, including United States-Mexican relations.
Effective Fall Semester 2024

COLLEGE OF LAW

LAW 573A  State Constitutional Law
On Demand. 0 to 6 credits. R: Open to students in the MSU College of Law.
Constitutions of all fifty states, focusing on important state constitutional legal principles. Reading and interpreting state constitutional texts.
Effective Fall Semester 2024

DEPARTMENT OF LINGUISTICS, LANGUAGES, AND CULTURES

ARB 291  Special Topics in Arabic Studies
On Demand. 1 to 5 credits. A student may earn a maximum of 10 credits in all enrollments for this course. RB: Recommended background varies by topic and language of instruction.
Topics in Arabic Studies. Topics vary. Course may be taught in Arabic or English, according to topic.
Effective Fall Semester 2024
DEPARTMENT OF MECHANICAL ENGINEERING

ME 333    Fluid Mechanics
Fall of every year. Spring of every year. 3(3-0) P: (ME 361) and (CHE 321 or ME 201) and ((ME 391 or concurrently) and completion of Tier I writing requirement) R: Open to juniors or seniors in the Mechanical Engineering Major. Not open to students with credit in ME 332. C: ME 333L concurrently
Statics, control volume equations, similitude, and exact fluid solutions. Turbulence, pipe flow, boundary layer flow, compressible flow, and Navier-Stokes equations.
Effective Fall Semester 2024

ME 333L    Fluid Mechanics Laboratory
Fall of every year. Spring of every year. 1(0-3) R: Open to juniors or seniors in the Mechanical Engineering Major. C: ME 333 concurrently
Practices and measurement techniques for fluid mechanics including; measurement uncertainty, flow visualization, pressure, streamlines, conservation, laminar flow, and turbulent flow.
Effective Fall Semester 2024

ME 452    Control Systems
Fall of every year. Spring of every year. 3(3-0) P: ME 461 and ECE 345 R: Open to juniors or seniors in the Mechanical Engineering Major. Not open to students with credit in ME 451. C: ME 452L concurrently
Effective Fall Semester 2024

ME 452L    Vibrations and Controls Laboratory
Fall of every year. Spring of every year. 1(0-3) R: Open to juniors or seniors in the Mechanical Engineering Major. Not open to students with credit in ME 451. C: ME 452 concurrently
Effective Fall Semester 2024

COLLEGE OF NATURAL SCIENCE

ISE 801    Laboratory Investigations in Secondary Education
Fall of every year. 4(1-6) R: Open to master's students in the College of Natural Science or in the Center for Integrative Studies in General Science. Approval of department.
Exploration of the 3-dimensions of next generation science standards through laboratory investigations.
Effective Fall Semester 2024

ISE 821    Integrated Science Research and Engineering
Spring of every year. 3(2-2) R: Open to master's students in the College of Natural Science or in the Center for Integrative Studies in General Science. Approval of department.
Exploration of the NGSS Science and Engineering Practices through novel research and engineering design projects.
Effective Spring Semester 2025

ISE 822    Foundational Earth Systems for Secondary Science Education
Spring of every year. 4(3-2) R: Open to master's students in the College of Natural Science or in the Center for Integrative Studies in General Science. Approval of department.
Laboratory based exploration and implementation of 3D learning related to natural, physical, and chemical processes in the Universe, the planets and the Earth.
Effective Spring Semester 2025
DEPARTMENT OF RELIGIOUS STUDIES

REL 207  Intercultural Competence, Religious Diversity, and Self-awareness
Fall of odd years. Spring of even years. 3(3-0)
Enhance understandings of different global cultural systems, spiritualities, and community formations that could be called religious through meaningful and structured interactions to develop intercultural competence and interpersonal skills to engage others inclusively and respectfully, improve intercultural communication, and cultivate habits of self-reflection and self-awareness by exploring diversity.
Effective Fall Semester 2024

REL 305  Spirituality, Peacebuilding, and Social Change
On Demand. 3(3-0)
Exploration of the complex connection between religion, violence, and conflict resolution with a particular focus on global examples of spiritually inspired social movements, nonprofits, charities, philanthropies, and NGOs engaged in peacebuilding and social change connected to diversity, equity, and inclusivity.
Effective Fall Semester 2024

REL 311  International Development and NGO Management
On Demand. 3(3-0)
International NGO management tools and approaches in relation to religious studies methodologies, human resource and financial management systems with an emphasis on intercultural competence. Explore funding strategies, ways to measure impact and engagement with key stakeholders during project implementation through the study of diversity.
Effective Fall Semester 2024

REL 455  Introduction to Monitoring, Evaluation, and Learning for Nonprofits
On Demand. 3(3-0)
Understand concepts, theories, and tools for monitoring, evaluation, and learning in nonprofit settings by positioning the importance of cultural and religious identities, learning strategies and techniques for designing and implementing monitoring and evaluation plans, unpacking fundamentals of project learning tools and ethical guidelines for data collection and reporting with a focus on developing intercultural competence, and linking adaptive management strategies and strategic planning with Monitoring, Evaluation, and Learning.
Effective Fall Semester 2024

REL 456  Indigenous Environmental Stewardship, Ontologies, and Governance
On Demand. 3(3-0)
Intergenerational survey of Indigenous nations’ and citizens’ relationships with their local environments, with a specific focus on their respective worldviews, understandings of obligations to other-than-humans (e.g., plants and animals), and approaches towards stewardship (of waterways and lands). Focusing largely on Potawatomi, Ojibwe, and Ottawa ecological knowledge, stories, teachings, spiritualities, and approaches for environmental governance.
Effective Fall Semester 2024

REL 457  Indigenous Research Methodologies and Ethics
On Demand. 3(3-0)
Exploring a variety of research methodologies from specific Native communities around the world, this course presents core concepts in critical Indigenous studies and demonstrates how to implement ethical practices into any research design or collaborative partnership model, particularly in nonprofit settings.
Effective Fall Semester 2024
DEPARTMENT OF TEACHER EDUCATION

TE 438 Teaching High School Psychology
Fall of every year. 3(3-0) P: PSY 101 and PSY 235 and PSY 238 R: Not open to freshmen or sophomores and open to students in the Secondary Teacher Certification Program (Admitted). Not open to students with credit in TE 409.

Examining teaching as enabling diverse learners to create understanding, meaning, and purpose by engagement with the high school psychology curriculum. Review curricular frameworks and debates within the field. Methods for lesson and unit planning. Adapting the psychology curriculum to learner diversity.

Effective Fall Semester 2024
PART III – COURSE CHANGES

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

ACC 841  The Role of Accounting in Strategy Implementation  Spring of every year. 1 to 3 credits. P: (MBA 812 or ACC 341) and (MGT 409 or (MBA 850 or concurrently)) R: Open to master's students in the Accounting Major or approval of department. Strategic management control systems and accounting data supporting the design, implementation, monitoring, and continuous assessment of business strategies. Emerging risks and opportunities are also evaluated. Case-based exploration of the role of accounting in the development and implementation of corporate sustainability strategies. Effective Spring Semester 2025

DEPARTMENT OF ART, ART HISTORY, AND DESIGN

STA 371  Art, Education and Society  Spring of every year. 3(3-0) P: {HA 101 and HA 102} and Completion of Tier I Writing Requirement Visual theory, learning theory, and social theory in historical and cultural contexts. Fieldwork and research-based written assignments. DELETE COURSE Effective Fall Semester 2024

STA 481  Art Experiences with Children and Youth I (W)  Fall of every year. 5(1-8) P: (STA 371) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Art and Art History. Art teaching in the Saturday Art Program. Emphasis on elementary experiences. Planning and writing art curriculum. DELETE COURSE Effective Fall Semester 2024

STA 482  Art Experiences with Children and Youth II (W)  Spring of every year. 5(1-8) P: (STA 371) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Art and Art History. Art teaching in the Saturday Art Program. Emphasis on secondary experiences. Planning and writing art curriculum. DELETE COURSE Effective Fall Semester 2024

ELI BROAD COLLEGE OF BUSINESS

ESHP 170  Startup: Business Model Development  Business Model Design and Prototyping  Fall of every year. Spring of every year. Summer of every year. Fall of every year. Spring of every year. 3(3-0) Moving new concepts from idea to prototype in support of developing market value. SA: BUS 170 Effective Spring Semester 2025

ESHP 190  The Art of Starting  Introduction to Entrepreneurship  Spring of every year. Fall of every year. Spring of every year. 3(3-0) Aspects of the entrepreneurial experience. The entrepreneurial mindset and the venture creation process. Foundation for getting a venture started, and understanding of what it takes to be an entrepreneur. SA: BUS 190 Effective Spring Semester 2025
PART III – COURSE CHANGES

ESHP 230  The Entrepreneurial Mindset

Summer of every year. Fall of every year. Spring of every year. 3(2-0) P: ESHP 190
Components of entrepreneurship mindset. Steps in venture creation and idea generation.
Methods for opportunity analysis and voice of consumer.
SA: BUS 230, MKT 230
Effective Fall Semester 2024

ESHP 231  Venture Launch

Fall of every year. Summer of every year. 3(2-0) P: ESHP 230 or approval of department
Creating a minimum viable product. Market testing. Building a basic business model.
Developing and executing a launch plan.
Request the use of ET-Extension to postpone grading.
The work for the course must be completed and the final grade reported within 1 semester
after the end of the semester of enrollment.
SA: MKT 231, BUS 231
DELETE COURSE
Effective Fall Semester 2024

ESHP 480  Entrepreneurship Capstone Experience  Innovation in Action

Fall of every year. Spring of every year. 3(3-0) P: ESHP 190 or MGT 352 or CAS 114 or approval
of department P: ESHP 190 or CAS 114 or approval of department R: Open to students in the
Entrepreneurship and Innovation Minor.
Entrepreneurship and business development projects. Defining marketing intangibles. Defining
scope of work. Engagement management. Preparing deliverables for entrepreneurial firms.
Working with entrepreneurs to solve real problems ranging from initial visioning and planning to
grow to size. Entrepreneurship and innovation development projects. Defining scope of work
and preparing deliverables for entrepreneurial and innovation initiatives. Working with
innovators to solve real world problems. Application required.
SA: MSC 480, MKT 480 SA: MKT 480, MSC 480
Effective Spring Semester 2025

DEPARTMENT OF COUNSELING, EDUCATIONAL PSYCHOLOGY AND SPECIAL EDUCATION

CEP 349  Behavior Management in Special Education

Spring of every year. 3(3-1) P: CEP 240 P: CEP 240 and CEP 339 and CEP 351 R: Open to
undergraduate students in the Special Education-Learning Disabilities Major.
Management practices for behavior problems and disorders. Applied behavior analysis,
social skills acquisition through cooperative learning and cooperative discipline. Focus on
problem-solving and peer collaboration.
SA: CEP 449
Effective Fall Semester 2024

CEP 405  Internship in Teaching Special Education

Fall of every year. Spring of every year. 6(2-24) A student may earn a maximum of 12 credits in all
enrollments for this course. P: CEP 351 and CEP 301 and CEP 339 and CEP 349 R: Open to
undergraduate students in the Special Education-Learning Disabilities Major. R: Open to
undergraduate students in the Special Education-Learning Disabilities Major. C: CEP 401
concurrently or CEP 402 concurrently or CEP 403 concurrently
Internship in heterogeneous classrooms. Increased emphasis on independent teaching.
Teaching students with learning disabilities in classroom communities that ensure
equitable access to important knowledge and skills. Assessing academic and social
outcomes.
Request the use of the Pass-No Grade (P-N) system.
SA: CEP 502A
Effective Fall Semester 2024
**DEPARTMENT OF KINESIOLOGY**

**KIN 833**  
Lower Body Therapeutic Interventions: Therapeutic Interventions I  
Fall of every year. 3(2-2) P: KIN 800 and KIN 801 and KIN 802  
R: Open to students in the Athletic Training Major.  
- Development, implementation, and evaluation of treatment plans.  
- Therapeutic modalities and rehabilitation interventions for treating lower body injuries and general health conditions.  
- Evidence-based approaches to therapeutic interventions.  
Effective Spring Semester 2025

**KIN 837**  
Upper Body Therapeutic Interventions: Therapeutic Interventions II  
Spring of every year. 3(2-2) P: KIN 832 and KIN 833 and KIN 834  
R: Open to students in the Athletic Training Major.  
- Evidence-based approach to development, implementation, and evaluation.  
- Treatment plans using therapeutic modalities and rehabilitation interventions in the treatment of upper body injuries and general medical conditions.  
Effective Spring Semester 2025

**DEPARTMENT OF MANAGEMENT**

**MGT 352**  
Entrepreneurship: New Venture Process  
Spring of every year. Fall of every year. 3(3-0) P: ACC 202 or ACC 230  
P: (ACC 202 or ACC 230) and ESHP 190  
R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Retail Management Minor and not open to students in the School of Hospitality Business.  
- Becoming an entrepreneur. Developing successful business ideas. Moving from an idea to an entrepreneurial firm.  
- Managing and growing an entrepreneurial firm.  
Effective Fall Semester 2024

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ME 410**  
Heat Transfer  
Fall of every year. Spring of every year. 3(3-0) P: (ME 332 or CE 321 or CHE 311) and ME 391  
P: {{ME 332 or CE 321 or CHE 311} or (ME 333 and ME 333L)} and ME 391  
R: Open to juniors or seniors in the Mechanical Engineering Major.  
Effective Fall Semester 2024

**DEPARTMENT OF MEDIA AND INFORMATION**

**UX 800**  
User Research and Design  
Fall of every year. Spring of every year. 3(3-0) P: Open to master's students in the Department of Media and Information. Approval of department.  
R: Open to master's students in the User Experience Major.  
- History and overview of user research and user experience as a profession. Methods for understanding the needs and experiences of potential users of new technologies, and translating those into realistic design ideas, suggestions, and requirements that can serve as a basis for the creation of new technologies. Low-fidelity prototyping, gathering initial user feedback, and iterating on design ideas.  
Effective Fall Semester 2024
UX 802  Current Topics in UX  
- On Demand. 3(3-0)  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Cultural, technological, and design evolution of UX/UI. Critical examination of empirical research concerning social impacts of UX/UI. Focus on special issues and considerations related to new user interface modalities and application areas.  
- Effective Fall Semester 2024

UX 805  Quantitative Analysis and Insights for UX  
- Fall of every year. 3(3-0)  P: UX 800 or concurrently  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Appropriate statistical models for UX research questions. Bivariate and multivariate techniques including various types of regression models to investigate and answer research questions in the field UX and communicate these quantitative results to both technical and nontechnical audiences. Data cleaning and manipulation.  
- Effective Fall Semester 2024

UX 810  Social Science for Design  
- Fall of every year. 3(3-0)  P: UX 800 or concurrently  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Social science theories and concepts important for designing systems and user interfaces that people will be able to use efficiently, effectively and enjoyably.  
- Effective Fall Semester 2024

UX 815  Programming Fundamentals for UX  
- Spring of every year. 3(3-0)  P: UX 800 or concurrently  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Fundamentals of programming in a team environment. Basic foundations in how to write computer programs, work with others to program computers, and move beyond simple programs to large-scale, professional software development.  
- Effective Fall Semester 2024

UX 820  Usability Evaluation  
- Spring of every year. 3(3-0)  P: UX 800 or concurrently  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Plan, conduct, analyze, and report on usability evaluations of technology interfaces, products and applications, using methods that incorporate human participants and methods that do not.  
- Effective Fall Semester 2024

UX 825  Visual Design Fundamentals  
- Summer of every year. 3(3-0)  P: UX 800 or concurrently  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Visual design software and processes, including aesthetics of typography, color, and iconography for user interfaces.  
- Effective Summer Semester 2024

UX 830  Design for Interactivity  
- Summer of every year. 3(3-0)  P: UX 800 or concurrently  R: Open to master's students in the Department of Media and Information. Approval of department. R: Open to master's students in the User Experience Major.  
- Process of designing and implementing interactive computing systems.  
- Effective Fall Semester 2024
PART III – COURSE CHANGES

UX 835  Accessibility and Design
Summer of every year. 3(3-0) P: UX 800 or concurrently. R: Open to master’s students in the Department of Media and Information. Approval of department. R: Open to master’s students in the User Experience Major.
Designing, developing, and evaluating inclusive technologies for all individuals with different human abilities and disabilities.
Effective Fall Semester 2024

UX 840  UX and Society
Summer of every year. 3(3-0) P: UX 800 or concurrently. R: Open to master’s students in the Department of Media and Information. Approval of department. R: Open to master’s students in the User Experience Major.
Develop core understanding and analysis techniques of dominant theories that situate technology in society across fields of Human Computer Interaction, Science and Technology Studies and Computer Supported Cooperative Work.
Effective Fall Semester 2024

UX 898  UX Capstone
Fall of every year. Spring of every year. Summer of every year. 3(3-0). R: Open to master’s students in the Department of Media and Information. Approval of department. R: Open to master’s students in the User Experience Major.
Conduct team-based capstone project from initial idea through high-fidelity prototype. Navigating project management, team-building, and budgeting in the context of UX design and research. Portfolio development.
Effective Fall Semester 2024

COLLEGE OF MUSIC

MUS 163  Class Instruction in Clarinet Woodwind Methods
Fall of every year. Spring of every year. 1(0-2) 2(1-2) P: MUS 177 R: Open to undergraduate students in the Music Education Major.
Techniques for playing and teaching clarinet. Study of woodwind instruments; attention to characteristic tone production, playing techniques, and effective beginning wind pedagogy/instrumental ensemble instruction.
Effective Spring Semester 2025

MUS 165  Class Instruction in High Brass Instruments Brass Methods
Fall of every year. Fall of every year. Spring of every year. 1(0-2) 2(1-2) P: MUS 177 R: Open to undergraduate students in the Music Education Major.
Techniques for playing and teaching trumpet and horn. Study of brass instruments; attention to characteristic tone production, playing techniques, and effective beginning wind pedagogy/instrumental ensemble instruction.
Effective Spring Semester 2025

MUS 166  Class Instruction in Low Brass Instruments Survey of Wind Instruments
Fall of every year. Spring of every year. Fall of every year. 1(0-2) 2(1-2) P: MUS 177 R: Open to undergraduate students in the Music Education Major.
Techniques for playing and teaching trombone, euphonium, and tuba. Overview of wind instruments; introduction to characteristic tone production, playing techniques, and effective beginning wind pedagogy.
Effective Spring Semester 2025
DEPARTMENT OF PUBLIC HEALTH

PH 837  Poverty and Public Health
Fall of even years. Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: PH 801. RB: Academic or professional background in public health or public health related discipline. Undergraduate level math or statistics course work. RB: Academic or professional background in public health and/or public health related discipline R: Open to students in the Public Health Major or approval of college.

Concepts of health and poverty and their interrelatedness from a global and public health perspective. Roles of international agencies, national policy, gender, socioeconomic status, race, ethnicity, culture, access to resources, and conflict. Role of public health programs in the achievement and maintenance of healthy populations. Struggle to eliminate poverty. In-depth examination of intersection of poverty and public health from a U.S. and global perspective. Role of social inequities, structural factors and forms of oppression that generate poverty. Possible policy, advocacy, and other public health solutions to help eliminate poverty.

SA: HM 837
Effective Summer Semester 2024