MINOR IN SOCIAL ENTREPRENEURSHIP

Requirements

- TECH 305 OR ENVS 305X - Green Technologies (3)

COLLEGE OF EDUCATION

DEPARTMENT OF SPECIAL AND EARLY EDUCATION

NEW COURSE

CIP Code: 13.1099

SESE 410. POSITIVE BEHAVIOR SUPPORTS FOR EQUALITY, ACCESS, AND STUDENT DEVELOPMENT (3). Survey of principles of effective behavior management to promote appropriate student academic and social behavior and prevent and decrease challenging behavior in school settings. Will enable middle and secondary pre-service educators to design classroom environments using Response to Intervention (RtI) strategies, Positive Behavior Intervention and Supports (PBIS), socio-emotional learning standards, and culturally sensitive pedagogy. Course meets social-emotional learning (SEL) and Illinois Professional Teaching Standards (IPTS) for classroom management and socio-emotional learning. PRQ: Junior standing or consent of Department.

OTHER CATALOG CHANGE

COURSES

497. INDEPENDENT STUDY... ...

SPECIAL EDUCATION (SESE)
410. POSITIVE BEHAVIOR SUPPORTS FOR EQUALITY, ACCESS, AND STUDENT DEVELOPMENT (3). Survey of principles of effective behavior management to promote appropriate student academic and social behavior and prevent and decrease challenging behavior in school settings. Enables middle and secondary pre-service educators to design classroom environments using Response to Intervention (RtI) strategies, Positive Behavior Intervention and Supports (PBIS), socio-emotional learning standards, and culturally sensitive pedagogy. Meets social-emotional learning (SEL) and Illinois Professional Teaching Standards (IPTS) for classroom management and socio-emotional learning. PRQ: Junior standing or consent of department.

COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY

Department of Electrical Engineering

Course Revision: 2012-13 Undergraduate Catalog

210. ENGINEERING CIRCUIT ANALYSIS (3). Properties of … … per week. PRQ: MATH 230 and PHYS 273, both with a grade of C or better.

Course Revision: 2012-13 Undergraduate Catalog

429. BIOMEDICAL ENGINEERING DESIGN PROJECT (3). Students create … …. Team project required. PRQ: Completion of all ELE 300-level courses required by the major, ELE 420 and ELE 425 and ELE 491, and either ELE 420 and ELE 425, and completion of all ELE 300-level courses required by the major.

Department of Industrial and Systems Engineering

Course Revision: 2012-13 Undergraduate Catalog

480. SIMULATION MODELING AND ANALYSIS (3). Design and analysis … … generated output. PRQ: MATH 211 and UBUS 223, or ISYE 334 and ISYE 335, or STAT 350, or UBUS 223, and CSCI 240, and ISYE 371; or consent of department.

Other Catalog Change: 2012-13 Undergraduate Catalog

Emphasis 1. Health Systems Engineering

↓

Emphasis 2. Manufacturing Systems

Requirements in Department (4145)

Same as required for major except ISYE 495 is not required.
## SECTION A – Recorded for inclusion in the 2014-15 Undergraduate Catalog

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYE 220</td>
<td>Engineering Economy</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 250</td>
<td>Introduction to Lean Systems Engineering</td>
<td>(2)</td>
</tr>
<tr>
<td>ISYE 310</td>
<td>Work Measurement and Work Design</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 335</td>
<td>Statistics for Engineering</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 350</td>
<td>Principles of Manufacturing Processes</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 370</td>
<td>Operations Research: Deterministic Models</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 371</td>
<td>Operations Research: Probabilistic Models</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 410</td>
<td>Human Factors Engineering</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 430</td>
<td>Quality Control</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 435</td>
<td>Experimental Design for Engineering</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 440</td>
<td>Production Planning and Control</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 450</td>
<td>Lean Manufacturing Systems</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 460</td>
<td>Facilities Planning and Design</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 480</td>
<td>Simulation Modeling and Analysis</td>
<td>(3)</td>
</tr>
<tr>
<td>ISYE 496</td>
<td>Manufacturing Systems Design Project</td>
<td>(4)</td>
</tr>
</tbody>
</table>

### Requirements outside Department (48-52)

Technical Courses (1915)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYE 435</td>
<td>Experimental Design for Engineering</td>
<td>3</td>
</tr>
<tr>
<td>OR ISYE 431</td>
<td>Reliability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ISYE 439</td>
<td>Six Sigma Performance Excellence and Modern Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>OR MEE 422</td>
<td>Design of Robot Manipulators</td>
<td>3</td>
</tr>
<tr>
<td>OR MEE 425</td>
<td>Design of Mobile Robots</td>
<td>3</td>
</tr>
<tr>
<td>ISYE 453</td>
<td>Integrated Product and Process Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYE 455</td>
<td>Manufacturing Metrology</td>
<td>3</td>
</tr>
<tr>
<td>OR TECH 365</td>
<td>Metrology</td>
<td>3</td>
</tr>
<tr>
<td>ISYE 496</td>
<td>Manufacturing Systems Design Project</td>
<td>4</td>
</tr>
<tr>
<td>ISYE 435</td>
<td>Experimental Design for Engineering</td>
<td>3</td>
</tr>
<tr>
<td>OR ISYE 431</td>
<td>Reliability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MEE 430</td>
<td>Computer-Aided Design and Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>OR TECH 311</td>
<td>Computer-Aided Modeling</td>
<td>3</td>
</tr>
<tr>
<td>OR TECH 342</td>
<td>Manufacturing Component Design</td>
<td>3</td>
</tr>
<tr>
<td>OR TECH 414</td>
<td>Computer-Aided Machine Design</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Hours for an Emphasis in Manufacturing Systems Engineering: 108

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Department of Technology

Course Revision: 2012-13 Undergraduate Catalog
211. COMPUTER-AIDED DESIGN (3). Basic and advanced intermediate computer-aided drafting in three dimensions and an introduction to solid modeling through the use of a three dimensional solid modeling software package. Students will learn three-view drawings and dimensioning, as well as line types and orthographic projections. Creating detail and assembly representations. Global and working coordinate systems. how to apply the parametric features of a solid model to provide an accurate graphical representation of a part, and to effectively capture the design intent. Students will also learn how to create detailed drawings, orthographic projections and assembly representations.

Course Revision: 2012-13 Undergraduate Catalog

305. GREEN TECHNOLOGIES (3). Crosslisted as ENVS 305X. Introduction to … … green industries in the region.

Course Revision 2012-13 Undergraduate Catalog

311. COMPUTER-AIDED MODELING (3). Students will learn intermediate and advanced solid modeling techniques and complex shape modeling including wireframe, surface, and rapid prototyping, surface creation and manipulation, spline and curve generation, and model evaluation. This course will examine assemblies and systems of drawing. Use the parametric feature of a solid model to provide an accurate graphical representation of a part and to effectively capture the design intent. PRQ: Must have a C or better in TECH 211.

Course Revision 2012-13 Undergraduate Catalog

427. TESTING METHODS, PROCEDURES, AND SELECTION OF INDUSTRIAL SUSTAINABLE PLASTICS (3). Brief study of some plastics (polymers) with emphasis on energy-efficient, renewable, and recycled including thermoplastics, thermosets, and composite materials in addition to study of specific properties of plastics material, standard testing methods/procedures, and product application. PRQ: ENGL 308, TECH 265 or TECH 344, and CHEM 110 or CHEM 210.

Other Catalog Change Undergraduate Catalog

Major in Technology
↓
Emphasis 5. Aviation Management Technology
↓
Technology Electives
Two of the following (6):
TECH 305/ENVS 305X – Green Technologies (3)
↓
Emphasis 6. Energy and Environmental Technology
SECTION A – Recorded for inclusion in the 2014-15 Undergraduate Catalog

Requirements in Department (55-56)
↓
TECH 305/ENVS 305X – Green Technologies (3)

COLLEGE OF HEALTH AND HUMAN SCIENCES

School of Nursing and Health Studies

Other Catalog Change

Major in Public Health
↓
Emphasis 3. Environment and Health
↓
Requirements outside of School
↓
Course work from the following. Cannot select … or emphasis requirements (6-8)
↓
ENVS 305X/TECH 305 – Green Technologies (3)

COLLEGE OF LIBERAL ARTS AND SCIENCES

Environmental Studies

Course Revisions

ENVS 305X. Crosslisted as TECH 305. GREEN TECHNOLOGIES (3). Introduction to environmentally friendly engineering and technological advances which are more environmentally friendly and new technologies that utilize green principles and green transportation. Course includes topics in new areas of green manufacturing and materials used today and planned for the future, including the operation and manufacture of solar cells and the production of wind, thermal, and hydroelectric power. Topics will vary depending upon new trends in industry. Several on-site visits to green industries in the region. PRQ: MATH 155 with a C or better; and CHEM 110.

Other Catalog Change

Major in Environmental Studies
↓
Requirements in Environmental Studies
↓
SECTION A – Recorded for inclusion in the 2014-15 Undergraduate Catalog

Three semester hours from the following (3)

\[ \text{ENVS 305X} - \text{Green Technologies (3)} \]

The Center for Non-Governmental Organization Leadership and Development

Other Catalog Change

Major in Community Leadership and Civic Engagement

Emphasis 4. Environmental

Four of the following, from at least three different departments (12)

\[ \text{ENVS 305X} - \text{Green Technologies (3)} \]

COLLEGE OF VISUAL AND PERFORMING ARTS

School of Art

Course Revision

ARTH 310 Studies in Ancient and Middle Eastern Art (3). Rotating topics include Egypt, Mesopotamia, Aegean Art, Archaic and Classical Art, Hellenistic Art, Etruscan and Early Roman Art, Roman Imperial Art, Islamic Art. May be repeated. Multiple enrollments are allowed in the same semester.

A. Egypt
B. Mesopotamia
C. Aegean Art
D. Archaic and Classical Art
E. Hellenistic Art
F. Etruscan and Early Roman Art
G. Roman Imperial Art
H. Islamic Art
I. Thematic Subjects

History, theory, and criticism of various aspects of ancient and Middle Eastern art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.
SECTION A – Recorded for inclusion in the 2014-15 Undergraduate Catalog

ARTH 320 Studies in Medieval Art (3). Rotating topics include Early Christian and Early Byzantine Art: 330-843, Middle and Late Byzantine Art: ca. 843-1543, Early Medieval Art: ca. 500-1000, Romanesque and Gothic Art. May be repeated. Multiple enrollments are allowed in the same semester.
A. Early Christian and Early Byzantine Art: 330-843
B. Middle and Late Byzantine Art: ca. 843-1543
C. Early Medieval Art: ca. 500-1000
D. Romanesque and Gothic Art: ca. 1000-1400
E. Thematic Subjects

History, theory, and criticism of various aspects of medieval art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Course Revision 2012-13 Undergraduate Catalog

ARTH 330 Studies in Early Modern Art (3). Rotating topics include Early Italian Renaissance Art, Early Northern Renaissance Art, 16th Century Italian Art, 16th Century Northern European Art, 17th and 18th Century European Art. May be repeated. Multiple enrollments are allowed in the same semester.
A. Early Italian Renaissance Art
B. Early Northern Renaissance Art
C. 16th Century Italian Art
D. 16th Century Northern European Art
E. 17th and 18th Century European Art
F. Thematic Subjects

History, theory, and criticism of various aspects of early modern art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Course Revision 2012-13 Undergraduate Catalog

ARTH 340 Studies in Modern and American Art (3). Rotating topics include American Art, 19th Century Art, 20th Century Art. May be repeated. Multiple enrollments are allowed in the same semester.
A. American Art before 1945
B. Modernism in European and American Art
C. Thematic Subjects

History, theory, and criticism of various aspects of modern and American art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Course Revision 2012-13 Undergraduate Catalog

ARTH 350 Studies in Contemporary Art (3). Rotating topics include various aspects of contemporary art from 1970 to the present. May be repeated. Multiple enrollments are allowed in the same semester.
SECTION A – Recorded for inclusion in the 2014-15 Undergraduate Catalog

A. 1960-1980
B. 1980-present
C. 1960-present
D. Thematic Subjects

History, theory, and criticism of various aspects of contemporary art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Course Revision 2012-13 Undergraduate Catalog

ARTH 360 Studies in Design (3). Rotating topics include 20th Century Architecture, Visual Communication, Design and Decorative Art. May be repeated. Multiple enrollments are allowed in the same semester.
A. Modern and Postmodern Architecture
B. From Print Culture to New Media
C. From Craft to Industry
D. Sustainability
E. Thematic Subjects

History, theory, and criticism of various aspects of design from the 19th century to the present. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Course Revision 2012-13 Undergraduate Catalog

ARTH 370 Studies in Asian Art (3). Rotating topics include South and Southeast Asian Art, Southeast Asian Art, Chinese Art, Japanese Art, Islamic Art. May be repeated. Multiple enrollments are allowed in the same semester.
A. Chinese Art
B. Japanese Art
C. South and Southeast Asian Art
D. Southeast Asian Art
E. Islamic Art
F. Buddhist Art
G. Thematic Subjects

History, theory, and criticism of various aspects of Asian art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Rotating topics include Art of Africa, Oceania, and the Americas, Pre-Columbian Art, Latin American Art. May be repeated. Multiple enrollments are allowed in the same semester.

A. Art of Africa, Oceania, and the Americas
B. African Art
C. Pre-Columbian Art
D. Latin American Art
E. Thematic Subjects

History, theory, and criticism of various aspects of African, Oceanian, Native American, Pre-Columbian, and Latin-American art. May be repeated with different subjects to a maximum of 12 semester hours. Multiple enrollments with different subjects are allowed in the same semester.

Course Revision

ARTS 402. ADVANCED 2-D FIGURE STUDY (4). 2-D studio work .... 8 semester hours. PRQ: ARTS 321 or ARTS 323, and successful completion of portfolio review in any area in the School of Art; ARTS 200 or consent of school.

Other Catalog Change

Major in Art History (B.A.)

Total Hours for a Major in Art History: 66-81

Recommendation

Students who plan to enter graduate school should select French, German, or Italian, or other appropriate foreign language, in consultation with an art history faculty adviser, to satisfy the B.A. foreign language requirement.

Degree with Departmental Honors

Majors in art history who have and maintain a minimum 3.40 GPA in all of their art history course work are eligible to participate in the honors program in art history. Students interested in obtaining the B.A. degree with honors should consult with the undergraduate coordinator or chair of the art history division head as soon as possible after declaring their major.

Requirements for the baccalaureate degree in art history with honors include completion of the foreign language requirement for the B.A. degree in either French or German with a GPA of 3.00, and completion of a senior thesis. The foreign language must be chosen in consultation with an art history faculty adviser.
The senior thesis must be approved by a committee consisting of a project adviser and second reader, both of whom must be Art History faculty members. To complete the senior thesis, students must complete: ARTH 486 – Art Historical Methodology (3) followed by ARTH 499 – Senior Thesis (3).

School of Music

Course Deletion 2012-13 Undergraduate catalog

MUSP 464. Workshop in Movement and Performing Awareness

Course Revisions 2012-13 Undergraduate catalog

MUTC 101. Music Theory I (2). Introductory study of music theory from fundamentals to diatonic harmony; introduction to part-writing and analysis. Open only to music majors. PRQ: Consent of school. CRQ: MUTC 103.

MUTC 102. Music Theory II (2). Continuation of MUTC 101. Study of diatonic harmony, with emphasis on part-writing and analysis of tonal music. Open only to music majors. PRQ: Grade of C or better in MUTC 101.


MUTC 201. Music Theory III (2). Continuation of MUTC 102. Study of chromatic harmony, with emphasis on part-writing and analysis of tonal music. Open only to music majors. PRQ: Grade of C or better in MUTC 102 and MUTC 104. CRQ: MUTC 203.

MUTC 202. Music Theory IV (2). Continuation of MUTC 201. Application of prior studies to analysis of formal design in tonal music. Open only to music majors. PRQ: Grade of C or better in MUTC 201.


MUTC 300. Composition: Primary (4). Individualized and/or group study and writing of small and large musical forms in composing for acoustic media. May be repeated. PRQ: Grade of C or better in MUTC 202, grade of C or better in either MUTC 204 or MUSP 204, and consent of school.
MUTC 301. Music Theory V (2). Continuation of MUTC 202. Study of 20th century compositional and analytical techniques, approached from a historical perspective. Development of skills to analyze and understand representative works. PRQ: Grade of C or better in MUTC 202, and grade of C or better in MUTC 204 or MUSP 204.

MUTC 398. Selected Studies in Music: Music Theory (1-4). Independent or small group study of selected topics of interest or need in music other than music composition. May be repeated to a total of 6 semester hours. S/U grading. PRQ: Consent of school.

School of Theatre & Dance

Course Deletion 2012-13 Undergraduate catalog

TH-D 464X. Workshop in Movement and Performing Awareness

Course Revisions 2012-13 Undergraduate catalog

THEA 456. Rigging for Performing Arts (3). Advanced study of overhead lifting equipment and techniques commonly used in theatres, arenas, and other performance venues. May be repeated to a maximum of 6 hours. PRQ: THEA 249 and THEA 355, or consent of school.

THEA 457. Automation and Stage Machinery (3). Advanced study of mechanical devices used to create motion in theatrical productions. May be repeated to a maximum of 6 hours. PRQ: THEA 249 and THEA 355, or consent of school.

THEA 458. Structural Design for the Stage (3). Advanced study of strengths and weaknesses of material and joining methods used to construct scenery. May be repeated to a maximum of 6 hours. PRQ: THEA 249 and THEA 355, or consent of school.

Other Catalog Change Undergraduate Catalog

Major of Theatre Arts (B.F.A.)

- Emphasis 3. Dance Performance
  - Course work from the following (17)
    - TH-D 409 – Pas de Deux (2)
    - TH-D 464X – Workshop in Movement and Performing Awareness (3)
    - TH-D 467 – Dance Notation (3)