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**EP.22.068**
February 7, 2022

**UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN SENATE**
COMMITTEE ON EDUCATIONAL POLICY
(Final; Information)

EP.22.068 Report of Administrative Approvals through January 24, 2022

Senate committees are authorized to act for and in the name of the Senate on minor matters. Below is a listing of the administrative approvals the Senate Committee on Educational Policy approved at its meeting on January 24, 2022. Additional information for each approval is attached.

**A. Graduate Programs**

1) **MS in Biomedical Image Computing** – in the list of Approved Elective Courses, add a note that advisor approval is required for elective courses not specifically listed and add three courses to the list: BIOE 504, Analytical Methods in Bioeng (4 hours); ECE 513, Vector Space Signal Processing (4 hours); ECE 566, Computational Inference and Learning (4 hours).

**B. Undergraduate Programs**

1) **BS in Advertising** – in the list of required major courses, remove ADV 150, Introduction to Advertising (3 hours) and ADV 483, Audience Analysis (3 hours) and add a choice between either ADV 492, Tech and Advertising Campaigns (3 hours) or ADV 498, The Sandage Project (3 hours). Increase the number of electives in the major from 12 to 18 hours, offsetting this increase by reducing the minimum hours outside the College of Media from 72 to 66. Add a footnote to specify 40 upper-division hours minimum are required in the total hours for the program. There is no change to the total hours required for the degree.
2) **Minor in Materials Science & Engineering** – in the list of advanced courses from which students select 9 hours, remove MSE 454, Mechanics of Polymers (3 hours), as an option. This course has been deactivated effective Fall, 2021. There is not a change to the total hours required for the minor.
3) **Minor in Informatics** – to formalize via the Program of Study listing a long-standing agreement regarding restricting Information Systems majors from using BADM courses as upper-level electives, clarify with three distinct listings: 1) Course requirements for students who are NOT Computer Science, Computer Science + X, Electrical and Computer Engineering, or Information Systems majors or Computer science minors (19 total hours); 2) Course requirements for students who are Computer Science, Computer Science + X, or Electrical and Computer Engineering or Computer Science minors (18-19 total hours); and 3) Course requirements for students who are Information Systems majors (19 total hours). In list 1, replace "3 upper-level courses from an Informatics approved list of courses from a variety of disciplines, all with sufficient informatics or computational content (9-12 hours)" with "3 upper-level courses from an Informatics-approved list of courses (9 hours). List 3 is added, to spell out the requirements for Information Systems majors to be Info 102, Little Bits to Big Ideas (4 hours); INFO 202, Social Aspects of Info Tech (3 hours); Select one of CS 105, Intro Computing: Non-Tech (3 hours), CS 101, Intro Computing: Engrg & Sci (3 hours), CS 124, Introduction to Computer Science I (3 hours), STAT 107, Data Science Discovery (3 hours), ECE 120, Introduction to Computing (4 hours) and ECE 220, Computer Systems &

Programming (4 hours); 3 upper-level, non-BADM courses from an Informatics-approved list of courses (9 hours). There is no change to the total hours required for the minor.

4) **Minor in Study of the Islamic World** – remove REL 213, Intro to Islam – ACP (4 hours) from the list of courses from which students choose 1 course/3 hours. There is no change in total hours required for the minor.
5) **Minor in Sub-Saharan African Languages** – remove LING 420, Intro to African Languages (3 hours) from the list of 300- or 400-level African Linguistics courses from which students are to choose 3 hours. There is no change to the total hours required for the minor.
6) **Minor in Hindi Studies** – update the list of Indian Linguistics/sociolinguistics courses from which students are to select 6 hours to accurately reflect the new course number for Linguistics in Globalization (3 hours), which was renumbered from LING 111 to LING 222. There is no change in the total hours required for the minor.
7) **Minor in Arabic Studies** -- remove REL 213, Intro to Islam – ACP (4 hours) from the list of Interdisciplinary courses related to the Arab World from which students are to select 6 hours. There is no change in total hours required for the minor.
8) **Minor in Turkish Studies** – 1) add in parenthesis on the Language Requirement (6 hours) that students who test out of the advanced language requirement (405-406) must take six additional hours of advanced (300- or 400-level) coursework from the list of Turkey/Ottoman Empire electives; 2) in the list of Additional Courses related to Turkey/Ottoman Empire of which students are required to take 9 hours, remove REL 213, Intro to Islam – ACP (4 hours). There is no change to the total hours required for the minor.
9) **Minor in South Asian Studies** – 1) add in parenthesis on to the list of courses on South Asian history, language, literature, culture, and society that other area-relevant courses may be substituted with advisor approval, provide examples of such courses, and note that independent study courses require instructor approval and no more than 2 independent study courses can be used to meet the requirements; 2) in this same list from which students are required to take 12 hours, remove REL 213, Intro to Islam – ACP (4 hours). There is no change to the total hours required for the minor.
10) **Electives List for the Minor in Game Studies and Design** – in the list of electives from the College of Applied Health Sciences, add CHLH 441, Health Behavior and Technology (3 hours); KIN 346, Case Study: Endless Summer (3 hours); KIN 369, Coaching Strategies (3 hours); KIN 442, Body, Culture & Society (3 hours); KIN 474, Tech-Driven Health Intervention (3 hours). In the list of electives from the College of Fine & Applied Arts, remove Dance 400, Viewing Dance (1 hour). In the list of electives from The Grainger College of Engineering, clarify that the CS 498 Special Topics course is the "Game Development" section only. In the list of electives from the School of Information Sciences, add GSD 399, Advanced Individual Study (0-3 hours); GSD 405, Introduction to the Video Game Development Process (3 hours); GSD 409, Design & Programming of Narrative Games & Simulations (3 hours); INFO 416, Makerspace: Game Studies (3 hours); INFO 418, Makerspace: Escape Rooms (3 hours). Replace the listing of INFO 403, An Introduction to Top Down Video Game Design (3 hours) with its cross-list, GSD 403, Clarify that INFO 490 Special Topics is limited to the sections "Musical Informatics" and "Computer Music" (1 to 4 hours). Add in parenthesis clarification that IS 199, Undergraduate Open Seminar, is for section SHG only and this can be used for either a foundational required course OR an elective course but not both (1 to 5 hours). There is no change to the total hours required for the minor.
11) **BLA in Landscape Architecture** – 1) update the Humanities and the Arts and on Cultural Studies: Non-Western Cultures gen ed requirements listing to remove the parenthetical note "some courses in the Social/Cultural Factors in Design electives category will fulfill this"; 2) revise the listing for the Natural Sciences & Technology gen ed requirement to reflect the updated rubric for Earth's Physical Systems,

which changed from GEOG to GGIS 103 (3 hours); 3) revise the total range for gen ed courses to accurately reflect the listing above (31-33 hours); remove LA 345, Professional Internship (5 hours) and replace it with LA 346, Professional Practice (2 hours); 4) revise the list of Supporting Electives, from which students previously selected 12 hours, to call it "Focused Electives" of which students now choose 18 hours, adding a note that these electives are required of all BLA students to graduate and must be approved by the BLA advisor during an advising appointment; 5) replace HORT 301, Woody Landscape Plants (4 hours), which has been deactivated, with LA 390, Independent Study I, Woody Landscape Plants (4 hours). There is no change to the total hours required for the degree.

12) **BALAS in History of Art** – 1) For the 18-hour requirement of six 200-400 level courses in Art History from the School of Art & Design, change what was a footnote to a parenthetical note ("Though students must take a total of 6 courses, some may count toward the fulfillment of more than one area and period requirement. For instance, a course in 20$^{th}$ century African art could count as a class covering both Africa and the Middle East and material after 1700."; 2) Remove a footnote and add that footnote's contents in parenthesis following the History of Art – List of Approved Supplemental Humanities Courses ("Please note: this is not a complete list of approved courses as individual student interests may guide supplemental courses in any number of directions. To ensure students take appropriate courses, all supplemental Humanities hours must be approved by the BALAS advisor."; 3) from this list, remove HIST 472, Immigrant America (3 hours). There is no change to the total hours required for the degree.
13) **Concentration in Power, Safety & Environment in the BS in Nuclear, Plasma, and Radiological Engineering** – 1) add a note to clarify NPRE 432, Nuclear Engrg Materials Lab (2 hour), is the required course in the concentration; 2) clearly note that students are required to take 15 hours of Technical electives, adding language that these come from a departmentally-approved list and are categorized as the "NPRE Power Concentration Electives List" and the "Other Technical Electives" list, with at least 6 hours to be taken from the NPRE Power Concentration Electives List and the remaining hours from the Other Technical Electives list; 3) Add NPRE 413, Nuclear Separations and Fuel Reprocessing (2 or 3 hours) to the NPRE Power Concentration Electives List; 4) Clarify the Other Technical Electives list to note the courses are from NPRE or other departments in the subfields; and 5) Within the Other Technical Electives list, add a note that NPRE 199, Undergraduate Open Seminar (1 hour) may be repeated in separate terms to a maximum of 2 times. There is no change to the total hours required for the concentration or for the degree.
14) **Concentration in Plasma & Fusion Science & Engineering in the BS in Nuclear, Plasma, and Radiological Engineering** – 1) add a note to clarify there are 8 total hours of required courses for the concentration; 2) clearly note that students are required to take 9 hours of Technical Electives, removing the subtitle referring to these as "Common Engineering and Technical Electives" and adding clarifying language that these are from a departmentally-approved list of technical electives from NPRE or other departments in the subfields and that the student is to confer with their academic advisor on a chosen course set to ensure a strong program is achieved. There is no change to the total hours required for the concentration or for the degree.
15) **Concentration in Radiological, Medical & Instrumentation Applications in the BS in Nuclear, Plasma, and Radiological Engineering** – 1) add a note to clarify there are 5 total hours of required courses for the concentration; 2) clearly note that students are required to take 9 hours of Technical Electives, removing the subtitle referring to these as "Common Engineering and Technical Electives" and adding clarifying language that these are from a departmentally-approved list of technical electives from NPRE or other departments in the subfields and that the student is to confer with their academic advisor on a chosen course set to ensure a strong program is achieved; 3) remove ME 310, Fundamentals of Fluid Dynamics (4 hours); NPRE 421, Plasma and Fusion Science (3 hours); and BIOE 120, Introduction to

Bioengineering (1 hour) from the list of Technical Electives; 3) in this same list, add a parenthetical note that NPRE 199, Undergraduate Open Seminar (1 hour) may be repeated in separate terms to a maximum of 2 times. There is no change to the total hours required for the concentration or for the degree.

16) **BS in Natural Resources and Environmental Sciences** – in the list of Natural Sciences and Technology courses' second select from list, revise the listing for Earth's Physical Systems to reflect the updated rubric, so that it is GGIS 103 rather than GEOG 103 (4 hours). There is no change to the total hours required for the degree.
17) **Concentration in Environmental Economics and Policy in the BS in Agricultural and Consumer Economics** – in the list of courses from which students are to select one, update the listing for Introduction to Geographic Information Systems from GEOG 379 to GGIS 379 (4 hours) so it reflects the department's current rubric. There is no change to the total hours required for the minor.
18) **BS in Engineering Technology and Management for Agricultural Systems** – when the name of the major changed from "Technical Systems Management" to "Engineering Technology and Management for Agricultural Systems," the associated course rubric was also updated. As such, the following courses need to be updated as listed below:

    ETMA 311, Humanity in the Food Web (3 hours), replaces TSM 311
    ETMA 100, Technical Systems in Agr (3 hours), replaces TSM 100
    ETMA 339, Optimization in Engineering Technology and Management (3 hours), replaces TSM 339
    ETMA 421, Industrial and Agricultural Safety-Injury Prevention (3 hours), replaces TSM 421
    ETMA 422, Industrial and Agricultural Occupational Illness Prevention (3 hours), replaces TSM 422
    ETMA 430, Project Management (2 hours), replaces TSM 430
    ETMA 439, Capstone Experience (4 hours), replaces TSM 439
    "TSM Electives" is replaced by "ETMA Electives."

    There is no change to the total hours required for the degree.
19) **Concentration in Agricultural Production & Processing in the BS in Engineering Technology and Management for Agricultural Systems** -- when the name of the major changed from "Technical Systems Management" to "Engineering Technology and Management for Agricultural Systems," the associated course rubric was also updated. As such, the following courses need to be updated as listed below:

    ETMA 103, Agricultural Machinery and Technology (2 hours), replaces TSM 103
    ETMA 130, Basics of CAD (1 hour), replaces TSM 130
    ETMA 132, Basics of Project Management (1 hour), replaces TSM 132
    ETMA 232, Materials and Construction Sys (3 hours), replaces TSM 232
    ETMA 233, Metallurgy & Welding Process (3 hours), replaces TSM 233
    ETMA 234, Wiring, Motors and Control Sys (3 hours), replaces TSM 234
    ETMA 262, Off-Road Equipment Management (3 hours), replaces TSM 262
    ETMA 295, Undergrad Research or Thesis (1 to 4 hours), replaces TSM 295
    ETMA 352, Land and Water Mgt Systems (3 hours), replaces TSM 352
    ETMA 363, Fluid Power Systems (2 hours), replaces TSM 363
    ETMA 371, Residential Housing Design (3 hours), replaces TSM 371
    ETMA 372, Environ Control & HVAC Systems (3 hours), replaces TSM 372
    ETMA 381, Grain Drying & Storage Systems (3 hours), replaces TSM 381
    ETMA 396, UG Honors Research or Thesis (1 to 4 hours), replaces TSM 396
    ETMA 425, Managing Industrial and Agricultural Safety Risks (3 hours), replaces TSM 425
    ETMA 435, Elec Computer Ctrl Sys (3 hours), replaces TSM 435

ETMA 464, Engine and Tractor Power (3 hours), replaces TSM 464
ETMA 467, Precision Agric Technology (3 hours), replaces TSM 467
ETMA 486, Grain Bioprocessing Coproducts (3 hours), replaces TSM 486
ETMA 496, Independent Study (1 to 4 hours), replaces TSM 496
"TSM Electives" is replaced by "ETMA Electives."

There is no change to the total hours required for the concentration or for the degree.

20) **Concentration in Construction Management in the BS in Engineering Technology and Management for Agricultural Systems** – 1) in the list of courses students may select from to achieve 18 hours, replace ACE 435, Global Agribusiness Management (3 hours) with ACE 345, Finan Decision Indiv Sm Bus (3 hours); 2) When the name of the major changed from "Technical Systems Management" to "Engineering Technology and Management for Agricultural Systems," the associated course rubric was also updated. As such, the following courses need to be updated as listed below:

ETMA 130, Basics of CAD (1 hour), replaces TSM 130
ETMA 132, Basics of Project Management (1 hour), replaces TSM 132
ETMA 232, Materials and Construction Sys (3 hours), replaces TSM 232
ETMA 233, Metallurgy & Welding Process (3 hours), replaces TSM 233
ETMA 234, Wiring, Motors and Control Sys (3 hours), replaces TSM 234
ETMA 262, Off-Road Equipment Management (3 hours), replaces TSM 262
ETMA 295, Undergrad Research or Thesis (1 to 4 hours), replaces TSM 295
ETMA 352, Land and Water Mgt Systems (3 hours), replaces TSM 352
ETMA 363, Fluid Power Systems (2 hours), replaces TSM 363
ETMA 371, Residential Housing Design (3 hours), replaces TSM 371
ETMA 372, Environ Control & HVAC Systems (3 hours), replaces TSM 372
ETMA 381, Grain Drying & Storage Systems (3 hours), replaces TSM 381
ETMA 396, UG Honors Research or Thesis (1 to 4 hours), replaces TSM 396
ETMA 425, Managing Industrial and Agricultural Safety Risks (3 hours), replaces TSM 425
ETMA 435, Elec Computer Ctrl Sys (3 hours), replaces TSM 435
ETMA 496, Independent Study (1 to 4 hours), replaces TSM 496
"TSM Electives" is replaced by "ETMA Electives."

There is no change to the total hours required for the concentration or for the degree.

21) **Concentration in Digital and Precision Agriculture in the BS in Engineering Technology and Management for Agricultural Systems** – 1) in the list of Concentration Electives from which students are to select 18 hours, update the course rubric from GEOG to GGIS where students are to select one set of GGIS 379, Introduction to Geographic Information Systems (4 hours) or GGIS 380, Spatial Problem Solving (4 hours) OR GGIS 477, Introduction to Remote Sensing (3 hours) or GGIS 478, Techniques of Remote Sensing (3 hours); 2) in this same list of Concentration Electives, in the subsection from which students are to select one Natural Resources and Environmental Sciences course, add NRES 475, Environmental Microbiology (3 hours) and parse out the subsection of Crop Sciences courses such that students select one of either CPSC 212, Introduction to Plant Protection (3 hours) or CPSC 270, Applied Entomology (3 hours) and then another Crop Science course from an existing list that remains unchanged; 3) When the name of the major changed from "Technical Systems Management" to "Engineering Technology and Management for Agricultural Systems," the associated course rubric was also updated. As such, the following courses need to be updated as listed below:

ETMA 103, Agricultural Machinery and Technology (2 hours), replaces TSM 103
ETMA 262, Off-Road Equipment Management (3 hours), replaces TSM 262
ETMA 363, Fluid Power Systems (2 hours), replaces TSM 363

ETMA 435, Elec Computer Ctrl Sys (3 hours), replaces TSM 435
ETMA 464, Engine and Tractor Power (3 hours), replaces TSM 464
ETMA 467, Precision Agric Technology (3 hours), replaces TSM 467

There is no change to the total hours required for the concentration or for the degree.

22) **Concentration in Energy and the Environment in the BS in Engineering Technology and Management for Agricultural Systems** – 1) in the list of Concentration Electives from which students are to select 18 hours, within the subsection of Natural Resources and Environmental Courses from which students are to select at least one course, add NRES 429, Aquatic Ecosystem Conservation (3 hours) and in the subsection of other courses from which students may select to achieve the 18 minimum, remove ECE 482, Digital IC Design (3 hours); 2) When the name of the major changed from "Technical Systems Management" to "Engineering Technology and Management for Agricultural Systems," the associated course rubric was also updated. As such, the following courses need to be updated as listed below:

ETMA 130, Basics of CAD (1 hour), replaces TSM 130
ETMA 132, Basics of Project Management (1 hour), replaces TSM 132
ETMA 232, Materials and Construction Sys (3 hours), replaces TSM 232
ETMA 233, Metallurgy & Welding Process (3 hours), replaces TSM 233
ETMA 234, Wiring, Motors and Control Sys (3 hours), replaces TSM 234
ETMA 295, Undergrad Research or Thesis (1 to 4 hours), replaces TSM 295
ETMA 371, Residential Housing Design (3 hours), replaces TSM 371
ETMA 372, Environ Control & HVAC Systems (3 hours), replaces TSM 372
ETMA 381, Grain Drying & Storage Systems (3 hours), replaces TSM 381
ETMA 396, UG Honors Research or Thesis (1 to 4 hours), replaces TSM 396
ETMA 425, Managing Industrial and Agricultural Safety Risks (3 hours), replaces TSM 425
ETMA 435, Elec Computer Ctrl Sys (3 hours), replaces TSM 435
ETMA 496, Independent Study (1 to 4 hours), replaces TSM 496

There is no change to the total hours required for the concentration or for the degree.

23) **Minor in Agricultural, Consumer, and Environmental Sciences** – 1) in the list of Global Study in the Social Science Discipline courses from which students are to take 3-9 hours, update the course number for Public Information Campaigns from AGCM 320 to AGCM 420 (3 hours); 2) update the listing for GGIS 204, Cities of the World (3 hours); GGIS 210, Social & Environmental Issues (3 hours); and GGIS 410, Green Development (3 hours) so they reflect the department's current rubric, which changed from GEOG to GGIS; 3) in the list of Global Study in the Natural Disciplines courses from which students are to take 3-9 hours, update TSM 311, Humanity in the Food Web, to ETMA 311 (3 hours) to reflect the new rubric. There is no change to the total hours required for the minor.

24) **Minor in Spatial and Quantitative Methods in Natural Resources and Environmental Sciences** – to reflect the department's rubric change from GEOG to GGIS: 1) in the list of Mathematical Modeling courses from which students are to select one course, update the Biological Modeling course from GEOG 468 to GGIS 468 (3 hours); 2) in the Spatial Analysis courses from which students are to select one course, update GGIS 460, Aerial Photo Analysis (3 hours); GGIS 476, Applied GIS to Environ Studies (3 hours); GGIS 478, Techniques of Remote Sensing (3 hours); GGIS 479, Advanced Topics in GIS (3 hours); and GGIS 489, Programming for GIS (4 hours), changing the rubrics on all from GEOG to GGIS.

25) **Minor in Geography and Geographic Information Science** – in keeping with the update in the department's course rubric from GEOG to GGIS, the following courses in this minor need to be updated as listed below:

GGIS 101, Global Development&Environment (3 hours), replaces GEOG 101
GGIS 103, Earth's Physical Systems (4 hours), replaces GEOG 103

GGIS 104, Social and Cultural Geography (3 hours), replaces GEOG 104
GGIS 105, The Digital Earth (3 hours), replaces GEOG 105
GGIS 106, Geographies of Globalization (3 hours), replaces GEOG 106
GGIS 221, Geographies of Global Conflict (3 hours), replaces GEOG 221
GGIS 204, Cities of the World (3 hours), replaces GEOG 204
GGIS 205, Business Location Decisions, replaces GEOG 205
GGIS 224, Environmental Data Science (3 hours), replaces GEOG 224
GGIS 254, American People, Places, & Environments (3 hours), replaces GEOG 254
GGIS 350, Sustainability and the City (3 hours), replaces GEOG 350
GGIS 356, Sustainable Development in South Asia (3 hours), replaces GEOG 356
GGIS 384, Population Geography (3 hours), replaces GEOG 384
GGIS 405, Geography Field Course (3 hours), replaces GEOG 405
GGIS 410, Green Development (3 hours), replaces GEOG 410
GGIS 438, Geography of Health Care (3 hours), replaces GEOG 438
GGIS 455, Geography of Sub-Saharan Africa (3 hours), replaces GEOG 455
GGIS 465, Transportation &Sustainability (3 hours), replaces GEOG 465
GGIS 471, Recent Trends in Geog Thought (3 hours), replaces GEOG 471
GGIS 483, Urban Geography (3 hours), replaces GEOG 483
GGIS 484, Cities, Crime, and Space (3 hours), replaces GEOG 484
GGIS 210, Social & Environmental Issues (3 hours), replaces GEOG 210
GGIS 222, Big Rivers of the World (3 hours), replaces GEOG 222
NRES/GGIS 401, Watershed Hydrology (3 hours), replaces NRES/GEOG 401
GGIS 405, Geography Field Course (1 to 4 hours), replaces GEOG 405
GGIS 406, Fluvial Geomorphology (4 hours), replaces GEOG 406
GGIS 408, Humans and River Systems (4 hours), replaces GEOG 408
GGIS 412, Geospatial Technology & Society (3 hours), replaces GEOG 412
GGIS 459, Ecohydraulics (4 hours), replaces GEOG 459
GGIS 496, Climate & Social Vulnerability (3 hours), replaces GEOG 496
GGIS 371, Spatial Analysis (4 hours), replaces GEOG 371
GGIS 379, Introduction to Geographic Information Systems (4 hours), replaces GEOG 379
GGIS 380, Spatial Problem Solving (4 hours), replaces GEOG 380
GGIS 412, Geospatial Technology & Society (3 hours), replaces GEOG 412
GGIS 440, Business Applications of GIS (3 hours), replaces GEOG 440
GGIS 460, Aerial Photo Analysis (3 hours), replaces GEOG 460
GGIS 468, Biological Modeling (3 hours), replaces GEOG 468
GGIS 473, Digital Cartography & Map Design (4 hours), replaces GEOG 473
GGIS 476, Applied GIS to Environ Studies (3 hours), replaces GEOG 476
GGIS 477, Introduction to Remote Sensing (3 hours), replaces GEOG 477
GGIS 478, Techniques of Remote Sensing (3 hours), replaces GEOG 478
GGIS 479, Advanced Topics in GIS (3 hours), replaces GEOG 479
GGIS 480, Principles of Geographic Information Science (3 hours), replaces GEOG 480

There is no change to the total hours required for the minor.

26) **Concentration in Environmental Science & Management in the BS in Natural Resources and Environmental Sciences** -- in keeping with the update in the department's course rubric from GEOG to GGIS and the update in rubric from TSM to ETMA, the following courses in this concentration need to be updated as listed below:

GGIS 406, Fluvial Geomorphology (4 hours), replaces GEOG 406
GGIS 459, Ecohydraulics (4 hours), replaces GEOG 459
ETMA 352, Land and Water Mgt Systems (3 hours), replaces TSM 352

There is no change to the total hours required for the concentration or for the degree.

Date Submitted: 11/01/21 3:50 pm

# Viewing: 1PKS6019MS : Biomedical Image Computing, MS

Last approved: 07/21/21 9:32 am

Last edit: 01/18/22 9:07 am

Changes proposed by: Maddie Darling

| | |
|---|---|
| Catalog Pages Using this Program | Biomedical Image Computing, MS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1343 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **Grad_College**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 11/02/21 11:37 am
   Deb Forgacs (dforgacs): Approved for U Program Review
2. 11/02/21 12:05 pm
   Mark Anastasio (maa): Approved for 1343 Head
3. 12/07/21 4:28 pm
   Keri Pipkins (kcp): Approved for KP Committee Chair
4. 12/08/21 8:22 am
   Candy Deaville (candyd): Approved for KP Dean
5. 12/08/21 8:42 am
   John Wilkin (jpwilkin):

Rollback to KP Dean for University Librarian
6. 12/08/21 8:59 am Candy Deaville (candyd): Rollback to KP Committee Chair for KP Dean
7. 12/17/21 9:53 am Keri Pipkins (kcp): Approved for KP Committee Chair
8. 12/17/21 10:01 am Candy Deaville (candyd): Rollback to KP Committee Chair for KP Dean
9. 12/17/21 10:51 am Keri Pipkins (kcp): Approved for KP Committee Chair
10. 12/17/21 3:52 pm Candy Deaville (candyd): Approved for KP Dean
11. 12/17/21 4:19 pm John Wilkin (jpwilkin): Approved for University Librarian
12. 01/07/22 9:30 am Allison McKinney (agrindly): Approved for Grad_College
13. 01/18/22 9:11 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Jul 21, 2021 by Maddie Darling (darling4)

Major (ex. Special Education)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Biomedical Image Computing, MS |
| Sponsor College | Grainger College of Engineering |
| Sponsor Department | Bioengineering |
| Sponsor Name | Mark Anastasio |
| Sponsor Email | maa@illinois.edu |
| College Contact | Keri Carter Pipkins ~~Harry Dankowicz~~ |
| College Contact Email | kcp@illinois.edu ~~danko@illinois.edu~~ |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Revise the MS in Biomedical Image Computing:

Editing to include additional technical elective options.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Additional technical elective courses relevant to the degree have been identified.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The MS program in Biomedical Image Computing is being created to rigorously train students in biomedical imaging science and machine learning; beginning with foundational coursework that builds into a curriculum comprised of in-depth statistical and deep learning for biomedical imaging applications. The program will culminate with a capstone project in which students will develop and implement machine learning solutions to real-world problems in biomedical imaging.

Student learning objectives will be as follows:

• Ability to apply quantitative skills, engineering principles, and computational principles to propose novel and practical solutions to biomedical imaging problems
• Ability to recognize and understand professional and ethical responsibilities
• Ability to identify and communicate real-world biomedical imaging problems with bigger vision and offer solutions, as well as their impact, effectively to a diverse audience and stakeholders, both orally and in writing
• Ability to develop effective leadership skills in order to foster the ability to collaborate and work with a diverse team, which is essential for a career in either academia or industry

Student learning objectives will be assessed in a variety of ways, including:
• Coursework performance
• Presentations on capstone projects
• Capstone mentor feedback
• Progress meetings with the Program Director
• Exit interviews/survey
• Job/graduate school placement data

Students who elect to participate in the optional boot camp will take an exam at the end, strictly to determine baseline knowledge in Python programming concepts and data science tools. The results of this exam will be compared to coursework performance throughout the program, in an effort to track learning progress through the program. The capstone projects will be assessed based on the rigor of the evaluation studies and quality of the final presentation and report. The Program Director will hold mandatory advising meetings throughout the program and conduct exit interviews with each student at the end of the program. At the end of the program, students will also complete an anonymous online exit survey with questions pertaining to their level of preparation for either additional graduate study or their career. The program's governing committee, led by the Program Director, will convene at the end of each year to review the surveys and propose program modifications, if needed, based on student feedback. Job placement data will also be reviewed on an annual basis by the program committee, via responses to required Graduate College surveys and the Illini Success Survey.

This program does not involve licensure, certification, and/or entitlement requirements.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs MS BIC Side-by-Side 11012021.xlsx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

bioengineering.illinois.edu

Head of Department: Mark Anastasio
Associate Head of Graduate Programs: Gregory Underhill
1240 Everitt Laboratory
1406 W. Green St.
Urbana, IL 61801
(217) 333-1867
E-mail: bioe-gradprograms@illinois.edu

Major: Biomedical Image Computing
Degree Offered: M.S.

Graduate Degree Programs
The M.S. in Biomedical Image Computing blends together the fields of biomedical imaging science and machine learning. Students will receive a rigorous training in imaging systems and analysis, computational imaging, and machine learning, in preparation for an industry career.

Admission
Applicants should have a bachelor's degree in an engineering or other quantitative discipline from an accredited college or university. Students should have a minimum grade point average of 3.00 (A=4.00) or equivalent for the last two years of undergraduate study and show evidence of strong quantitative skills and of serious interest in imaging and machine learning through their personal statement. Students in the program do not have automatic admission to the Ph.D. program in any engineering department.

All applicants whose native language is not English must submit a minimum TOEFL score of 102 (iBT), 257 (CBT), or 613 (PBT); or minimum International English Language Testing System (IELTS) academic exam scores of 7.0 overall and 6.0 in all subsections. Applicants may be exempt from the TOEFL if certain criteria are met. Applicants with lesser scores may still apply. Limited status is granted for lesser scores and requires enrollment in English as a Second Language (ESL) courses based on an ESL Placement Test (EPT) taken upon arrival to campus.

Financial Aid
The tuition and fees for the M.S. in Biomedical Image Computing are the standard Graduate and Professional Programs rates for the College of Engineering. Students in the M.S. in Biomedical Image Computing program are not eligible for tuition-waiver generating assistantships.

Statement for Programs of Study Catalog

| Course List | | |
|---|---|---|
| Code | Title | Hours |
| Core Coursework | | |
| BIOE 483 | Biomedical Computed Imaging Systems | 4 |
| BIOE 484 | Statistical Analysis of Biomedical Images | 4 |
| BIOE 485 | Computational Mathematics for Machine Learning and Imaging | 4 |
| BIOE 486 | Applied Deep Learning for Biomedical Imaging | 4 |
| BIOE 488 | Applied High-Performance Computing for Imaging Science | 3 |
| BIOE 489 | Regulations, Ethics and Logistics in Biomedical Applications of Machine Learning | 4 |
| BIOE 580 | Foundations of Imaging Science | 4 |
| BIOE 588 | Biomedical Image Computing Capstone Project Literature Review | 1 |
| BIOE 589 | Biomedical Image Computing Capstone Project | 4 |
| Choose one of the following: | | 4 |
| BIOE 586 | Deep Generative Models in Bioimaging | |
| | OR | |
| Approved Elective Course (see below) | | |
| Approved Elective Courses: | | |
| Advisor Approval is required for elective courses not listed below | | |
| BIOE 504 | Analytical Methods in Bioeng | |
| BIOE 505 | Computational Bioengineering | |
| BIOE 507 | Advanced Bioinstrumentation | |
| BIOE 597 | Individual Study | |
| CS 543 | Computer Vision | |
| CS 547 | Deep Learning | |
| ECE 513 | Vector Space Signal Processing | |
| ECE 534 | Random Processes | |
| ECE 543 | Statistical Learning Theory | |
| ECE 544 | Topics in Signal Processing | |
| ECE 547 | Topics in Image Processing | |
| ECE 549 | Computer Vision | |
| ECE 558 | Digital Imaging | |
| ECE 561 | Statistical Inference for Engineers and Data Scientists | |
| ECE 564 | Modern Light Microscopy | |
| ECE 566 | Computational Inference and Learning | |
| ECE 569 | Inverse Problems in Optics | |
| ECE 580 | Optimiz by Vector Space Methds | |
| Total Hours | | 36 |

## Other Requirements

| Course List | | |
|---|---|---|
| Code | Title | Hours |
| Minimum 500-level hours required overall: | | 12 |
| Minimum GPA: | | 3.0 |
| Minimum credit hours taken from the University of Illinois at Urbana-Champaign campus: | | 12 |
| Maximum number of previous University of Illinois at Urbana-Champaign graduate-level coursework not applied to any other degree that may be transferred and applied to the major pending department and Graduate College approval. | | 12 |

| | |
|---|---|
| Corresponding Degree | MS Master of Science |

## Program Features

| | |
|---|---|
| Academic Level | Graduate |
| Does this major have transcripted concentrations? | No |

What is the typical time to completion of this program?

3 Semesters

What are the minimum Total Credit Hours required for this program?

36

| | |
|---|---|
| What is the required GPA? | 3.0 |
| CIP Code | 140501 - Bioengineering and Biomedical Engineering. |

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Admission Requirements

| | |
|---|---|
| Desired Effective Admissions Term | Fall 2021 |

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Applicants to the program must hold a minimum of a baccalaureate degree from an accredited college or university. Applicants will be expected to possess an undergraduate education in an engineering or other quantitative discipline. Applicants should have a minimum grade point average of 3.00 (A = 4.00) or equivalent for the last two years of undergraduate study and show evidence of strong quantitative skills and serious interest in imaging and machine learning through their personal statement.

Describe how critical academic functions such as admissions and student advising are managed.

A program committee will be established to administer the MS program. This committee will consist of tenured or tenure-track faculty members in the Department of Bioengineering including affiliate members from across Grainger Engineering who are engaged in computational biomedical imaging research and/or biomedical data analytics. This committee will be responsible for making admissions decisions and the day-to-day management and maintenance of the academic aspects of the MS program. A Program Director will be appointed to chair this committee.

The Program Director will be responsible for advising students on academic issues and monitoring their progress. It should be noted that the curriculum for the program contains a collection of courses that are largely prescribed, so the advising process should not be burdensome.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

No impact

Estimated Annual Number of Degrees Awarded

| Year One Estimate | 0 | 5th Year Estimate (or when fully implemented) |
|---|---|---|
| 40 | | |

What is the matriculation term for this program?

Fall

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

Yes

Please explain/describe:

Although the Department of Bioengineering immediately could accommodate a small cohort of students in the proposed program, the projected steady-state enrollment would place undue burden on current faculty and staff. We intend to fill two new tenure-track faculty positions before the program starts. The department has submitted an Investment for Growth (IFG) proposal to the campus to fund these positions. If the IFG proposal is not selected for funding, the Department of Bioengineering will still move forward with the needed faculty hires. In that case, the hiring commitments will be met by use of the faculty hiring lines already committed to

Dr. Anastasio by Grainger Engineering as part of his recruitment as department head.

In addition to the two new faculty hires, existing faculty in the Department of Bioengineering will contribute to the teaching needs of the program. Dr. Frank Brooks will teach two courses. Since his hiring last year, Dr. Brooks' teaching obligations to the department have been fulfilled by his efforts related to program development (including this one). With consideration of this and the two to-be-hired faculty, there will be, in effect, three new faculty available to contribute to the proposed program. The Department of Bioengineering will also be hiring in several other areas over the coming years. As new faculty join the department, this will permit the realignment of some of the teaching assignments of the department's imaging faculty to support the proposed degree program.

As such, due to these available resources and the Department of Bioengineering's commitment to invest in the area of biomedical image computing, the proposed degree program will receive the staffing needed for its success. In fact, the department has already begun faculty recruiting in areas that are directly relevant to the proposed program.

For the first two years, while the program is ramping up, we will leverage our existing staff to support the administrative needs of the program. We will also work with Professor Dankowicz to leverage Grainger Engineering's Graduate Program Office shared-service staff to provide additional support as necessary. In year 3, using program revenue, we will hire a new staff position at the coordinator level. This person would oversee the marketing, budgeting, and other day-to-day business of running the program.

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

As described in the budget section, the unit will support the new degree through strategic hiring of faculty as supported by existing commitments from Grainger Engineering. For the first two years, while the program is ramping up, we will leverage our existing staff to support the administrative needs of the program. We will also work with Professor Dankowicz to leverage Grainger Engineering’s Graduate Program Office shared-service staff to provide additional support as necessary. In Year 3, using program revenue, we will hire a new staff position at the coordinator level. This person would oversee the marketing, scheduling, budgeting and other day-to-day business of running the program.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

Yes

# Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

N/A

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

There is no impact to the use of the Library collections, resources, and services.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | MS:Biomed Image Computing-UIUC |
| Program Code: | 1PKS6019MS |

| Minor Code | Conc Code | Degree Code | | Major Code |
|---|---|---|---|---|
| 6019 | | | MS | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **John Wilkin (jpwilkin) (12/08/21 8:42 am):** Rollback: Reading through the submission, I infer that this proposal does not require new library materials or support, but we need a clearer statement to that effect (instead of N/A). If my inference is correct, please note that "Current library collection materials and services are adequate for this program/expansion." |

**Candy Deaville (candyd) (12/08/21 8:59 am):** Rollback: Reading through the submission, I infer that this proposal does not require new library materials or support, but we need a clearer statement to that effect (instead of N/A). If my inference is correct, please note that "Current library collection materials and services are adequate for this program/expansion." JPWilkins and Kathy Martensen

**Candy Deaville (candyd) (12/17/21 10:01 am):** Rollback: Roll back per Keri Carter Pipkins request.

**Allison McKinney (agrindly) (01/07/22 9:30 am):** Administratively approved by the Graduate College.

**Kathy Martensen (kmartens) (01/18/22 9:06 am):** Administrative approval: Doesn't change total hours or restrict student choice.

Key: 957

| Current Requirements | Current Hours | |
|---|---|---|
| **Core Coursework** | | |
| BIOE 483: Biomedical Computed Imaging Systems | 4 | |
| BIOE 484: Statistical Analysis of Biomedical Images | 4 | |
| BIOE 485: Computational Mathematics for Machine Learning and Imaging | 4 | |
| BIOE 486: Applied Deep Learning for Biomedical Imaging | 4 | |
| BIOE 488: Applied High-Performance Computing for Imaging Science | 3 | |
| BIOE 489: Regulations, Ethics and Logistics in Biomedical Applications of Machine Learning | 4 | |
| BIOE 580: Foundations of Imaging Science | 4 | |
| BIOE 588: Capstone Project Literature Review | 1 | |
| BIOE 589: Capstone Project | 4 | |
| | | |
| **Additional Courses:** | 4 | |
| BIOE 586 Deep Generative Models in Bioimaging OR | | |
| Approved Elecitve Course (see below) | | |
| | | |
| **Approved Electives:** | | |
| | | |
| | | |
| BIOE 505: Computational Bioengineering | | |
| BIOE 507: Advanced Bioinstrumentation | | |
| BIOE 597: Individual Study | | |
| CS 543: Computer Vision | | |
| CS 547: Deep Learning | | |
| | | |
| ECE 534: Random Processes | | |
| ECE 543: Statistical Learning Theory | | |
| ECE 544: Topics in Signal Processing | | |
| ECE 547: Topics in Image Processing | | |
| ECE 549: Computer Vision | | |
| ECE 558: Digital Imaging | | |
| ECE 561: Detection & Estimation Theory | | |
| ECE 564: Modern Light Microscopy | | |
| | | |
| ECE 569: Inverse Problems in Optics | | |
| ECE 580: Optimiz by Vector Space Methds | | |
| **Total Hours:** | **36** | |

| Proposed Requirements | Current Hours | |
|---|---|---|
| **Core Coursework** | | |
| BIOE 483: Biomedical Computed Imaging Systems | 4 | |
| BIOE 484: Statistical Analysis of Biomedical Images | 4 | |
| BIOE 485: Computational Mathematics for Machine Learning and Imaging | 4 | |
| BIOE 486: Applied Deep Learning for Biomedical Imaging | 4 | |
| BIOE 488: Applied High-Performance Computing for Imaging Science | 3 | |
| BIOE 489: Regulations, Ethics and Logistics in Biomedical Applications of Machine Learning | 4 | |
| BIOE 580: Foundations of Imaging Science | 4 | |
| BIOE 588: Capstone Project Literature Review | 1 | |
| BIOE 589: Capstone Project | 4 | |
| | | |
| **Additional Courses:** | 4 | |
| BIOE 586 Deep Generative Models in Bioimaging OR | | |
| Approved Elecitve Course (see below) | | |
| | | |
| **Approved Electives:** | | |
| **Advisor Approval is required for elective courses not listed below** | | |
| BIOE 504: Analytical Methods in Bioengineering | | |
| BIOE 505: Computational Bioengineering | | |
| BIOE 507: Advanced Bioinstrumentation | | |
| BIOE 597: Individual Study | | |
| CS 543: Computer Vision | | |
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| ECE 547: Topics in Image Processing | | |
| ECE 549: Computer Vision | | |
| ECE 558: Digital Imaging | | |
| ECE 561: Detection & Estimation Theory | | |
| ECE 564: Modern Light Microscopy | | |
| ECE 566: Computational Inference and Learning | | |
| ECE 569: Inverse Problems in Optics | | |
| ECE 580: Optimiz by Vector Space Methds | | |
| **Total Hours:** | **36** | |

Green indicates new course addition
Red indicates course removal

# Program Change Request

Date Submitted: 11/30/21 4:38 pm

## Viewing: 10KT0277BS : Advertising, BS

Last approved: 04/02/21 3:21 pm

Last edit: 12/14/21 9:20 am

Changes proposed by: Jason Chambers

| | |
|---|---|
| Catalog Pages Using this Program | Advertising, BS |

Proposal Type:

### In Workflow

1. **U Program Review**
2. **1408 Committee Chair**
3. **1408 Head**
4. **KT Committee Chair**
5. **KT Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

### Approval Path

1. 12/02/21 4:11 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/03/21 12:07 pm Jason Chambers (jpchambe): Approved for 1408 Committee Chair
3. 12/03/21 12:08 pm Mike Yao (mzyao): Approved for 1408 Head
4. 12/09/21 3:02 pm Patrick Vargas (pvargas): Approved for KT Committee Chair
5. 12/10/21 4:14 pm

Katie Clark (keclark): Approved for KT Dean
6. 12/10/21 4:20 pm John Wilkin (jpwilkin): Approved for University Librarian
7. 12/13/21 10:44 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Apr 2, 2021 by Jason Chambers (jpchambe)

Major (ex. Special Education)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Advertising, BS |
| Sponsor College | Media, College of |
| Sponsor Department | Advertising |
| Sponsor Name | Jason P. Chambers |
| Sponsor Email | jpchambe@illinois.edu |
| College Contact | Katie Clark |
| College Contact Email | keclark@illinois.edu |
| College Budget Officer | Amy Leng |
| College Budget Officer Email | amyleng@illinois.edu |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Jason P. Chambers - Associate Department Head - Dr. Chambers will do the editing work if the proposal is rolled back.

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: This proposal changes the number of required major core classes from a total of eight to six. It also requests a reduction in the number of hours required outside of the College of Media from 72 to 12.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

The requested changes reflect our desire for students to further concentrate their education through classes in the Department of Advertising and the College of Media. The former program that included eight required courses and 72 hours to be taken outside of the College of Media no longer reflects our faculty's outlook on the needs for a thorough education in advertising. Additionally, some of the program requirements were holdovers from a time in which our program sought accreditation from an outside organization. We no longer seek accreditation from that organization and, after dozens of hours of research and consultation, feel that the program outlined in this proposal is better for the students in our department.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The learning outcomes for the BS in Advertising are below:

1. Intellectual reasoning and knowledge
2. Creative inquiry and discovery
3. Effective collaboration and communication
4. Effective leadership and community engagement
5. Social, cultural and global understanding
6. Passion for learning

Each of the aforementioned objectives is incorporated into and assessed in each of the required courses in the major. Additionally, select outcomes are included in the elective courses within the major. It is also recommended that where appropriate, instructors perform a pre- and post-assessment of students understanding of these learning outcomes.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs Fall 2021 ADV Program Revision.docx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Advertising offers students the opportunity to learn and think about advertising as a way of modeling the mind, as a material reflection of social structure, as a fundamentally modern phenomenon, as an art form and even as a basis for community, by drawing on insights from psychology, sociology, history, literature, and anthropology. This program will thoroughly infuse the understanding of consumer behavior and message knowledge base and, therefore, provide a long-lasting education for students.

Statement for Programs of Study Catalog

To graduate from the advertising curriculum, a student must meet all general University and College requirements for the degree and must complete the following courses, all of which must be taken for a traditional letter grade:

Course List

| Code | Title | Hours |
|---|---|---|
| Required Major Courses | | 18 |
| ~~ADV 150~~ | ~~Introduction to Advertising~~ | ~~3~~ |
| ADV 281 | Advertising Research Methods | 3 |
| ADV 283 | Advertising and Brand Strategy | 3 |
| ADV 284 | Consumer Insight | 3 |
| ADV 390 | Content Creation | 3 |
| ADV 460 | Innovation in Advertising | 3 |
| ~~ADV 483~~ | ~~Audience Analysis~~ | ~~3~~ |
| Choose one of the courses below: | | 3 |
| ADV 492 | Tech and Advertising Campaigns | |
| ADV 498 | The Sandage Project | |
| ~~Major Electives~~ | | ~~12~~ |
| Advertising Electives | | 18 |
| Any ADV course not already required above | | |
| College of Media Electives 1 | | 9 |
| ~~Hours outside the College of Media (72 hours minimum)~~ | | ~~72~~ |
| Other Required Supporting Coursework: | | |
| BADM 320 | Principles of Marketing 2 | 3 |
| ECON 102 | Microeconomic Principles | 3 |
| ECON 103 | Macroeconomic Principles | 3 |
| STAT 100 | Statistics 3 | 3 |
| Select two of the following: | | 7-8 |
| ANTH 103 | Anthro in a Changing World | 3 |
| PSYC 100 | Intro Psych | 4 |
| SOC 100 | Introduction to Sociology | 4 |

Advanced Hours Requirement

At least 20 hours in courses numbered 200 or above. These courses must be outside and not cross-listed with the College of Media. At least 9 of the 20 hours must be in courses numbered 300 or above.

| Code | Title | Hours |
|---|---|---|
| Please note: Courses used to fulfill University General Education requirements or to fulfill requirements for a minor may count toward these requirements. | | |
| Total Hours 4 | | 124 |

**1**
*College of Media elective courses are those offered by or cross-listed with Advertising (ADV), Journalism (JOUR), Media and Cinema Studies (MACS), or Media (MDIA).*

**2**
*Which may be credited toward the College requirement of advanced hours outside the College.*

**3**
*Or another approved basic course or course sequence in statistical methods, which currently includes ECON 202, EPSY 280, PSYC 235, SOC 280, SOCW 225.*

**4**
*Including a minimum of 40 upper-division hours.*

Corresponding Degree: BS Bachelor of Science

## Program Features

Academic Level: Undergraduate

Does this major have transcripted concentrations? No

What is the typical time to completion of this program?
4 years

What are the minimum Total Credit Hours required for this program?
124 hours

CIP Code: 090903 - Advertising.

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

## Delivery Method

This program is available:
On Campus - Students are required to be on campus, they may take some online courses.

## Admission Requirements

Desired Effective: Fall 2022 ~~2021~~

Admissions Term

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

This program change only impacts students at the undergraduate level. As a result, admission requirements are those that are standard for all applicants at the University of Illinois.

Describe how critical academic functions such as admissions and student advising are managed.

Within the College of Media, the function of admissions and student advising are managed within our Student Services Center.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

It is anticipated that this revision will lead to an increase in the number of students who enroll in elective courses within the Department of Advertising and the College of Media.

Estimated Annual Number of Degrees Awarded

| Year One Estimate | 5th Year Estimate (or when fully implemented) |
|---|---|
| | |

What is the matriculation term for this program?

Fall

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

The reduction ~~increase~~ in the number of required major courses and in the hours taken outside of the College of Media will not require any budgetary changes.

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

This program change will be supported through the continued use of the existing University of Illinois tuition and budget model.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Media (Advertising) Differential Tuition

Are you seeking a change in the tuition rate or differential for this program?

No

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

It is not anticipated that the changes to the program will have any impact on faculty resources. There will not be a need to hire any additional faculty and that, based on the current maximum enrollment of our courses, student-faculty ratios will remain the same.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

It is not anticipated that the changes to the program will have any impact on University Library resources.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | BS:Advertising -UIUC |
| Program Code: | 10KT0277BS |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 0277 | | BS | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |

| | |
|---|---|
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (12/13/21 10:37 am):** Added footnote RE: 40 upper-division hours per K. Clark.<br>**Kathy Martensen (kmartens) (12/13/21 10:40 am):** Administrative approval: Doesn't change total hours required; doesn't restrict student choice. |

Key: 476

**Charles H. Sandage Department of Advertising**
**CURRENT Program**

Required Major Courses

| | | |
|---|---|---|
| ADV 150 | Introduction to Advertising | 3 |
| ADV 281 | Advertising Research Methods | 3 |
| ADV 283 | Advertising and Brand Strategy | 3 |
| ADV 284 | Consumer Insight | 3 |
| ADV 390 | Content Creation | 3 |
| ADV 460 | Innovation in Advertising | 3 |
| ADV 483 | Audience Analysis | 3 |
| ADV 498 | The Sandage Project | 3 |

Major Electives: Any ADV course not already required above 12

College of Media Electives* 8-16 Hours

Hours outside the College of Media (72 hours minimum) 72

Other Required Supporting Coursework:

| | | |
|---|---|---|
| BADM 320 | Principles of Marketing** | 3 |
| ECON 102 | Microeconomic Principles | 3 |
| ECON 103 | Macroeconomic Principles | 3 |
| STAT 100 | Statistics*** | 3 |

Select two of the following:

| | | |
|---|---|---|
| ANTH 103 | Anthro in a Changing World | 3 |
| PSYC 100 | Intro Psych | 4 |
| SOC 100 | Introduction to Sociology | 4 |

Advanced Hours Requirement

At least 20 hours in courses numbered 200 or above. These courses must be outside and not cross-listed with the College of Media. At least 9 of the 20 hours must be in courses numbered 300 or above.

Please note: Courses used to fulfill University General Education requirements or to fulfill requirements for a minor may count toward these requirements. Courses used to fulfill the College of Media's advanced outside hours requirement may also count toward these requirements.

124 total hours are required for graduation

Additional Notes:

*College of Media elective courses offered by or cross-listed with Journalism (JOUR), Media and Cinema Studies (MACS), or the College of Media (MDIA) count toward the remainder.

**Which may be credited toward the College requirement of advanced hours outside the College.

***Or another approved basic course or course sequence in statistical methods, which currently includes ECON 202, EPSY 280, PSYC 235, SOC 280, SOCW 225. Such courses may, if they qualify, also be credited toward the requirement of advanced ours and General Education courses outside the College.

**Charles H. Sandage Department of Advertising**
**REVISED Program (36 Hours in Major)**

Required Major Courses

| | | |
|---|---|---|
| ADV 281 | Advertising Research Methods | 3 |
| ADV 283 | Advertising and Brand Strategy | 3 |
| ADV 284 | Consumer Insight | 3 |
| ADV 390 | Content Creation | 3 |
| ADV 460 | Innovation in Advertising | 3 |

Choose **one** of the two courses below:

| | | |
|---|---|---|
| ADV 492 | Tech and Advertising Campaigns | 3 |
| ADV 498 | The Sandage Project | 3 |

Major Electives: Any ADV course not already required above 18

College of Media Electives* 8-16 Hours

Hours outside the College of Media (12 hours minimum) 12

Other Required Supporting Coursework:

| | | |
|---|---|---|
| BADM 320 | Principles of Marketing** | 3 |
| ECON 102 | Microeconomic Principles | 3 |
| ECON 103 | Macroeconomic Principles | 3 |
| STAT 100 | Statistics*** | 3 |

Select two of the following:

| | | |
|---|---|---|
| ANTH 103 | Anthro in a Changing World | 3 |
| PSYC 100 | Intro Psych | 4 |
| SOC 100 | Introduction to Sociology | 4 |

Advanced Hours Requirement

At least 20 hours in courses numbered 200 or above. These courses must be outside and not cross-listed with the College of Media. At least 9 of the 20 hours must be in courses numbered 300 or above.

Please note: Courses used to fulfill University General Education requirements or to fulfill requirements for a minor may count toward these requirements. Courses used to fulfill the College of Media's advanced outside hours requirement may also count toward these requirements.

124 total hours are required for graduation

Additional Notes:

*College of Media elective courses offered by or cross-listed with Journalism (JOUR), Media and Cinema Studies (MACS), or the College of Media (MDIA) count toward the remainder.

**Which may be credited toward the College requirement of advanced hours outside the College.

***Or another approved basic course or course sequence in statistical methods, which currently includes ECON 202, EPSY 280, PSYC 235, SOC 280, SOCW 225. Such courses may, if they qualify, also be credited toward the requirement of advanced ours and General Education courses outside the College.

Date Submitted: 12/03/21 11:41 am

# Viewing: 4092 : Materials Science & Engineering Minor, UG ~~Minor~~

Last approved: 01/27/20 5:34 pm

Last edit: 12/14/21 9:20 am

Changes proposed by: Laura Nagel

| | |
|---|---|
| Catalog Pages Using this Program | Materials Science & Engineering Minor, UG |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1919 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/03/21 4:44 pm
   Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/07/21 9:39 am
   Nancy Sottos (n-sottos): Approved for 1919 Head
3. 12/07/21 10:18 am
   Brooke Newell (bsnewell): Approved for KP Committee Chair
4. 12/07/21 10:21 am
   Candy Deaville (candyd): Approved for KP Dean
5. 12/07/21 10:22 am
   John Wilkin

(jpwilkin): Approved for University Librarian
6. 12/13/21 10:54 am
Kathy Martensen (kmartens): Approved for Provost

## History

1. Apr 23, 2019 by Deb Forgacs (dforgacs)
2. Sep 12, 2019 by Brooke Newell (bsnewell)
3. Jan 27, 2020 by Laura Nagel (ljnagel)

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Materials Science & Engineering Minor, UG ~~Minor~~ |
| Sponsor College | Grainger College of Engineering |
| Sponsor Department | Materials Science & Engineering |
| Sponsor Name | Dallas Trinkle |
| Sponsor Email | dtrinkle@illinois.edu |
| College Contact | Brooke Newell |
| College Contact Email | bsnewell@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Remove deactivated course from the elective list for the minor

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

MSE 454 has been removed from the catalog. We are updating the elective list to remove this course.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

NA

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

# Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs MatSE Minor_Minor Revision_Side by Side Table.xlsx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Materials are the basis for all engineering and also are the basis for much of the research in various areas of science. The Minor in Materials Science and Engineering is designed to give students in other areas of engineering and science both a broad view of all materials as well as several courses in a particular area of materials, knowledge that will be of value whether the student pursues a career in industry, government, or academia.

The courses, listed below, have been selected to give an undergraduate student both a strong background in all types of materials as well as more detailed knowledge of particular areas of materials science and engineering (e.g., ceramics, metals, polymers, electronic materials or biomaterials).

The following 18 credits are required:

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Core Course Work | | |
| MSE 280 | Engineering Materials | 3 |

| Code | Title | Hours |
|---|---|---|
| MSE 401 | Thermodynamics of Materials (Other thermodynamics courses may be substituted upon petition.) | 3 |
| One additional course chosen from an approved list below: | | 3 |
| MSE 304 | Electronic Properties of Matls | |
| MSE 402 | Kinetic Processes in Materials | |
| MSE 403 | Synthesis of Materials | |
| MSE 405 | Microstructure Determination | |
| MSE 406 | Thermal-Mech Behavior of Matls | |
| Nine additional hours in advanced courses selected from: | | 9 |
| MSE 404 | Laboratory Studies in Materials Science and Engineering | 1.5 |
| MSE 420 | Ceramic Materials & Properties | 3 |
| MSE 421 | Ceramic Processing | 3 or 4 |
| MSE 422 | Electrical Ceramics | 3 |
| MSE 440 | Mechanical Behavior of Metals | 3 |
| MSE 441 | Metals Processing | 3 |
| MSE 443 | Design of Engineering Alloys | 3 |
| MSE 445 | Corrosion of Metals | 3 or 4 |
| MSE 450 | Polymer Science & Engineering | 3 or 4 |
| MSE 453 | Plastics Engineering | 3 |
| ~~MSE 454~~ | ~~Course MSE 454 Not Found~~ | ~~3~~ |
| MSE 455 | Macromolecular Solids | 3 |
| MSE 456 | Mechanics of Composites | 3 |
| MSE 457 | Polymer Chemistry | 3 or 4 |
| MSE 458 | Polymer Physics | 3 or 4 |
| MSE 460 | Electronic Materials I | 3 |
| MSE 461 | Electronic Materials II | 3 |
| MSE 466 | Materials in Electrochem Syst | 3 |
| MSE 470 | Design and Use of Biomaterials | 3 |
| MSE 473 | Biomolecular Materials Science | 3 |
| MSE 474 | Biomaterials and Nanomedicine | 3 |
| MSE 480 | Surfaces and Colloids | 3 or 4 |
| MSE 481 | Electron Microscopy | 3 or 4 |
| MSE 484 | Composite Materials | 3 or 4 |
| MSE 485 | Atomic Scale Simulations | 3 or 4 |
| MSE 487 | Materials for Nanotechnology | 3 or 4 |
| MSE 488 | Optical Materials | 3 or 4 |

| Code | Title | Hours |
|---|---|---|
| MSE 489 | Matl Select for Sustainability | 3 or 4 |
| ECE 444 | IC Device Theory & Fabrication | 4 |

## Program Features

Academic Level Undergraduate

Is this minor?
A Comprehensive study in a single discipline

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?
No

## Delivery Method

This program is available:
On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?
No

Describe how the department will monitor the admission to/enrollment in the minor.

Student must meet with Chief Advisor prior to admission to minor.

Are there any prerequisites for the proposed minor?
No

Describe how this revision will impact enrollment and degrees awarded.

There will be no impact on minor enrollment or minors awarded.

## Budget

Are there No

budgetary implications for this revision?

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

There will not be any impact on University Library resources, collections or services.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Materials Science and Engineering |
| Program Code: | 4092 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 4092 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |

| | |
|---|---|
| Program Reviewer Comments | **Kathy Martensen (kmartens) (12/13/21 10:44 am):** Administrative approval: Doesn't change total hours required; doesn't restrict student choice. |

Key: 126

**Current minor requirements:**
http://catalog.illinois.edu/courses-of-instruction/mse/

# Minor in Materials Science and Engineering

Materials are the basis for all engineering and also are the basis for much of the research in various areas of science. The Minor in Materials Science and Engineering is designed to give students in other areas of engineering and science both a broad view of all materials as well as several courses in a particular area of materials, knowledge that will be of value whether the student pursues a career in industry, government, or academia.

The courses, listed below, have been selected to give an undergraduate student both a strong background in all types of materials as well as more detailed knowledge of a particular area of materials (e.g., ceramics, metals, polymers, electronic materials or biomaterials)

The following six courses are required:

| Code | Title | Hours |
|---|---|---|
| Core Course Work | | |
| MSE 280 | Engineering Materials | 3 |
| MSE 401 | Thermodynamics of Materials [1] | 3 |
| One additional course chosen from an approved list. [2] | | 3 |
| Introductory Area course chosen form an approved list. [3] | | 3 |
| Senior lab source chosen from an approved list. [3] | | 3 |
| Advanced Area course chosen from one of several approved lists. [3] | | 3 |
| **Total Hours** | | **18** |

Course List

1 *Other thermodynamics courses may be substituted upon petition.*

2 *Approved List of Core Courses.* (Note: the links on official catalogue are broken)

3 *Approved List for Area Introductory Courses, Senior Lab Courses, and Advanced Area Courses.*

**Proposed revised minor requirements:**

# Minor in Materials Science and Engineering

Materials are the basis for all engineering and also are the basis for much of the research in various areas of science. The Minor in Materials Science and Engineering is designed to give students in other areas of engineering and science both a broad view of all materials as well as several courses in a particular area of materials, knowledge that will be of value whether the student pursues a career in industry, government, or academia.

The courses, listed below, have been selected to give an undergraduate student both a strong background in all types of materials as well as more detailed knowledge of particular areas of materials science and engineering (e.g., ceramics, metals, polymers, electronic materials or biomaterials)

The following 18 credits are required:

| Code | Title | Hours |
|---|---|---|
| Core Course Work | | |
| MSE 280 | Engineering Materials | 3 |
| MSE 401 | Thermodynamics of Materials [1] | 3 |
| One additional core course chosen from an approved list. [2] | | 3 |
| Nine additional hours in advanced courses selected from approved list. [3] | | 9 |
| **Total Hours** | | **18** |
| Course List | | |

[1] *Other thermodynamics courses may be substituted upon petition.*

[2] *Approved List of Core Courses.* Note: this list includes MSE 304, 402, 403, 405, and 406

[3] Approved list of advanced courses:

| | | | |
|---|---|---|---|
| MSE | 403 | Synthesis of Materials | 3 |
| MSE | 404 | Laboratory Studies in Materials Science and Engineering | 3 |
| MSE | 420 | Ceramic Materials & Properties | 3 |
| MSE | 421 | Ceramic Processing | 3 |
| MSE | 422 | Electrical Ceramics | 3 |
| MSE | 440 | Mechanical Behavior of Metals | 3 |
| MSE | 441 | Metals Processing | 3 |
| MSE | 443 | Design of Engineering Alloys | 3 |
| MSE | 445 | Corrosion of Metals | 3 |
| MSE | 450 | Polymer Science & Engineering | 3 |
| MSE | 453 | Plastics Engineering | 3 |
| MSE | 454 | Mechanics of Polymers | 3 |
| MSE | 455 | Macromolecular Solids | 3 |
| MSE | 456 | Mechanics of Composites | 3 |
| MSE | 457 | Polymer Chemistry | 3 |
| MSE | 458 | Polymer Physics | 3 |

| | | | |
|---|---|---|---|
| MSE | 460 | Electronic Materials I | 3 |
| MSE | 461 | Electronic Materials II | 3 |
| MSE | 466 | Materials in Electrochem Systems | 3 |
| MSE | 470 | Design and Use of Biomaterials | 3 |
| MSE | 473 | Biomolecular Materials Science | 3 |
| MSE | 474 | Biomaterials and Nanomedicine | 3 |
| MSE | 480 | Surfaces and Colloids | 3 |
| MSE | 481 | Electron Microscopy | 3 |
| MSE | 484 | Composite Materials | 3 |
| MSE | 485 | Atomic Scale Simulations | 3 |
| MSE | 487 | Materials for Nanotechnology | 3 |
| MSE | 488 | Optical Materials | 3 |
| MSE | 489 | Matl Select for Sustainability | 3 |
| ECE | 444 | IC Device Theory & Fabrication | 4 |
| | | | |

**RED HIGHLIGHT = Course to be removed from listed requirements.**

**Current Program of Study**

## Minor Requirements:

| Code | Title | Hours |
|---|---|---|
| | Course List | |
| Core Course Work | | |
| MSE 280 | Engineering Materials | 3 |
| MSE 401 | Thermodynamics of Materials (Other thermodynamics courses may be substituted upon petition.) | 3 |
| One additional course chosen from an approved list below: | | 3 |
| MSE 304 | Electronic Properties of Matls | |
| MSE 402 | Kinetic Processes in Materials | |
| MSE 403 | Synthesis of Materials | |
| MSE 405 | Microstructure Determination | |
| MSE 406 | Thermal-Mech Behavior of Matls | |
| Nine additional hours in advanced courses selected from: | | 9 |
| MSE 404 | Laboratory Studies in Materials Science and Engineering | 1.5 |
| MSE 420 | Ceramic Materials & Properties | 3 |
| MSE 421 | Ceramic Processing | 3 or 4 |
| MSE 422 | Electrical Ceramics | 3 |
| MSE 440 | Mechanical Behavior of Metals | 3 |
| MSE 441 | Metals Processing | 3 |
| MSE 443 | Design of Engineering Alloys | 3 |
| MSE 445 | Corrosion of Metals | 3 or 4 |
| MSE 450 | Polymer Science & Engineering | 3 or 4 |
| MSE 453 | Plastics Engineering | 3 |
| MSE 454 | | 3 |
| MSE 455 | Macromolecular Solids | 3 |
| MSE 456 | Mechanics of Composites | 3 |
| MSE 457 | Polymer Chemistry | 3 or 4 |
| MSE 458 | Polymer Physics | 3 or 4 |
| MSE 460 | Electronic Materials I | 3 |
| MSE 461 | Electronic Materials II | 3 |
| MSE 466 | Materials in Electrochem Syst | 3 |
| MSE 470 | Design and Use of Biomaterials | 3 |

**New Program of Study**

## Minor Requirements:

| Code | Title | Hours |
|---|---|---|
| | Course List | |
| Core Course Work | | |
| MSE 280 | Engineering Materials | 3 |
| MSE 401 | Thermodynamics of Materials (Other thermodynamics courses may be substituted upon petition.) | 3 |
| One additional course chosen from an approved list below: | | 3 |
| MSE 304 | Electronic Properties of Matls | |
| MSE 402 | Kinetic Processes in Materials | |
| MSE 403 | Synthesis of Materials | |
| MSE 405 | Microstructure Determination | |
| MSE 406 | Thermal-Mech Behavior of Matls | |
| Nine additional hours in advanced courses selected from: | | 9 |
| MSE 404 | Laboratory Studies in Materials Science and Engineering | 1.5 |
| MSE 420 | Ceramic Materials & Properties | 3 |
| MSE 421 | Ceramic Processing | 3 or 4 |
| MSE 422 | Electrical Ceramics | 3 |
| MSE 440 | Mechanical Behavior of Metals | 3 |
| MSE 441 | Metals Processing | 3 |
| MSE 443 | Design of Engineering Alloys | 3 |
| MSE 445 | Corrosion of Metals | 3 or 4 |
| MSE 450 | Polymer Science & Engineering | 3 or 4 |
| MSE 453 | Plastics Engineering | 3 |
| MSE 455 | Macromolecular Solids | 3 |
| MSE 456 | Mechanics of Composites | 3 |
| MSE 457 | Polymer Chemistry | 3 or 4 |
| MSE 458 | Polymer Physics | 3 or 4 |
| MSE 460 | Electronic Materials I | 3 |
| MSE 461 | Electronic Materials II | 3 |
| MSE 466 | Materials in Electrochem Syst | 3 |
| MSE 470 | Design and Use of Biomaterials | 3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MSE 473 | Biomolecular Materials Science | | 3 | MSE 473 | Biomolecular Materials Science | | 3 |
| MSE 474 | Biomaterials and Nanomedicine | | 3 | MSE 474 | Biomaterials and Nanomedicine | | 3 |
| MSE 480 | Surfaces and Colloids | 3 or 4 | | MSE 480 | Surfaces and Colloids | 3 or 4 | |
| MSE 481 | Electron Microscopy | 3 or 4 | | MSE 481 | Electron Microscopy | 3 or 4 | |
| MSE 484 | Composite Materials | 3 or 4 | | MSE 484 | Composite Materials | 3 or 4 | |
| MSE 485 | Atomic Scale Simulations | 3 or 4 | | MSE 485 | Atomic Scale Simulations | 3 or 4 | |
| MSE 487 | Materials for Nanotechnology | 3 or 4 | | MSE 487 | Materials for Nanotechnology | 3 or 4 | |
| MSE 488 | Optical Materials | 3 or 4 | | MSE 488 | Optical Materials | 3 or 4 | |
| MSE 489 | Matl Select for Sustainability | 3 or 4 | | MSE 489 | Matl Select for Sustainability | 3 or 4 | |
| ECE 444 | IC Device Theory & Fabrication | | 4 | ECE 444 | IC Device Theory & Fabrication | | 4 |

Date Submitted: 12/08/21 9:54 am

# Viewing: 5094 : Informatics Minor, UG

Last approved: 09/30/21 3:22 pm

Last edit: 12/14/21 9:20 am

Changes proposed by: Karin Readel

| | |
|---|---|
| Catalog Pages Using this Program | Informatics Minor, UG |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1468 Head**
3. **LP Dean**
4. **University Librarian**
5. **Provost**
6. **Senate EPC**
7. Senate
8. U Senate Conf
9. Board of Trustees
10. IBHE
11. HLC
12. DMI

## Approval Path

1. 12/08/21 3:07 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/08/21 3:28 pm Karin Readel (kereadel): Approved for 1468 Head
3. 12/08/21 3:57 pm Emily Knox (knox): Approved for LP Dean
4. 12/08/21 4:15 pm John Wilkin (jpwilkin): Approved for University Librarian
5. 12/13/21 1:10 pm Kathy Martensen (kmartens): Approved for Provost

## History

1. Nov 4, 2019 by Karin Readel (kereadel)
2. Jun 18, 2020 by Deb Forgacs (dforgacs)
3. Sep 30, 2021 by Karin Readel (kereadel)

Minor (ex. European Union Studies)

This proposal is for a:

Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Informatics Minor, UG |
| Sponsor College | Information Science, School of |
| Sponsor Department | Informatics |
| Sponsor Name | Karin Readel |
| Sponsor Email | kereadel@illinois.edu |
| College Contact | Karin Readel |
| College Contact Email | kereadel@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Fall 2022 |

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Requesting to formalize a long standing agreement regarding restricting Information Systems majors from using BADM courses as upper level electives.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Information Systems majors have been restricted from taking BADM courses as INFO electives since the implementation of this minor in 2007 because there are so many BADM courses required in their major. However this rule was never formalized, and this has resulted in confusion in students' degree audits. We are seeking to formalize this rule, so BADM courses will be automatically excluded in the INFO electives section of Information Systems majors' audits.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

no changes to prior plan

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs INFO Minor Revision FA2021-ProgramofStudy.docx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds “chose-from” lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

The Minor in Informatics will teach you to become a better creator and user of computing technology in your major area and to think critically about new technology's role in society. No other field has, and will have, a greater influence on humanity in our generation.

Informatics studies the design, application, use and impact of information technology. The ability to handle vast amounts of information cheaply has changed the way we live. Advances in computer power, the World Wide Web, search engines, social networking, mobile technology, GIS, and large-scale collaborative initiatives, to name a few, have revolutionized the way knowledge is created and shared. Information has become a ubiquitous, indispensable component of our everyday lives, as we strive to manage information, create knowledge, and make decisions.

The Informatics Minor signals that you have concrete expertise in computing and Information Technology (IT) and understand their human implications.

Students from any major interested in applying technology or studying its effect on humanity are encouraged to apply, preferably by the end of sophomore year. Although there are no prerequisites, basic familiarity with computers is expected.To receive the Informatics Minor students must complete three core courses plus three upper-level classes with sufficient informatics or computational content from an approved list of courses offered from a wide range of disciplines. The core courses are INFO 102, CS 105, and INFO 202. INFO 102 is a broad introduction to computer science and provides an understanding of the nature, capabilities, and limitations of IT. CS 105 is an introduction to computer programming for non-science and non-engineering majors. INFO 202 explores the ways in which IT has and is transforming society and how these technologies affect a range of social, political, and economic issues from the individual to societal levels. Some substitutions can be made. The list of upper-level courses that count toward the minor is here: https://informatics.ischool.illinois.edu/courses-for-the-minor/. ~~https://www.informatics.illinois.edu/courses-for-the-minor/.~~This list is dynamic as new classes are added each year.

Statement for Programs of Study Catalog

## Course requirements for students who are **NOT** CS, CS+, ECE, ~~not CS~~ or Information Systems ~~CS+ or ECE~~ majors or CS minors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 102 | Little Bits to Big Ideas | 4 |
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3 |
| CS 105 | Intro Computing: Non-Tech | |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |

| Code | Title | Hours |
|---|---|---|
| STAT 107 | Data Science Discovery | |
| ECE 120 | Introduction to Computing | |
| & ECE 220 | and Computer Systems & Programming | |
| ~~3 upper-level courses from an Informatics-approved list of courses from a variety of disciplines, all with sufficient informatics or computational content~~ | | ~~9-12~~ |
| 3 upper-level courses from an Informatics-approved list of courses | | 9 |
| Total Hours | | 19 |

## Course requirements for students who are CS, CS+, ~~CS+~~ or ECE majors and CS minors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3-4 |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| ECE 220 | Computer Systems & Programming | |
| 4 upper-level, non-CS courses from an Informatics-approved list of courses | | 12 |
| Total Hours | | 18-19 |

## Course requirements for students who are Information Systems majors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 102 | Little Bits to Big Ideas | 4 |
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3 |
| CS 105 | Intro Computing: Non-Tech | |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| STAT 107 | Data Science Discovery | |
| ECE 120 | Introduction to Computing | |
| & ECE 220 | and Computer Systems & Programming | |
| 3 upper-level, non-BADM courses from an Informatics-approved list of courses | | 9 |
| Total Hours | | 19 |

## Program Features

Academic Level Undergraduate

Is this minor?

A Comprehensive study in a single discipline

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

Students will meet with Informatics Education Coordinator for advising and ~~to~~ fill out online declaration form.

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

no anticipated impact.

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

### Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

### Technology

Will the program need additional technology beyond what is currently available for the unit?

No

### Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s) INFO-Minor-Revision-BADM.pdf

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

no anticipated impact

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Informatics |
| Program Code: | 5094 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 5094 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |

Program Reviewer Comments

**Deb Forgacs (dforgacs) (12/07/21 1:57 pm):** Rollback: Requested.
**Kathy Martensen (kmartens) (12/13/21 10:54 am):** Administrative approval: Doesn't change total hours required; doesn't restrict student choice.
**Kathy Martensen (kmartens) (12/13/21 1:10 pm):** Administrative approval: No change to total hours required for the minor; doesn't limit student choice.

Key: 292

## OLD PROGRAM OF STUDY

### Course requirements for students who are not CS or CS+ or ECE majors or CS minors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 102 | Little Bits to Big Ideas | 4 |
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3 |
| CS 105 | Intro Computing: Non-Tech | |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| STAT 107 | Data Science Discovery | |
| ECE 120 & ECE 220 | Introduction to Computing and Computer Systems & Programming | |
| 3 upper-level courses from an Informatics-approved list of courses from a variety of disciplines, all with sufficient informatics or computational content | | 9 |
| **Total Hours** | | **19** |

Course List

### Course requirements for CS, CS+ or ECE majors and CS minors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3-4 |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| ECE 220 | Computer Systems & Programming | |
| 4 upper-level, non-CS courses from an Informatics-approved list | | 12 |
| **Total Hours** | | **18-19** |

Course List

## NEW PROGRAM OF STUDY (new section at end for Information Systems majors:

## Course requirements for students who are not CS or CS+ or ECE majors or CS minors or Information Systems majors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 102 | Little Bits to Big Ideas | 4 |
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3 |
| CS 105 | Intro Computing: Non-Tech | |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| STAT 107 | Data Science Discovery | |
| ECE 120 & ECE 220 | Introduction to Computing and Computer Systems & Programming | |
| 3 upper-level courses from an Informatics-approved list of courses | | 9 |
| **Total Hours** | | **19** |

Course List

## Course requirements for CS, CS+ or ECE majors and CS minors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3-4 |
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| ECE 220 | Computer Systems & Programming | |
| 4 upper-level, non-CS courses from an Informatics-approved list of courses | | 12 |
| **Total Hours** | | **18-19** |

Course List

## Course requirements for Information Systems majors:

Course List

| Code | Title | Hours |
|---|---|---|
| INFO 102 | Little Bits to Big Ideas | 4 |
| INFO 202 | Social Aspects Info Tech | 3 |
| Select one of the following: | | 3 |
| CS 105 | Intro Computing: Non-Tech | |

| Code | Title | Hours |
|---|---|---|
| CS 101 | Intro Computing: Engrg & Sci | |
| CS 124 | Introduction to Computer Science I | |
| STAT 107 | Data Science Discovery | |
| ECE 120 & ECE 220 | Introduction to Computing and Computer Systems & Programming | |
| 3 upper-level non-BADM courses from an Informatics-approved list of courses | | 9 |
| **Total Hours** | | **19** |

Course List

Date Submitted: 12/14/21 3:24 pm

# Viewing: 5032 : Study of the Islamic World Minor

Last edit: 01/05/22 11:04 am

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | Study of the Islamic World, Interdisciplinary Minor |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1954 Head**
3. **KV Dean**
4. **University Librarian**
5. **Provost**
6. **Senate EPC**
7. Senate
8. U Senate Conf
9. Board of Trustees
10. IBHE
11. HLC
12. DMI

## Approval Path

1. 12/15/21 1:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 12/15/21 1:29 pm
   Wail Hassan (whassan):
   Approved for 1954 Head
3. 12/15/21 1:50 pm
   Stephen Downie (sdownie):
   Approved for KV Dean
4. 12/15/21 1:52 pm
   John Wilkin (jpwilkin):
   Approved for University Librarian
5. 01/05/22 11:06 am
   Kathy Martensen (kmartens):
   Approved for

Provost

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Study of the Islamic World Minor |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | S. Asian & MidEast Studies |
| Sponsor Name | Wail Hassan |
| Sponsor Email | whassan@illinois.edu |
| College Contact | Stephen R. Downie |
| College Contact Email | sdownie@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Fall 2022 |

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Administrative Update to Curricula Study of the Islamic World Interdisciplinary Minor.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

REL 213: Intro to Islam - ACP has been deactivated as a course as of May 2020. Removing REL 213 from course options for the minor.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs — Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and

number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Completion of a fourth semester course in an Islamic language (e.g. Arabic, Turkish, Swahili, Wolof). | | 4 |
| Select courses from the approved course list. | | |
| Select one of the following: | | 3 |
| HIST 135 | History of Islamic Middle East | |
| SAME 152 | The New Middle East | |
| REL 214 | Introduction to Islam | |
| Additional courses chosen from the approved course list. The courses must come from at least two disciplines. At least six hours must be at the 300- or 400-level. | | 12 |
| Total Hours | | 19 |

## Program Features

Academic Level Undergraduate

Is this minor?

An interdisciplinary study focusing on a single theme

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

N/A

## Budget

| | |
|---|---|
| Are there budgetary implications for this revision? | No |

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact to unit

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

### Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

### Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Interdisciplinary Minor in the Study of the Islamic World |
| Program Code: | 5032 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 5032 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference | |

| | |
|---|---|
| Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/05/22 11:05 am):** Admin approval: Does not change total hours required/restrict students' options. |

Key: 253

Date Submitted: 12/14/21 4:15 pm

# Viewing: 5131 : Sub-Saharan African Languages Minor

Last edit: 01/05/22 11:07 am

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | Sub-Saharan African Languages Minor |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1864 Head**
3. **SLCL Head**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/15/21 1:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 12/15/21 1:58 pm
   James Hye Suk Yoon (jyoon):
   Approved for 1864 Head
3. 12/15/21 2:26 pm
   Luisa-Elena Delgado (ldelgado):
   Approved for SLCL Head
4. 12/16/21 10:21 am
   Stephen Downie (sdownie):
   Approved for KV Dean
5. 12/16/21 10:23 am
   John Wilkin

(jpwilkin): Approved for University Librarian
6. 01/05/22 11:09 am
Kathy Martensen (kmartens): Approved for Provost

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Sub-Saharan African Languages Minor |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | Linguistics |
| Sponsor Name | James Hye Suk Yoon |
| Sponsor Email | jyoon@illinois.edu |
| College Contact | Stephen R. Downie |
| College Contact Email | sdownie@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Fall 2022 |

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Administrative Update to Curricula Sub-Saharan African Languages Minor.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

LING 420:Intro to African Linguistics has been deactivated as a course as of Fall 2018. Removing LING 420 from course options for the minor.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Language | | 6 |
| Advanced African Language courses beyond the second year courses chosen in consultation with the minor advisor. Only one African Language can be chosen to fulfill this requirement. | | |
| African Linguistics | | 6 |
| 3 hours: Introductory course chosen from the following: | | |
| LING 100 | Intro to Language Science | |
| LING 400 | Intro to Linguistic Structure | |
| 3 hours: 300 or 400-level course chosen from the following: | | |
| LING 412 | Lang in African Culture & Soc | |
| ~~LING 420~~ | ~~Course LING 420 Not Found~~ | |
| A similar course at the 300- or 400-level approved by the advisor | | |
| African Studies | | 6 |
| Courses must be selected in consultation with the advisor. | | |
| One course chosen from the list of approved introductory courses; and | | |
| One course chosen from the list of approved courses at the 300 or 400-level. | | |
| Note that many courses on the list require a prerequisite such as AFST 222 or HIST 110. | | |
| Total Hours | | 18 |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |

Is this minor?

A Comprehensive study in a single discipline

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

N/A

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact to unit.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

EP Control Number: EP.22.068

Attach Rollback/Approval Notices

| | |
|---|---|
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Subsaharian African Languages |
| Program Code: | 5131 |

| | | | | |
|---|---|---|---|---|
| Minor Code | 5131 | Conc Code | Degree Code | Major Code |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/05/22 11:06 am):** Admin approval: Does not change total hours required/restrict students' options. |

Key: 384

# Program Change Request

Date Submitted: 12/14/21 2:58 pm

## Viewing: 5228 : Hindi Studies Minor

Last edit: 01/05/22 11:10 am

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | Hindi Studies Minor |

Proposal Type:

### In Workflow

1. **U Program Review**
2. **1864 Head**
3. **SLCL Head**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

### Approval Path

1. 12/15/21 1:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 12/15/21 1:59 pm
   James Hye Suk Yoon (jyoon):
   Approved for 1864 Head
3. 12/15/21 2:26 pm
   Luisa-Elena Delgado (ldelgado):
   Approved for SLCL Head
4. 12/16/21 10:20 am
   Stephen Downie (sdownie):
   Approved for KV Dean
5. 12/16/21 10:23 am
   John Wilkin

(jpwilkin): Approved for University Librarian
6. 01/05/22 11:12 am
Kathy Martensen (kmartens): Approved for Provost

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Hindi Studies Minor |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | Linguistics |
| Sponsor Name | James Hye Suk Yoon |
| Sponsor Email | jyoon@illinois.edu |
| College Contact | Stephen R. Downie |
| College Contact Email | sdownie@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*
Mithilesh Mishra

Does this program have inter-departmental administration?
No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Fall 2022 |

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Administrative Update to Hindi Studies Minor

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

LING 111 course number was changed and approved to LING 222 in Spring 2020. Updating program requirements for the minor.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Hindi language requirement | | 10 |
| HNDI 404 | Intermediate Hindi II | |
| HNDI 405 | Advanced Hindi I | |
| HNDI 406 | Advanced Hindi II | |
| Two courses in Indian Linguistics/sociolinguistics (to be chosen from the following list in consultation with advisor) | | 6 |
| LING 115 | Language and Culture in India | |
| HNDI 412 | Business Hindi | |
| ~~LING 111~~ | ~~Course LING 111 Not Found~~ | |
| LING 222 | Language in Globalization | |
| One historically significant language course related to Modern Hindi or a course on Indian/South Asian Literature | | 3-5 |
| SNSK 201 | Elementary Sanskrit I | |
| SNSK 202 | Elementary Sanskrit II | |
| ARAB 201 | Elementary Standard Arabic I | |
| ARAB 202 | Elementary Standard Arabic II | |
| PERS 201 | Elementary Persian I | |
| PERS 202 | Elementary Persian II | |
| HNDI 408 | Intro to South Asian Lit | |
| Students with prior knowledge of any of the languages mentioned above can also meet the 3-5 credit requirement by taking upper level courses of the languages. | | |
| Total Hours | | 19-21 |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |

Is this minor?

A Comprehensive study in a single discipline

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

N/A

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact to unit.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

### Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

### Technology

Will the program need additional technology beyond what is currently available for the unit?

No

### Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

EP Control Number: EP.22.068

Attach

| | |
|---|---|
| Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Hindi Studies |
| Program Code: | 5228 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | 5228 | Conc Code | | Degree Code | | Major Code | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/05/22 11:10 am):** Admin approval: Does not change total hours required/restrict students' options. |

Key: 382

# Program Change Request

Date Submitted: 12/14/21 2:47 pm

## Viewing: 5233 : Arabic Studies Minor

Last edit: 01/05/22 11:13 am

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | Arabic Studies Minor, UG |

Proposal Type:

### In Workflow

1. **U Program Review**
2. **1864 Head**
3. **SLCL Head**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

### Approval Path

1. 12/15/21 1:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 12/15/21 1:59 pm
   James Hye Suk Yoon (jyoon):
   Approved for 1864 Head
3. 12/15/21 2:26 pm
   Luisa-Elena Delgado (ldelgado):
   Approved for SLCL Head
4. 12/16/21 10:19 am
   Stephen Downie (sdownie):
   Approved for KV Dean
5. 12/16/21 10:24 am
   John Wilkin

(jpwilkin): Approved for University Librarian
6. 01/05/22 11:15 am
Kathy Martensen (kmartens): Approved for Provost

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Arabic Studies Minor |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | Linguistics |
| Sponsor Name | James Hye Suk Yoon |
| Sponsor Email | jyoon@illinois.edu |
| College Contact | Stephen R. Downie |
| College Contact Email | sdownie@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*
Eman Saadah

Does this program have inter-departmental administration?
No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Fall 2022 |

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Administrative Update to Arabic Studies Minor.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

REL 213:Intro to Islam - ACP has been deactivated as a course as of May 2020. Removing REL 213 from a long list of course options for the minor.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Language requirement | | 6 |
| ARAB 405 | Advanced Standard Arabic I | |
| ARAB 406 | Advanced Standard Arabic II | |
| Arabic Culture and Linguistics courses | | 6 |
| Choose two courses from the following in consultation with the advisor: ARAB 150- Lang;Culture of Arab World OR ARAB 210: Colloquial Arabic I OR ARAB 412: Business Arabic OR a Study Abroad Equivalent (must be approved by the advisor) | | |
| Two Interdisciplinary courses related to the Arab World (To be chosen from the following list in consultation with the advisor) | | 6 |
| ARAB 407 | Topics Stand Arabic Lang&Lit I | |
| ARAB 408 | Topics Stand Arabic LangLit II | |
| ARAB 409 | Adv Top Stand Arabic LangLit I | |
| ARAB 410 | AdvTop Stand Arabic LangLit II | |
| ARAB 413 | Arabic-English Translation | |
| CWL 205 | Islam & West Through Lit | |
| CWL 481 | Topics in Arabic Literature & Culture | |
| HIST 135 | History of Islamic Middle East | |
| HIST 334 | Modern Palestinian History | |
| HIST 335 | Middle East 1566-1914 | |
| HIST 337 | Middle East Since World War I | |
| HIST 338 | Egypt Since World War I | |
| PS 347 | Gov & Pol of Middle East | |
| ~~REL 213~~ | ~~Course REL 213 Not Found~~ | |
| REL 214 | Introduction to Islam | |
| REL 223 | The Qur'an (Koran) | |
| REL 260 | Mystics and Saints in Islam | |
| REL 403 | Women in Muslim Societies | |
| REL 408 | Islam & Politics in Mid. East | |

| Code | Title | Hours |
|---|---|---|
| REL 481 | Muslim Ethics in Global Age | |
| REL 482 | Muslim-Christian Interactions | |
| Total Hours | | 18 |

## Program Features

Academic Level Undergraduate

Is this minor?

A Comprehensive study in a single discipline

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

N/A

## Budget

Are there No

budgetary implications for this revision?

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact to unit

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

### Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

### Technology

Will the program need additional technology beyond what is currently available for the unit?

No

### Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Arabic Studies |
| Program Code: | 5233 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 5233 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |

| | |
|---|---|
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/05/22 11:12 am):** Admin approval: Does not change total hours required/restrict students' options. |

Key: 381

Date Submitted: 12/15/21 8:38 am

# Viewing: 5714 : Turkish Studies Minor

Last approved: 08/28/19 11:00 am

Last edit: 01/05/22 11:15 am

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | Turkish Studies Minor |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1864 Head**
3. **SLCL Head**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/15/21 1:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 12/15/21 1:59 pm
   James Hye Suk Yoon (jyoon):
   Approved for 1864 Head
3. 12/15/21 2:26 pm
   Luisa-Elena Delgado (ldelgado):
   Approved for SLCL Head
4. 12/16/21 10:19 am
   Stephen Downie (sdownie):
   Approved for KV Dean
5. 12/16/21 10:20 am
   John Wilkin

(jpwilkin): Approved for University Librarian
6. 01/05/22 11:18 am
Kathy Martensen (kmartens): Approved for Provost

## History

1. Feb 19, 2019 by Deb Forgacs (dforgacs)
2. Aug 28, 2019 by Amy Elli (amyelli)

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Turkish Studies Minor |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | Linguistics |
| Sponsor Name | James Hye Suk Yoon |
| Sponsor Email | jyoon@illinois.edu |
| College Contact | Stephen R. Downie ~~Amy Elli~~ |
| College Contact Email | sdownie@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Ayse Ozcan

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Admin approval: Administrative Update to Curricula Turkish Studies Minor.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

REL 213: Intro to Islam - ACP has been deactivated as a course as of May 2020. Removing REL 213 from a long list of course options for the minor.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals*

*for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

The minor in Turkish Studies is designed for students interested in developing their understanding of Turkey as a complement to their disciplinary major. Completion of the minor requires at least 18 hours in applicable courses.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| ~~Language Requirement 1~~ | | ~~6~~ |
| Language Requirement (Students who test out of the advanced language requirement (405-406) must take six additional hours of advanced (300- or 400-level) coursework from the list of Turkey/Ottoman Empire electives.) | | 6 |
| TURK 405 | Advanced Turkish I | |
| TURK 406 | Advanced Turkish II | |
| Turkish Language & Culture | | 3 |
| TURK 270 | Language and Culture in Turkey | |
| Additional Courses related to Turkey/Ottoman Empire | | 9 |
| Chosen from the following list or from other applicable courses in consultation with the minor advisor: | | |
| ANTH 402 | Transnational Islam, Europe-US | |
| ANTH 488 | Modern Europe | |
| EURO 415 | Europe and the Mediterranean | |
| HIST 135 | History of Islamic Middle East | |
| HIST 335 | Middle East 1566-1914 | |
| HIST 337 | Middle East Since World War I | |
| HIST 356 | The Modern Balkans through Literature and Film | |

| Code | Title | Hours |
|---|---|---|
| HIST 396 | Special Topics (when focused on Turkey) | |
| HIST 439 | The Ottoman Empire | |
| HIST 466 | The Balkans | |
| FR 418 | Language & Minorities in Europe | |
| MUS 418 | Regional Studies in Musicology (when focused on Turkey) | |
| PS 152 | The New Middle East | |
| PS 347 | Gov & Pol of Middle East | |
| ~~REL 213~~ | ~~Course REL 213 Not Found~~ | |
| ~~or REL 214~~ | ~~Introduction to Islam~~ | |
| REL 214 | Introduction to Islam | |
| REL 223 | The Qur'an (Koran) | |
| REL 403 | Women in Muslim Societies | |
| REL 408 | Islam & Politics in Mid. East | |
| REL 480 | Islamic Law | |
| REL 482 | Muslim-Christian Interactions | |
| REES 201 | Introduction to Eastern Europe | |
| SOC 483 | Middle Eastern Societies & Cultures | |
| Study Abroad course(s) relevant to Turkey (maximum of 3 hours; must be approved by the advisor) | | |
| TURK 490 | Special Topics in Turkish | |
| Total Hours | | 18 |

~~1~~

*~~Students who test out of the advanced language requirement (405-406) must take six additional hours of advanced (300- or 400-level) coursework from the list of Turkey/Ottoman Empire electives.~~*

## Program Features

Academic Level Undergraduate

Is this minor?
A Comprehensive study in a single discipline

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?
No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

N/A

## Budget

| | |
|---|---|
| Are there budgetary implications for this revision? | No |

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact on unit.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Turkish Studies |
| Program Code: | 5714 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 5714 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/05/22 11:15 am):** Admin approval: No change in total hours required; does not restrict students' options. |

Key: 561

Date Submitted: 12/16/21 4:26 pm

# Viewing: 4038 : South Asian Studies Minor

Last edit: 01/06/22 2:45 pm

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | South Asian Studies Interdisciplinary Minor |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1954 Head**
3. **KV Dean**
4. **University Librarian**
5. **Provost**
6. **Senate EPC**
7. Senate
8. U Senate Conf
9. Board of Trustees
10. IBHE
11. HLC
12. DMI

## Approval Path

1. 01/05/22 3:46 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/05/22 4:01 pm Wail Hassan (whassan): Approved for 1954 Head
3. 01/05/22 4:27 pm Stephen Downie (sdownie): Approved for KV Dean
4. 01/05/22 4:49 pm John Wilkin (jpwilkin): Approved for University Librarian
5. 01/06/22 2:49 pm Kathy Martensen (kmartens): Approved for Provost

Minor (ex. European Union Studies)

This proposal is for a:

Revision

## Administration Details

| | |
|---|---|
| Official Program Name | South Asian Studies Minor |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | S. Asian & MidEast Studies |
| Sponsor Name | Wail Hassan |
| Sponsor Email | whassan@illinois.edu |
| College Contact | Stephen R. Downie |
| College Contact Email | sdownie@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Angela Williams

Does this program have inter-departmental administration?

No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Fall 2022 |

Provide a brief, concise description (not justification) of your proposal.

Admin approval: Administrative Update to Curricula South Asian Studies Minor.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

REL 213: Intro to Islam-ACP has been deactivated as a course as of May 2020. Removing REL 213 from a long list of course options for the minor.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs — Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Fourth-semester course work in an area-relevant language. A course that meets this requirement and is currently offered on a regular basis is HNDI 404 (5 hours). The requirement may also be met by comparable courses in these and other South Asian and South Asia-related languages, taught at UIUC or at other universities, through online courses (where available), and through a proficiency examination. | | 3-5 |
| HIST/ANTH 130 | History of South Asia | 3 |
| ~~Courses on South Asian history, language, literature, culture, and society from the following list: 1~~ | | ~~12~~ |
| Courses on South Asian history, language, literature, culture, and society from the following list: (Other area-relevant courses may be substituted as they are offered, with approval of the advisor. These include courses in languages other than Hindi and independent study courses with South Asia teaching faculty and with appropriate topics, such as the following ANTH 390, HIST 490, LING 290, PS 490, REL 390, SOC 390. Students wanting to take such independent study courses need to get permission from the instructor; not more than two independent study courses may be taken to meet the degree requirements.) | | 12 |
| ANTH 499 | Topics in Anthropology (appropriate sections) | |
| ASST 398 | Colloquium in Asian Studies (appropriate sections) | |
| CWL 189 | Literatures of the Islamic World (appropriate sections) | |
| or CWL 190 | Modern Asian and African Literatures | |
| ECON 450 | Development Economics (appropriate sections) | |
| HNDI 405 | Advanced Hindi I | |
| & HNDI 406 | and Advanced Hindi II | |
| HNDI 408 | Intro to South Asian Lit | |
| HIST 430 | India from Colony to Nation | |
| LA/ASST 218 | S Asian Cultural Landscapes | |
| PS/ASST 346 | Gov & Pol of South Asia | |
| REL 104 | Asian Mythology | |
| ~~REL 213~~ | ~~Course REL 213 Not Found~~ | |
| REL 260 | Mystics and Saints in Islam | |
| REL 286 | Introduction to Hinduism | |
| REL 494 | Topics in Religious Thought | |
| REL 403 | Women in Muslim Societies | |
| REL 408 | Islam & Politics in Mid. East | |
| Total Hours | | 18-20 |

~~1~~

~~*Other area-relevant courses may be substituted as they are offered, with approval of the advisor. These include courses in languages other than Hindi and independent study courses with South Asia teaching faculty and with appropriate topics, such as the following ANTH 390%7C, HIST 490%7C, LING 290%7C, PS 490%7C, REL 390%7CCode, SOC 390%7C. Students wanting to take such independent study courses need to get permission from the instructor; not more than two independent study courses may be taken to meet the degree requirements.*~~

## Program Features

Academic Level Undergraduate

Is this minor?

A Comprehensive study in a single discipline

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

N/A

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact on unit.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | South Asian Studies |
| Program Code: | 4038 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 4038 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |

| | |
|---|---|
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/06/22 2:44 pm):** Administrative approval: No change to total hours required/doesn't restrict students' options. |

Key: 252

Date Submitted: 12/16/21 11:09 am

# Viewing: List: UG - Game Studies & Design : Game Studies & Design Minor, UG - Electives List

Last approved: 12/13/21 11:55 am

Last edit: 01/05/22 11:19 am

Changes proposed by: Lisa Bievenue

| | |
|---|---|
| Catalog Pages Using this Program | Game Studies & Design Minor, UG |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1468 Head**
3. **LP Dean**
4. **University Librarian**
5. **Provost**
6. **Senate EPC**
7. Senate
8. U Senate Conf
9. Board of Trustees
10. IBHE
11. HLC
12. DMI

## Approval Path

1. 12/16/21 3:24 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/16/21 3:58 pm Karin Readel (kereadel): Approved for 1468 Head
3. 12/16/21 4:49 pm Emily Knox (knox): Approved for LP Dean
4. 12/16/21 5:09 pm John Wilkin (jpwilkin): Approved for University Librarian
5. 01/05/22 11:40 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Dec 13, 2021 by Lisa Bievenue (bievenue)

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Game Studies & Design Minor, UG - Electives List |
| Sponsor College | Information Science, School of |
| Sponsor Department | Informatics |
| Sponsor Name | Lisa Bievenue |
| Sponsor Email | bievenue@illinois.edu |
| College Contact | Emily Knox |
| College Contact Email | knox@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

| | |
|---|---|
| Effective Catalog Term | Spring 2022 |

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Update the elective list with some new AHS courses, and also provided the new permanent course numbers for classes which were previously taught as special topics courses.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

These changes will make the elective list current and accurate with course numbers.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

See Proposal 1069

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs GSD- Elective Revisions.docx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

The elective coursework requirement allows students either to generalize across game studies fields, or to specialize by taking elective courses concentrated in one of our nine advising pathways which correspond to different professional specializations in the game industry and in game-related academic research. The current advising pathways are Design, Programming, Education & Research, Film & Media, Music, Sound & Dance, Narrative, Play Studies, Theater, and Visual Arts. Students do not need to declare a pathway and may even elect to take courses from three different pathways if they wish a general survey of the field. Pathways do not need to be declared.

Only one experiential (independent study, studio, internship, or capstone) course will be accepted as an elective towards the minor degree. ~~See Proposal 1069~~

Statement for Programs of Study Catalog

## From the College of Applied Health Sciences

Course List

| Code | Title | Hours |
|---|---|---|
| COMMUNITY HEALTH | | |
| CHLH 441 | Health Behavior and Technology | 3 or 4 |
| KINESIOLOGY | | |
| KIN 346 | Case Study: Endless Summer | 3 |
| KIN 369 | Coaching Strategies | 3 |
| KIN 442 | Body, Culture & Society | 3 or 4 |
| KIN 474 | Tech-Driven Health Intervention | 3 or 4 |
| RECREATION, SPORT AND TOURISM | | |
| RST 199 | Undergraduate Open Seminar (Section ESF only) | 1 to 5 |

## From the College of Education

Course List

| Code | Title | Hours |
|---|---|---|
| CURRICULUM & INSTRUCTION | | |

| Code | Title | Hours |
|---|---|---|
| CI 210 | Introduction to Digital Learning Environments (Can only be used for either a foundational required course OR an elective course, but not both) | 3 |
| CI 437 | Educational Game Design | 3 or 4 |
| CI 439 | Critiques of Educational Technology | 3 or 4 |
| CI 483 | Computer Systems for CS Teachers | 2 |
| CI 499 | Issues and Development in Education (Sections "Attention Learning & Tech" and "Technology Apps for Teachers" only) | 2 to 4 |

## From the College of Fine & Applied Arts

Course List

| Code | Title | Hours |
|---|---|---|
| FINE & APPLIED ARTS | | |
| FAA 499 | Special Topics (Section "Escape Rooms as Interactive Theatre" only) | 0 to 4 |
| ART | | |
| ART 310 | Design Thinking | 3 |
| ART 350 | Writing with Video | 3 |
| ART 499 | Special Topics in Art | 1 to 4 |
| ARTD 318 | Interaction Design | 2 |
| ARTD 418 | Advanced Interaction Design | 3 |
| ARTD 451 | Ethics of a Designer in a Global Economy | 4 |
| ARTD 499 | Special Topics in Design | 1 to 4 |
| ARTJ 301 | Manga: The Art of Image and Word | 3 |
| ARTJ 302 | Intro to Japanese Animation | 3 |
| ARTS 320 | Fashion and Textiles Design | 3 |
| ARTS 340 | The Art of 3D Imaging | 3 |
| ARTS 444 | Interaction II | 3 or 4 |
| ARTS 445 | Special Topics in New Media | 3 or 4 |
| ARTS 499 | Special Topics in Studio Art | 1 to 4 |
| DANCE | | |
| DANC 256 | Choreographic Laboratory I (Section JT only) | 1 to 2 |
| DANC 268 | Context I: Music Theory for Dancers | 3 |
| DANC 330 | Dance Documentation | 1 |
| ~~DANC 400~~ | ~~Course DANC 400 Not Found~~ | ~~1~~ |
| DANC 451 | Ind Study and Special Topics (Section "Social Impact thru Arts Tech" only) | 1 to 4 |
| DANC 465 | Screendance | 3 |
| MUSIC | | |
| MUS 209 | Music, Sound, Technology (Acoustics for Musicians) | 3 |
| MUS 407 | Elect Music Techniques I | 3 |
| MUS 409 | Elec Music Techniques II | 2 |
| MUS 499 | Proseminar in Music (Sections "Audio Coding with SuperCollider", "Audio Recording Techniques I", and "Critical Audio Listening for Audio Engineers" only) | 0 to 4 |
| THEATRE | | |
| THEA 409 | Stage Management Workshop | 3 or 4 |
| THEA 410 | Dramaturgs Workshop | 3 or 4 |
| THEA 411 | Playwrights' Workshop | 3 |

| Code | Title | Hours |
|---|---|---|
| THEA 418 | Devising Social Issues Theatre | 3 or 4 |
| THEA 426 | History of Decor | 3 |
| THEA 427 | Scenic Painting I | 3 |
| THEA 428 | Scenic Painting II | 3 |
| THEA 445 | Costume History I | 3 |
| THEA 448 | Costume Crafts | 3 |
| THEA 453 | Introduction to Theatre Sound | 3 |
| THEA 455 | Sound Design II | 3 |
| THEA 456 | Properties Design | 3 |
| THEA 461 | Introduction to Media Design | 3 or 4 |

## From the Grainger College of Engineering

Course List

| Code | Title | Hours |
|---|---|---|
| COMPUTER SCIENCE | | |
| CS 418 | Interactive Computer Graphics | 3 or 4 |
| CS 419 | Production Computer Graphics | 3 or 4 |
| CS 498 | Special Topics (Section "Game Development" only) | 1 to 4 |

## From the School of Information Sciences

Course List

| Code | Title | Hours |
|---|---|---|
| GAME STUDIES & DESIGN | | |
| GSD 399 | Advanced Individual Study | 0 to 3 |
| GSD 403 | An Introduction to Top Down Video Game Design | 3 |
| GSD 405 | Introduction to the Video Game Development Process | 3 |
| GSD 409 | Design & Programming of Narrative Games & Simulations | 3 or 4 |
| INFORMATICS | | |
| INFO 303 | Writing Across Media | 3 |
| ~~INFO 403~~ | ~~Course INFO 403 Not Found~~ | ~~3~~ |
| INFO 416 | Makerspace: Game Studies | 3 or 4 |
| INFO 418 | Makerspace: Escape Rooms | 3 or 4 |
| INFO 490 | Special Topics (Only sections: "Musical Informatics", "Computer Music") | 1 to 4 |
| INFORMATION SCIENCES | | |
| IS 145 | Mapping Inequalities | 3 |
| IS 199 | Undergraduate Open Seminar (Section SHG only; Can only be used for either a foundational required course OR an elective course, but not both ) | 1 to 5 |
| IS 357 | Introduction to Data Storytelling | 3 |
| IS 410 | Storytelling | 2 to 4 |
| IS 426 | Museum Informatics | 4 |
| IS 490 | Topics in Info Foundations (Section "Playful Design Methods" only) | 2 to 4 |

## From the College of Liberal Arts & Sciences

Course List

| Code | Title | Hours |
|---|---|---|
| ENGLISH | | |

| Code | Title | Hours |
|---|---|---|
| ENGL 253 | Topics in Literature and New Media | 3 |
| ENGL 277 | Gender in Gaming | 3 |
| ENGL 396 | English Honors Seminar (Section "Games Telling Stories" only) | 3 |

## From the College of Media

Course List

| Code | Title | Hours |
|---|---|---|
| ADVERTISING | | |
| ADV 390 | Content Creation | 3 |
| JOURNALISM | | |
| JOUR 101 | Interactive Media & You | 3 |
| JOUR 430 | Augmented and Virtual Reality | 3 or 4 |
| JOUR 460 | Special Topics (Section "Basic Video Production" only) | 1 to 4 |
| MEDIA AND CINEMA STUDIES | | |
| MACS 323 | Studies Film/Media Production | 1 to 3 |
| MACS 326 | New Media, Culture & Society | 3 |
| MACS 370 | Cinematography and Sound Design | 4 |
| MACS 371 | Editing and Post-production for Cinema | 4 |
| MACS 372 | Screenwriting | 3 |
| MACS 480 | Advanced Filmmaking | 3 |
| MACS 481 | Advanced Filmmaking Studio | 3 |
| MACS 485 | Making Video Essays | 3 or 4 |
| MACS 496 | Advanced Media/Cinema Topics (Sections "Collaboration in Interactive and Immersive Media" and "Advanced Media Practicum" only) | 3 or 4 |

## Program Features

Academic Level Undergraduate

Is this minor?

An interdisciplinary study focusing on a single theme

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

Blended - A single program in which students are required to take part of the curriculum on campus and another part in a different location or online.

Describe the use of this delivery method:

see proposal 1069

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

NA

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

these changes clarify what courses are currently available and meet requirements of the GSD minor.

## Budget

| | |
|---|---|
| Are there budgetary implications for this revision? | No |

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

| | |
|---|---|
| Additional Budget Information | See proposal 1069 |

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

See proposal 1069

Will the unit need to seek campus or other external resources?

No

Attach letters of support

# Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

At present, these courses exist. Over the several years that those courses have been developed, taught, and refined, the University Library's resources proved sufficient to support the developing programs. In our discussions with personnel in the Library, the understanding and support for popular culture, gaming, and game design includes members of the Library's faculty, with one already holding degrees in 3D Animation/Game Design and Media Studies.

In addition to housing an extensive collection of games in the Undergraduate Library, the Library provides access to the most widely recognized, top journals in game studies. These include: ACM Transactions on Modeling and Computer Simulation, Computers in Entertainment: CIE, EAI endorsed transactions on serious games, Eludamos journal for computer game culture, Entertainment Computing, GAME: The Italian Journal of Game Studies, Games and Culture, Games for Health Journal, JMIR Serious Games, International Journal of Serious Games, Loading…, New Media & Society, Science, Technology, & Human Values, and Simulation and Gaming.

Moreover, commercial resources are supplemented by other, relevant titles that are open-access and available on-line:
• Analog Game Studies – open access at https://press.etc.cmu.edu/index.php/product/analog-game-studies-volume-i/
• International Journal of Computer Game Research – open access at https://gamestudies.org
• Transactions of the Digital Games Research Association – open access at http://todigra.org/
• Well Played – open access at https://press.etc.cmu.edu/index.php/publication-tag/well-played/

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | |
| Program Code: | List: UG - Game Studies & Design |

| Minor Code | Conc Code | Degree Code | Major Code |
| --- | --- | --- | --- |

| | |
| --- | --- |
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/05/22 11:18 am):** Administrative approval: Does not change total required hours; does not restrict students' options. |

Key: 1070

**CURRENT LIST:**

## From the College of Applied Health Sciences

| Code | Title | Hours |
|---|---|---|
| **RECREATION, SPORT AND TOURISM** | | |
| RST 199 | Undergraduate Open Seminar (Section ESF only) | 1 to 5 |

## From the College of Education

| Code | Title | Hours |
|---|---|---|
| **CURRICULUM & INSTRUCTION** | | |
| CI 210 | Introduction to Digital Learning Environments (Can only be used for either a foundational required course OR an elective course, but not both) | 3 |
| CI 437 | Educational Game Design | 3 or 4 |
| CI 439 | Critiques of Educational Technology | 3 or 4 |
| CI 483 | Computer Systems for CS Teachers | 2 |
| CI 499 | Issues and Development in Education (Sections "Attention Learning & Tech" and "Technology Apps for Teachers" only) | 2 to 4 |

## From the College of Fine & Applied Arts

| Code | Title | Hours |
|---|---|---|
| **FINE & APPLIED ARTS** | | |
| FAA 499 | Special Topics (Section "Escape Rooms as Interactive Theatre" only) | 0 to 4 |
| **ART** | | |
| ART 310 | Design Thinking | 3 |
| ART 350 | Writing with Video | 3 |
| ART 499 | Special Topics in Art | 1 to 4 |
| ARTD 318 | Interaction Design | 2 |
| ARTD 418 | Advanced Interaction Design | 3 |
| ARTD 451 | Ethics of a Designer in a Global Economy | 4 |
| ARTD 499 | Special Topics in Design | 1 to 4 |
| ARTJ 301 | Manga: The Art of Image and Word | 3 |
| ARTJ 302 | Intro to Japanese Animation | 3 |
| ARTS 320 | Fashion and Textiles Design | 3 |
| ARTS 340 | The Art of 3D Imaging | 3 |
| ARTS 444 | Interaction II | 3 or 4 |
| ARTS 445 | Special Topics in New Media | 3 or 4 |
| ARTS 499 | Special Topics in Studio Art | 1 to 4 |
| **DANCE** | | |

| Code | Title | Hours |
|---|---|---|
| DANC 256 | Choreographic Laboratory Intermediate (Section JT only) | 1 to 2 |
| DANC 268 | Music Theory for Dancers | 3 |
| DANC 330 | Dance Documentation | 1 |
| DANC 400 | Viewing Dance | 1 |
| DANC 451 | Ind Study and Special Topics (Section "Social Impact thru Arts Tech" only) | 1 to 4 |
| DANC 465 | Screendance | 3 |
| **MUSIC** | | |
| MUS 209 | Music, Sound, Technology (Acoustics for Musicians) | 3 |
| MUS 407 | Elect Music Techniques I | 3 |
| MUS 409 | Elec Music Techniques II | 2 |
| MUS 499 | Proseminar in Music (Sections "Audio Coding with SuperCollider", "Audio Recording Techniques I", and "Critical Audio Listening for Audio Engineers" only) | 0 to 4 |
| **THEATRE** | | |
| THEA 409 | Stage Management Workshop | 3 or 4 |
| THEA 410 | Dramaturgs Workshop | 3 or 4 |
| THEA 411 | Playwrights' Workshop | 3 |
| THEA 418 | Devising Social Issues Theatre | 3 or 4 |
| THEA 426 | History of Decor | 3 |
| THEA 427 | Scenic Painting I | 3 |
| THEA 428 | Scenic Painting II | 3 |
| THEA 445 | Costume History I | 3 |
| THEA 448 | Costume Crafts | 3 |
| THEA 453 | Introduction to Theatre Sound | 3 |
| THEA 455 | Sound Design II | 3 |
| THEA 456 | Properties Design | 3 |
| THEA 461 | Introduction to Media Design | 3 or 4 |

## From the Grainger College of Engineering

| Code | Title | Hours |
|---|---|---|
| **COMPUTER SCIENCE** | | |
| CS 418 | Interactive Computer Graphics | 3 or 4 |
| CS 419 | Production Computer Graphics | 3 or 4 |
| CS 498 | Special Topics (Section "Video Game Development" only) | 1 to 4 |

## From the School of Information Sciences

| Code | Title | Hours |
|---|---|---|
| **INFORMATICS** | | |
| INFO 303 | Writing Across Media | 3 |
| INFO 403 | An Introduction to Top Down Video Game Design | 3 |
| INFO 490 | Special Topics (Only sections: "Video Game Dev Process", "Makerspace: Game Studies", "Escape Room Design", "Design & Programming of Narrative Games", "Programming & Design of Interactive Fiction", "Musical Informatics", "Computer Music") | 1 to 4 |
| **INFORMATION SCIENCES** | | |
| IS 145 | Mapping Inequalities | 3 |
| IS 199 | Undergraduate Open Seminar (Section SHG only; Can only be used for either a foundational required course OR an elective course, but not both, ) | 1 to 5 |
| IS 357 | Introduction to Data Storytelling | 3 |
| IS 410 | Storytelling | 2 to 4 |
| IS 426 | Museum Informatics | 4 |
| IS 490 | Topics in Info Foundations (Section "Playful Design Methods" only) | 2 to 4 |

## From the College of Liberal Arts & Sciences

| Code | Title | Hours |
|---|---|---|
| **ENGLISH** | | |
| ENGL 253 | Topics in Literature and New Media | 3 |
| ENGL 277 | Gender in Gaming | 3 |
| ENGL 396 | English Honors Seminar (Section "Games Telling Stories" only) | 3 |

## From the College of Media

| Code | Title | Hours |
|---|---|---|
| **ADVERTISING** | | |
| ADV 390 | Content Creation | 3 |
| **JOURNALISM** | | |
| JOUR 101 | Interactive Media & You | 3 |
| JOUR 430 | Augmented and Virtual Reality | 3 or 4 |
| JOUR 460 | Special Topics (Section "Basic Video Production" only) | 1 to 4 |
| **MEDIA AND CINEMA STUDIES** | | |
| MACS 323 | Studies Film/Media Production | 1 to 3 |
| MACS 326 | New Media, Culture & Society | 3 |
| MACS 370 | Cinematography and Sound Design | 4 |
| MACS 371 | Editing and Post-production for Cinema | 4 |
| MACS 372 | Screenwriting | 3 |

| Code | Title | Hours |
|---|---|---|
| MACS 480 | Advanced Filmmaking | 3 |
| MACS 481 | Advanced Filmmaking Studio | 3 |
| MACS 485 | Making Video Essays | 3 or 4 |
| MACS 496 | Advanced Media/Cinema Topics (Sections "Collaboration in Interactive and Immersive Media" and "Advanced Media Practicum" only) | 3 or 4 |

# PROPOSED NEW ELECTIVE LIST

## From the College of Applied Health Sciences

| Code | Title |
|---|---|
| **COMMUNITY HEALTH** | |
| CHLH 441 | Health Behavior and Technology **- ADDED** |
| **KINESIOLOGY** | |
| KIN 346 | Case Study: Endless Summer **- ADDED** |
| KIN 369 | Coaching Strategies**- ADDED** |
| KIN 442 | Body, Culture & Society**- ADDED** |
| KIN 474 | Tech-Driven Health Intervention**- ADDED** |
| **RECREATION, SPORT AND TOURISM** | |
| RST 199 | Undergraduate Open Seminar (Section ESF only) |

## From the College of Education

| Code | Title |
|---|---|
| **CURRICULUM & INSTRUCTION** | |
| CI 210 | Introduction to Digital Learning Environments (Can only be used for either a foundational required course OR an elective course, but not both) |
| CI 437 | Educational Game Design |
| CI 439 | Critiques of Educational Technology |
| CI 483 | Computer Systems for CS Teachers |
| CI 499 | Issues and Development in Education (Sections "Attention Learning & Tech" and "Technology Apps for Teachers" only) |

Course List

## From the College of Fine & Applied Arts

| Code | Title |
|---|---|
| **FINE & APPLIED ARTS** | |
| FAA 499 | Special Topics (Section "Escape Rooms as Interactive Theatre" only) |
| **ART** | |
| ART 310 | Design Thinking |
| ART 350 | Writing with Video |
| ART 499 | Special Topics in Art |
| ARTD 318 | Interaction Design |
| ARTD 418 | Advanced Interaction Design |
| ARTD 451 | Ethics of a Designer in a Global Economy |
| ARTD 499 | Special Topics in Design |
| ARTJ 301 | Manga: The Art of Image and Word |
| ARTJ 302 | Intro to Japanese Animation |
| ARTS 320 | Fashion and Textiles Design |
| ARTS 340 | The Art of 3D Imaging |
| ARTS 444 | Interaction II |
| ARTS 445 | Special Topics in New Media |
| ARTS 499 | Special Topics in Studio Art |
| **DANCE** | |
| DANC 256 | Choreographic Laboratory I (Section JT only) |
| DANC 268 | Context I: Music Theory for Dancers |
| DANC 330 | Dance Documentation |
| DANC 400 | Course DANC 400 Not Found - **DELETED** |
| DANC 451 | Ind Study and Special Topics (Section "Social Impact thru Arts Tech" only) |
| DANC 465 | Screendance |
| **MUSIC** | |
| MUS 209 | Music, Sound, Technology (Acoustics for Musicians) |
| MUS 407 | Elect Music Techniques I |
| MUS 409 | Elec Music Techniques II |
| MUS 499 | Proseminar in Music (Sections "Audio Coding with SuperCollider", "Audio Recordin Techniques I", and "Critical Audio Listening for Audio Engineers" only) |
| **THEATRE** | |
| THEA 409 | Stage Management Workshop |
| THEA 410 | Dramaturgs Workshop |

| Code | Title |
|---|---|
| THEA 411 | Playwrights' Workshop |
| THEA 418 | Devising Social Issues Theatre |
| THEA 426 | History of Decor |
| THEA 427 | Scenic Painting I |
| THEA 428 | Scenic Painting II |
| THEA 445 | Costume History I |
| THEA 448 | Costume Crafts |
| THEA 453 | Introduction to Theatre Sound |
| THEA 455 | Sound Design II |
| THEA 456 | Properties Design |
| THEA 461 | Introduction to Media Design |

Course List

## From the Grainger College of Engineering

| Code | Title |
|---|---|
| **COMPUTER SCIENCE** | |
| CS 418 | Interactive Computer Graphics |
| CS 419 | Production Computer Graphics |
| CS 498 | Special Topics (Section "Game Development" only)- **TITLE EDITED** |

Course List

## From the School of Information Sciences

| Code | Title |
|---|---|
| **GAME STUDIES & DESIGN** | |
| GSD 399 | Advanced Individual Study**- ADDED** |
| GSD 403 | An Introduction to Top Down Video Game Design**- ADDED** |
| GSD 405 | Introduction to the Video Game Development Process**- ADDED** |
| GSD 409 | Design & Programming of Narrative Games & Simulations**- ADDED** |
| **INFORMATICS** | |
| INFO 303 | Writing Across Media |
| INFO 403 | Course INFO 403 Not Found **DELETED** |
| INFO 416 | Makerspace: Game Studies**- ADDED** |
| INFO 418 | Makerspace: Escape Rooms**- ADDED** |
| INFO 490 | Special Topics (Only sections: "Musical Informatics", "Computer Music")- **EDITED** |
| **INFORMATION SCIENCES** | |
| IS 145 | Mapping Inequalities |

| Code | Title |
|---|---|
| IS 199 | Undergraduate Open Seminar (Section SHG only; Can only be used for either a foundational required course OR an elective course, but not both ) |
| IS 357 | Introduction to Data Storytelling |
| IS 410 | Storytelling |
| IS 426 | Museum Informatics |
| IS 490 | Topics in Info Foundations (Section "Playful Design Methods" only) |

Course List

## From the College of Liberal Arts & Sciences

| Code | Title |
|---|---|
| **ENGLISH** | |
| ENGL 253 | Topics in Literature and New Media |
| ENGL 277 | Gender in Gaming |
| ENGL 396 | English Honors Seminar (Section "Games Telling Stories" only) |

Course List

## From the College of Media

| Code | Title |
|---|---|
| **ADVERTISING** | |
| ADV 390 | Content Creation |
| **JOURNALISM** | |
| JOUR 101 | Interactive Media & You |
| JOUR 430 | Augmented and Virtual Reality |
| JOUR 460 | Special Topics (Section "Basic Video Production" only) |
| **MEDIA AND CINEMA STUDIES** | |
| MACS 323 | Studies Film/Media Production |
| MACS 326 | New Media, Culture & Society |
| MACS 370 | Cinematography and Sound Design |
| MACS 371 | Editing and Post-production for Cinema |
| MACS 372 | Screenwriting |
| MACS 480 | Advanced Filmmaking |
| MACS 481 | Advanced Filmmaking Studio |
| MACS 485 | Making Video Essays |
| MACS 496 | Advanced Media/Cinema Topics (Sections "Collaboration in Interactive and Immersive Media" and "Advanced Media Practicum" only) |

Date Submitted: 12/13/21 2:49 pm

# Viewing: 10KR0156BLA : Landscape Architecture, BLA

Last approved: 02/26/20 6:16 pm

Last edit: 01/31/22 9:09 am

Changes proposed by: Lori Davis

| | |
|---|---|
| Catalog Pages Using this Program | Landscape Architecture, BLA |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1569 Committee Chair**
3. **1569 Head**
4. **KR Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/14/21 9:11 am Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/14/21 9:28 am Lori Davis (drlori): Approved for 1569 Committee Chair
3. 01/06/22 2:15 pm David Hays (dlhays): Approved for 1569 Head
4. 01/07/22 9:24 am Nicole Turner (nicturn): Approved for KR Dean
5. 01/07/22 9:26 am John Wilkin (jpwilkin): Approved for University

Librarian
6. 01/18/22 8:30 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Mar 21, 2019 by Deb Forgacs (dforgacs)
2. May 7, 2019 by Linda Robbennolt (weasel)
3. Feb 26, 2020 by Nicole Turner (nicturn)

Major (ex. Special Education)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Landscape Architecture, BLA |
| Sponsor College | Fine & Applied Arts |
| Sponsor Department | Landscape Architecture |
| Sponsor Name | Lori Davis |
| Sponsor Email | drlori@illinois.edu |
| College Contact | Nicole Turner |
| College Contact Email | nicturn@illinois.edu |
| College Budget Officer | Gregory Anderson |
| College Budget Officer Email | gnanders@illinois.edu |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

1569 - Committee Chair

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the BLA:

1. The 5-credit hour Professional Internship course (LA 345) requirement will be eliminated, and the credit hours distributed across the curriculum.

2. The 5 supporting elective categories (Communication, Environment, History, Technique, and Social/Cultural Aspects of Design) totaling 15 credit hours will be eliminated.

3. The 20 credit hours gained from #1 and #2 will be distributed as follows: 18 hours to the newly proposed Focused Electives (see Program Justification); 2 hours folded back into free electives or general education courses.

4. Change GEOG 103 to GGIS 103 (due to rubric change in system).

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

N/A

## Program Justification

Why are these changes necessary?

A professional internship is not required by the BLA program's accreditors, Council of Landscape Architecture Registration Board (CLARB). The availability of internships is dependent on economic fluctuations in the market, and the department has no mechanism to ensure all students can secure an internship position. The department meets the accreditation requirement through professional office visits, visiting practitioners, and department-wide project charrettes.

The current supporting elective structure is cumbersome. While the list of approved courses looks impressive and the courses are still in courses of instruction, many of them are no longer offered with any regularity. The list would require constant updates to include many exciting and more relevant new course offerings. The structure is inflexible, offering little flexibility in exploration or specialization. The proposed approach is at once more resilient relative to evolving priorities of our field, more responsive to the unique interests of individual students, and easier to administer. Furthermore, the requirement of a single course in "social/cultural aspects of design" implies that these aspects of design are separate other courses throughout the curriculum.

The number of credit hours will remain 124 to meet external accreditation expectations.

All BLA students will be required to develop a Plan of Study including a minimum of 18 hours of Focused Electives identified in consultation with the Academic Affairs Coordinator. At least 6 hours of 300-400 level course work will be required. The Focused Electives may be in the form of a campus approved minor or an intentionally identified set of courses. The Academic Affairs Coordinator will submit each student's Plan of Study to the College Records Officer during the year before graduation (typically referred to as "junior" year).

The Focused Elective structure allows students to identify and pursue a broader range of interests tailored to their varied professional goals. This will allow students more flexibility and self-determination.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

Yes

Required courses

Explain how the inclusion or removal of the

courses/subjects
listed above
impacts the
offering
departments.

Approved supporting electives included courses from 23 departments across campus. The impact on each department will be minimal. As a courtesy, the following email will be sent to all 23 departments:

UNIT
head of department:
director of undergraduate studies:

Subject: Outreach Regarding Landscape Architecture Major Elective Lists

Hello xx,

I hope this e-mail finds you well. I am reaching out to inform you the Department of Landscape Architecture in the College of Fine & Applied Arts has proposed the removal of the BLA supporting elective lists, which currently includes the following courses from your unit: [insert]. This proposal is submitted for the 2022-2023 catalog year.

The proposal removes the four categories of Supporting Electives (listed here) and instead proposes 18 credit hours of Focused Electives (including the option of completing a minor), with 6 hours at the 300/400 level and selected in consultation with the Landscape Architecture advisor. We will continue to be supportive of students completing minors, certificates, and courses in your unit.

If you have any questions, please do not hesitate to reach out to me.

Sincerely,

David L. Hays
Professor and Brenton H. and Jean B. Wadsworth Head

Attach letters of
support or
acknowledgement
from other
departments.

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

Our stated learning objectives for BLA students are as follows (http://catalog.illinois.edu/undergraduate/faa/landscape-architecture-bla/learning-outcomes/):

• Knowledge & Reasoning. Acquire and apply broad and deep knowledge across academic disciplines and fields and use this knowledge to develop design proposals.

• Natural World. Use knowledge of natural resource opportunities and constraints that impact land use and design decisions and activities.

• Social Awareness. Develop and use an understanding of social and cultural influences on human behavior and the social, political, economic, and legal institutions that influence land-use and design decisions.

• Creative Inquiry and Discovery. Employ creative inquiry, a range of analytical skills, and general knowledge to develop design proposals, solve problems, generate new ideas, and produce creative work.

• Responsibility and Leadership. Develop and demonstrate a sense of responsibility to the land and the people for whom we design.

Sasaki Day is the single most important assessment tool that we have, and we conduct it as a faculty together with external design critics so that we can gain an objective perspective on how the students are doing, and thus how we as a program are doing. Students are invited to post work; faculty develop a short list of students to present on the day itself; selected students prepare 5-minute presentations of the problem, methodology, data, analysis, conceptualization and representation. The Sasaki Lecturer and members of the Resource Committee serve as reviewers and select the winning projects.

Course instructors administer desk critiques. For pin-ups and reviews, the instructors invite faculty from inside the department, faculty from other university units, practitioners, affiliates with specialized expertise, and MLA and PhD students.

The evaluation of student performance is the responsibility of individual faculty members in their respective courses. Department oversight of student performance is by means of monitoring grade point averages.

Progress Rule: In the curriculum, normal progress towards the degree is imperative. A student failing to complete any required course, in both landscape architecture and non-LA required courses, more than one semester later than the time designated in the curriculum may be denied registration in landscape architectural courses until the deficiency is corrected.

GPA Rule: Continuing students must have a minimum 2.0 all-university grade point average in order to remain as a student in good standing in the program.

Is the career/profession for graduates of this program regulated by the State of Illinois?

Yes ~~No~~

If yes, please describe.

From the IDFPR website:
Please note, as of August 6, 2021, a new Landscape Architect Act has been signed into law by the Governor and is effective immediately. As a result, the use of the title of "registered landscape architect" and other iterations are once again protected under the Act and regulated by official registration issued by the Department of Financial and Professional Regulation.

Updates for this profession will be posted on the Department website as information becomes available.

The Department thanks you in advance for your patience as we work to facilitate the re-registration of this profession, promulgate the applicable Administrative Rules and provide instructions on how to obtain registration.

Should you have any additional questions, please feel free to contact the Department at 1-800-560-6420.

See: https://www.idfpr.com/profs/LandScapeArch.asp

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs — Copy of BLA Curriculum Comparison 12-14-21.xlsx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

for the degree of Bachelor of Landscape Architecture
department website: https://landarch.illinois.edu/

department faculty: https://landarch.illinois.edu/faculty/

overview of college admissions & requirements: http://catalog.illinois.edu/schools/faa/academic-units/
college website: https://faa.illinois.edu/

email: ladept@illinois.edu
The department's administrative office, upper-level studios, faculty offices, and classrooms are located in Temple Hoyne Buell Hall. The department also has a studio is located in Mumford Hall.

Statement for Programs of Study Catalog

## General Education Requirements

| Course List | | |
|---|---|---|
| Code | Title | Hours |
| Some courses may fulfill multiple General Education categories. Courses may also fulfill both major requirements and Gen Ed categories. | | |
| Composition I | | 4 |
| Advanced Composition (LA 314 fulfills) | | |
| Quantitative Reasoning I (specific course required): | | 3 |
| STAT 100 | Statistics | |
| or MATH 115 | Preparation for Calculus | |
| Quantitative Reasoning II | | 3 |
| Humanities and the Arts (LA 314 fulfills) | | |
| ~~Humanities and the Arts (some courses in Social/Cultural Factors in Design Elective category will fulfill this)~~ | | ~~0-3~~ |
| Humanities and the Arts | | 3 |
| Cultural Studies: Western Comparative Cultures (LA 314 fulfills) | | |
| Cultural Studies: U.S. Minority Culture(s) | | 3 |
| ~~Cultural Studies: Non-Western Cultures (some courses in Social/Cultural Factors in Design Elective category will fulfill this)~~ | | ~~0-3~~ |
| Cultural Studies: Non-Western Cultures | | 3 |
| Natural Sciences & Technology (specific courses required) | | 6-8 |
| ~~GEOG 103~~ | ~~Course GEOG 103 Not Found~~ | |
| ~~or GEOL 100~~ | ~~Planet Earth~~ | |
| GEOL 100 | Planet Earth | |
| or GGIS 103 | Earth's Physical Systems | |
| IB 103 | Introduction to Plant Biology | |
| or IB 105 | Environmental Biology | |
| Social and Behavioral Sciences | | 6 |
| Total | | 31-33 |

| Code | Title | Hours |
|---|---|---|
| Language Other than English 1 | | 0-12 |

**1**

*General Education Language Requirement: Options to satisfy this requirement are noted in the Course Explorer.*

## Landscape Architecture Curriculum

Course List

| Code | Title | Hours |
|---|---|---|
| College Orientation | | 1 |
| FAA 101 | Arts at Illinois | 1 |
| Construction, Plant Materials & Design, History, & Design Communications | | 29 |
| LA 101 | Introduction to Landscape Arch | 2 |
| LA 241 | Landform Design & Construction | 3 |
| LA 250 | Environmental Site Analysis | 3 |
| LA 280 | Design Communications I | 3 |
| LA 281 | Design Communications II | 3 |
| LA 314 | History of World Landscapes | 4 |
| LA 342 | Site Engineering | 4 |
| LA 343 | Landscape Construction | 4 |
| LA 452 | Natural Precedent in Planting | 3 |
| Design Studio Courses | | 30 |
| LA 233 | Foundation Design Studio | 5 |
| LA 234 | Site Design Studio | 5 |
| LA 335 | Community & Open Space Studio | 5 |
| LA 336 | Design Workshop Studio I | 5 |
| LA 437 | Regional Design Studio | 5 |
| LA 438 | Design Workshop Studio II | 5 |
| Professional Preparation | | 2 |
| ~~LA 345~~ | ~~Professional Internship~~ | ~~5~~ |
| LA 346 | Professional Practice | 2 |
| ~~Supporting Electives (chosen from list in tab above: three credit hours in each of the categories of history, communications, techniques, and environment)~~ | | ~~12~~ |
| ~~Social/Cultural Factors in Design Elective (pick one):~~ | | ~~3~~ |
| ~~LA 212~~ | ~~Water and Society~~ | |
| ~~LA 218~~ | ~~S Asian Cultural Landscapes~~ | |
| ~~LA 220~~ | ~~Exploring African Cities~~ | |
| ~~LA 221~~ | ~~History of the Prison~~ | |
| ~~LA 222~~ | ~~Islamic Gardens & Architecture~~ | |
| ~~LA 242~~ | ~~Nature and American Culture~~ | |
| ~~LA 270~~ | ~~Behavioral Factors in Design~~ | |
| ~~LA 470~~ | ~~Social/Cultural Design Issues~~ | |
| Focused Electives | | 18 |
| Focused electives are required of all BLA student to graduate and must be approved by the BLA Advisor during an advising appointment. | | |
| Urban & Regional Planning | | 3 |
| UP 101 | Introduction to City Planning | 3 |
| Horticulture | | 4 |
| ~~HORT 301~~ | ~~Course HORT 301 Not Found~~ | |

| Code | Title | Hours |
|---|---|---|
| LA 390 | Independent Study I (Woody Landscape Plants ) | 4 |

Course List

| Code | Title | Hours |
|---|---|---|
| Total Credits for BLA | | |
| General Education | | 31-33 |
| Language Other than English 1 | | 0-12 |
| Landscape Architecture Curriculum | | 87 |
| Free Electives | | 0-2 |
| Total Credit Hours Required | | 124 |

| | |
|---|---|
| Corresponding Degree | BLA Bachelor of Landscape Architecture |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |
| Does this major have transcripted concentrations? | No |

What is the typical time to completion of this program?

4 years

What are the minimum Total Credit Hours required for this program?

124

| | |
|---|---|
| CIP Code | 303301 - Sustainability Studies. |

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Admission Requirements

| | |
|---|---|
| Desired Effective Admissions Term | Fall 2022 |

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Office of Undergraduate Admissions determines the admissions criteria for the BLA.

Transfer Applicants: To be eligible for admission, they must have minimum 30 transferable hours and 2.50 GPA, and completed English composition, Pre-Calculus or Trigonometry, Physical Geography or Geology, Plant or Environmental Biology, Quantitative Reasoning 1, and 2 of the 3 campus-required units of foreign language. An introductory drawing or design course is strongly recommended.

Describe how critical academic functions such as admissions and student advising are managed.

The full time Academic Affairs Coordinator serves as primary contact and academic advisor for undergraduate students in Landscape Architecture with attention to admissions, visas, academic deadlines, program requirements. The Academic Affairs Coordinator also oversees recruitment initiatives for the BLA.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

We believe that these revisions may help grow enrollment and the number of degrees awarded.

Estimated Annual Number of Degrees Awarded

| Year One Estimate | 5th Year Estimate (or when fully implemented) |
|---|---|
| | |

What is the matriculation term for this program?

Fall

## Budget

Are there budgetary implications for this revision?

Yes

Please describe the budgetary implications for this revision, addressing applicable personnel, facilities, technology and supply costs.

With the elimination of LA 345 (5 hours) summer tuition revenue will decrease minimally. In summer 2021, 2 BLA students were enrolled for 1 credit hour each. In summer 2020, no BLA enrolled in LA 345. In Summer 2019, 4 BLA students enrolled for 5 hours each. Therefore, after examining the number of students and credit hour enrollment the impact is minimal and both the unit and college budget office support this change. LA 345 was submitted to the BOT to offer a 0-hour internship which only charges a nominal fee. Students who elect to complete an internship for earned credit hours may continue to do so which would incur tuition.

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

This program proposal does not require additional resources which need to be financially supported.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Undergraduate, College of Fine & Applied Arts rate

Are you seeking a change in the tuition rate or differential for this program?

No

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

Faculty resources are sufficient to support the BLA program revisions.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Library collections, resources and services are sufficient to support the BLA program revisions.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | BLA:Lndscpe Architecture -UIUC |
| Program Code: | 10KR0156BLA |

| Minor Code | Conc Code | Degree Code | BLA | Major Code |
| --- | --- | --- | --- | --- |
| 0156 | | | | |

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date

Effective Date:

Attached Document Justification for this request

Program Reviewer Comments **Kathy Martensen (kmartens) (01/18/22 8:20 am):** Administrative approval: No change to total hours required; doesn't restrict student choice.

Key: 134

# DRAFT CURRICULUM COMPARISON LANDSCAPE ARCHITECTURE PROPOSED REVISIONS

## Current Curriculum

| General Education Requirements | | |
|---|---|---|
| Some courses may fulfill multiple General Education categories. Courses may also fulfill both major requirements and Gen Ed categories. | | |
| | | |
| **Code** | **Title** | **Hours** |
| Composition I | | **4** |
| Advanced Composition (LA 314fulfills) | | |
| Quantitative Reasoning I (specific course required): | | **3** |
| **STAT 100** | Statistics | 3 |
| or **MATH 115** | Preparation for Calculus | 3 |
| Quantitative Reasoning II | | **3** |
| Humanities and the Arts (LA 314 fulfills) | | |
| Humanities and the Arts (some courses in Social/Cultural Factors in Design Elective category will fulfill this) | | **0-3** |
| Cultural Studies: Western Comparative Cultures (LA 314 fulfills) | | |
| Cultural Studies: U.S. Minority Culture(s) | | **3** |
| Cultural Studies: Non-Western Cultures (some courses in Social/Cultural Factors in Design Elective category will fulfill this) | | **0-3** |
| Natural Sciences & Technology (specific courses required) | | **6-8** |
| **GEOG 103** Course GEOG 103 Earth's Physical Systems (4)<br>**or GEOL 100** Planet Earth (3) | | 3-4 |
| **IB 103** Introduction to Plant Biology<br>or **IB 105** Environmental Biology | | 3-4 |
| Social and Behavioral Sciences | | **6** |
| | | |
| | **Total Credits for General Education** | **25-33** |
| Language Other than English[1] | | 0-12 |

[1]General Education Language Requirement: Options to satisfy this requirement are noted in the Course Explorer.

| Landscape Architecture Curriculum | | |
|---|---|---|
| **Code** | **Title** | **Hours** |
| College Orientation | | **1** |
| **FAA 101** | Arts at Illinois | 1 |
| Construction, Plant Materials & Design, History, & Design Communications | | **29** |
| **LA 101** | Introduction to Landscape Arch | 2 |
| **LA 241** | Landform Design & Construction | 3 |
| **LA 250** | Environmental Site Analysis | 3 |
| **LA 280** | Design Communications I | 3 |
| **LA 281** | Design Communications II | 3 |
| **LA 314** | History of World Landscapes | 4 |
| **LA 342** | Site Engineering | 4 |
| **LA 343** | Landscape Construction | 4 |
| **LA 452** | Natural Precedent in Planting | 3 |
| Design Studio Courses | | **30** |
| **LA 233** | Foundation Design Studio | 5 |
| **LA 234** | Site Design Studio | 5 |
| **LA 335** | Community & Open Space Studio | 5 |
| **LA 336** | Design Workshop Studio I | 5 |
| **LA 437** | Regional Design Studio | 5 |
| **LA 438** | Design Workshop Studio II | 5 |
| Professional Preparation | | **7** |
| **LA 345** | Professional Internship | 5 |
| **LA 346** | Professional Practice | 2 |
| | | |
| Supporting Electives (chosen from list in tab above: three credit hours in each of the categories of history, communications, techniques, and environment) | | **12** |
| | | |
| Social/Cultural Factors in Design Elective (pick one): | | **3** |
| **LA 212** | Water and Society | |
| **LA 218** | S Asian Cultural Landscapes | |
| **LA 220** | Exploring African Cities | |
| **LA 221** | History of the Prison | |
| **LA 222** | Islamic Gardens & Architecture | |
| **LA 242** | Nature and American Culture | |
| **LA 270** | Behavioral Factors in Design | |
| **LA 470** | Social/Cultural Design Issues | |
| Urban & Regional Planning | | **3** |
| **UP 101** | Introduction to City Planning | 3 |
| Horticulture | | **4** |
| **HORT 301** | Course HORT 301 Not Found | 4 |
| | **Total Credits for LA Major Coursework** | **89** |

| Total Credits for BLA | |
|---|---|
| General Education | 25-33 |
| Language Other than English[1] | 0-12 |
| Landscape Architecture Curriculum | 89 |
| Free Electives | 0-10 |
| **Minimum Total Credits for BLA** | **124** |

## Proposed Curriculum

| General Education Requirements | | |
|---|---|---|
| Some courses may fulfill multiple General Education categories. Courses may also fulfill both major requirements and Gen Ed categories. | | |
| | | |
| **Code** | **Title** | **Hours** |
| Composition I | | **4** |
| Advanced Composition (LA 314fulfills) | | |
| Quantitative Reasoning I (specific course required): | | **3** |
| **STAT 100** | Statistics | |
| or **MATH 115** | Preparation for Calculus | |
| Quantitative Reasoning II | | **3** |
| Humanities and the Arts (LA 314 fulfills) | | |
| Humanities and the Arts | | **3** |
| Cultural Studies: Western Comparative Cultures (LA 314fulfills) | | |
| Cultural Studies: U.S. Minority Cultures | | **3** |
| Cultural Studies: Non-Western Cultures | | **3** |
| Natural Sciences & Technology (specific courses required) | | **6-8** |
| **GEOL 100** Planet Earth (3)<br>**or GGIS 103** Earth's Physical Systems (4) | | 3-4 |
| **IB 103** Introduction to Plant Biology (4)<br>or **IB 105** Environmental Biology (3) | | 3-4 |
| Social and Behavioral Sciences | | **6** |
| | | |
| | **Total Credits for General Education** | **31-33** |
| Language Other than English[1] | | **0-12** |

[1]General Education Language Requirement: Options to satisfy this requirement are noted in the Course Explorer.

| Landscape Architecture Curriculum | | |
|---|---|---|
| **Code** | **Title** | **Hours** |
| College Orientation | | **1** |
| **FAA 101** | Arts at Illinois | 1 |
| Construction, Plant Materials & Design, History, & Design Communications | | **29** |
| **LA 101** | Introduction to Landscape Arch | 2 |
| **LA 241** | Landform Design & Construction | 3 |
| **LA 250** | Environmental Site Analysis | 3 |
| **LA 280** | Design Communications I | 3 |
| **LA 281** | Design Communications II | 3 |
| **LA 314** | History of World Landscapes | 4 |
| **LA 342** | Site Engineering | 4 |
| **LA 343** | Landscape Construction | 4 |
| **LA 452** | Natural Precedent in Planting | 3 |
| Design Studio Courses | | **30** |
| **LA 233** | Foundation Design Studio | 5 |
| **LA 234** | Site Design Studio | 5 |
| **LA 335** | Community & Open Space Studio | 5 |
| **LA 336** | Design Workshop Studio I | 5 |
| **LA 437** | Regional Design Studio | 5 |
| **LA 438** | Design Workshop Studio II | 5 |
| Professional Preparation | | **2** |
| **LA 346** | Professional Practice | 2 |
| | | |
| Focused Electives | | **18** |
| Focused electives are a requirement of all BLA students to graduate and must be approved by the BLA Advisor during an advising appointment. | | |
| Urban & Regional Planning | | **3** |
| **UP 101** | Introduction to City Planning | 3 |
| Horticulture | | **4** |
| **LA 390** | Woody Landscape Plants* | 4 |
| | **Total Credits for LA Major Coursework** | **87** |

| Total Credits for BLA | |
|---|---|
| General Education | 31-33 |
| Language Other than English[1] | 0-12 |
| Landscape Architecture Curriculum | 87 |
| Free Electives | 0-2 |
| **Minimum Total Credits for BLA** | **124** |

UNIVERSITY OF ILLINOIS
Urbana-Champaign ● Chicago ● Springfield

University Senates Conference
378 Henry Administration Building
506 South Wright Street
Urbana, IL 61801

February 26, 2020

Kathy Martensen
Assistant Provost for Educational Programs
206 Swanlund, MC-304

Dear Kathy:

At its meeting on February 20, the University Senates Conference approved the proposed classification of minutes of the Urbana-Champaign Senate meeting of February 10. The Class I items are listed below.

| | |
|---|---|
| EP.19.69 | Establish a Major in Translational Medical Sciences in the Carle Illinois College of Medicine for the Degree of Master of Science |
| EP.20.34 | Establish a Minor in Disability Studies in the Department of Kinesiology and Community Health, College of Applied Health Sciences |
| EP.20.44 | Eliminate the BS MS in Industrial Engineering |
| EP.20.45 | Eliminate the BS MS in Mechanical Engineering |
| EP.20.46 | Revision of Curriculum Requirements for the Ph.D. in Civil Engineering to Add a 96-Credit Hour Option |
| EP.20.47 | Revision of Curriculum Requirements for the Ph.D. in Environmental Engineering to Add a 96-Credit Hour Option |
| EP.20.48 | Revision to the Master of Accounting Science (MAS) Degree Course Requirements |
| EP.20.49 | Revision to Taxation Concentration. Revision to the Master of Accounting Science (MAS) Degree Course Requirements |
| EP.20.50 | Revision to the Data Analytics Concentration. Revision to the Master of Accounting Science (MAS) Degree Course Requirements |
| EP.20.51 | Financial Reporting & Assurance Concentration. Revision to the Master of Accounting Science (MAS) Degree Course Requirements |

Telephone (217) 333-3077 ● Fax (217) 244-5763

EP.20.52 Establish Joint Program in the Department of Animal Sciences for the BS/MANSC

EP.20.53 Establish a Joint BS (CS+ANSC)/MANSC Program in the Department of Animal Sciences

EP.20.54 Revise the BALAS in Classics, College of Liberal Arts and Sciences, to Eliminate the Five Ways Students Can Choose a Classics Major (Major in Classics (Without a Concentration) and the Four Concentrations in Greek, Latin, Classics, Classical Civilization, and Classical Archeology. Add Concentrations in Classical Languages and Classical Civilizations as the Only Two Options Students May Pursue a Classics Major

EP.20.55 Revise the BALAS in Classics, College of Liberal Arts and Sciences, Classical Archeology

EP.20.56 Revise the BALAS in Classics, College of Liberal Arts and Sciences, Classical Civilization

EP.20.57 Elimination of the Undergraduate Minor: Classical Archaeology. In Conjunction with the Elimination of Three Other Undergraduate Minors in the Department of Classics: Classical Civilization, Greek, Latin; and the Creation of Two Minors: Classical Civilizations and Classical Languages

EP.20.58 Elimination of the Undergraduate Minor: Greek Minor

EP.20.59 Elimination of the Undergraduate Minor: Classical Civilization

EP.20.60 Elimination of the Undergraduate Minor: Latin Minor

EP.20.61 Creation of a new Undergraduate Minor: Classical Civilizations

EP.20.62 Creation of a new Undergraduate Minor: Classical Languages

EP.20.63 Revise the BALAS in Classics, Classical Civilizations

EP.20.64 Revise the BALAS in Classics, Classical Languages

EP.20.65 Revising EdD Degree Program Course and Exam Requirement

EP.20.66 Revise the Minor in German, Department of Germanic Languages and Literatures

EP.20.67 Revise the BALAS in Classics

EP.20.68 Revise the BALAS in Classics: Latin

EP.20.69 Establish a New Master of Science (M.S.) in Mental Health Counseling in the Department of Educational Psychology, College of Education

EP.20.70 Proposal to Establish a New Bachelor of Science Degree with a Major in Plant Biotechnology (B.S. in Plant Biotech) in the Department of Crop Sciences, College of Agricultural, Consumer and Environmental Sciences

EP.20.71 Revision to the Chemistry Minor

EP.20.72 Urban Studies & Planning: Social Justice

EP.20.75 Remove Art History PhD, Art Education PhD, and Education Policy, Organization, and Leadership MA, EdM, and CAS from a List of Programs Participating in the Writing Studies Floating Concentration

EP.20.76 Create a new Minor in German Business and Commercial Studies

EP.20.77 Computer Science & Philosophy, BSLAS (Revisions to the BSLAS in Computer Science & Philosophy, Department of Philosophy)

EP.20.78 Computer Science Minor

EP.20.79 New Proposal for BFA in Theatre: Arts & Entertainment Technology

EP.20.80 Revising Requirements for BFA in Theatre: Scenic Design

EP.20.81 Revising Requirements for BFA in Theatre: Sound Design & Technology

EP.20.82 Revising Requirements for BFA in Theatre: Lighting Design & Technology

EP.20.83 Revising Requirements for BFA in Theatre: Scenic Technology

EP.20.84 Revising Requirements for BFA in Theatre: Costume Design & Technology

EP.20.85 Revising Requirements for BFA in Theatre: Acting

EP.20.86 Revising Requirements for BFA in Theatre

EP.20.87 Revising Requirements for BFA in Theatre: Theatre Studies

EP.20.88 Revising Requirements for BFA in Theatre: Stage Management

EP.20.89 Revising Requirements in Theatre Minor, UG

EP.20.90 Computer Science & Astronomy, BSLAS (Revise the BSLAS in Computer Science & Astronomy, College of Liberal Arts and Sciences)

EP.20.91 Revising Requirements for BS in Civil Engineering

EP.20.92 Revising Requirements for BS in Computer Engineering

EP.20.93 Revising Requirements for BSAG in Agricultural and Biological Engineering

EP.20.94 Revising Requirements for BS in Agricultural and Biological Engineering

EP.20.95 Revising Requirements for BS in Agricultural & Biological Engineering: Agricultural Engineering

EP.20.96 Revising Requirements for BS in Agricultural & Biological Engineering: Biological Engineering

EP.20.97 Revising Requirements for BS in Computer Science

EP.20.98 Revising Requirements for BS in Electrical Engineering

EP.20.99 Revising Requirements for BS in Engineering Mechanics

EP.20.100 Revising Requirements for BS in Engineering Physics

EP.20.101 Revising Requirements for BS in Systems Engineering & Design

EP.20.102 Revising Requirements for BS in Nuclear, Plasma, and Radiological Engineering

EP.20.103 Revising Requirements for BS in Mechanical Engineering

EP.20.104 Revising Requirements for BS in Materials Science & Engineering

SP.20.09 Proposed Revision to the *Constitution*, Article II, Section 1.b; Article III, Section 1; and Article IV, Section 1

Sincerely,

Connie

Connie Sailor
Administrative Aide

c: Ellen Foran,
Renee Nagy
Julian Parrott
Jenny Roether
Nathan Wilds

Date Submitted: 01/07/22 11:35 am

# Viewing: 10KV0150BALA : History of Art, BALAS

Last approved: 01/29/19 9:56 am

Last edit: 01/18/22 8:59 am

Changes proposed by: Andrea Ray

| | |
|---|---|
| Catalog Pages Using this Program | History of Art, BALAS |

Proposal Type:
Major (ex. Special Education)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | History of Art, BALAS | | |
| Sponsor College | Liberal Arts & Sciences | | |
| Sponsor Department | LAS Administration | | |
| Sponsor Name | Andrea Ray | | |
| Sponsor Email | aray@illinois.edu | | |
| College Contact | Stephen R. Downie | College Contact Email | sdownie@illinois.edu |
| College Budget Officer | | | |
| College Budget Officer Email | | | |

## In Workflow

1. **U Program Review**
2. **1526 Head**
3. **KR Dean**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 01/07/22 1:41 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/07/22 2:08 pm Melissa Pokorny (mpokorny): Approved for 1526 Head
3. 01/07/22 2:10 pm Nicole Turner (nicturn): Approved for KR Dean
4. 01/12/22 3:30 pm Stephen Downie (sdownie): Approved for KV Dean
5. 01/12/22 3:45 pm John Wilkin (jpwilkin): Approved for University Librarian
6. 01/18/22 9:05 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Jan 29, 2019 by Deb Forgacs

(dforgacs)

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
Yes

Interdisciplinary Colleges and Departments (list other colleges/departments which are involved other than the sponsor chose above)
Please describe the oversight/governance for this program, e.g., traditional departmental/college governance. Inclusion of/roles of elected faculty committees? Inclusion of/roles of any advisory committees.

College Fine & Applied Arts

Department Art and Design

Is there an additional department involved in governance?
No

## Proposal Title

Effective Catalog Term Fall 2022

Provide a brief, concise description (not justification) of your proposal.
Administrative approval to revise the BALAS in History of Art:

Curricula update to History of Art, BALAS

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?
HIST 472 course number was changed and approved to HIST 312 in Spring 2019.
Updating course options for the major.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?
No

Does the program include other courses/subjects impacted by the creation/revision of this program?
No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).
N/A

Is the career/profession for graduates of this program regulated by the State of Illinois?
No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

**General education:** Students must complete the Campus General Education requirements including the campus general education language requirement.

**Minimum required major and supporting course work:** Twelve (12) hours of 300- and 400-level courses in the major must be taken on this campus.

**Minimum hours required for graduation:** 120 hours.

---

Course List

| Code | Title | Hours |
|---|---|---|
| Total required Core Hours | | 39 |
| 1 course in studio art, graphic design or industrial design | | 3 |
| 1 foundational gateway course at the 100-level: | | 3 |
| ARTH 110 | Introduction to the History of Art and Visual Culture | |
| Three (3) Supporting Courses in the Humanities offered by LAS: | | 9 |
| These courses must be approved by the Art History advisor and be outside the field of art history with the goal of enhancing the student's understanding of the cultural context within which works of art and architecture have been created. | | |
| See list of Approved Supplemental Courses below | | |
| Six (6) 200-400 level courses in Art History, offered in the School of Art & Design | | 18 |
| (Though students must take a total of 6 courses, some may count toward the fulfillment of more than one area and period requirement. For instance, a course in 20th century African art could count as a class covering both Africa and the Middle East and material after 1700.) | | |
| Students must take at least one course in three of the following areas: 1) Africa and the Middle East; 2) Asia; 3) the Americas; 4) Europe<br>At least one course must cover material before 1700<br>At least one course must cover material after 1700<br>With an advisor's approval, up to 6 credit hours of courses in the history of architecture or landscape architecture at the 200-400 level may be taken towards the fulfillment of these required hours<br>~~Though students must take a total of 6 courses, some may count toward the fulfillment of more than one area and period requirement. For instance, a course in 20th century African art could count as a class covering both Africa and the Middle East and material after 1700.~~ | | |
| Two (2) seminars in Art History at the 400-level | | 6 |
| Courses must be designated as art history seminars (not all 400-level courses have this designation), or be approved as a seminar by the undergraduate advisor | | |
| See approved list below | | |

| Code | Title | Hours |
|---|---|---|
| Total Hours required for graduation | | 120 |

Course List

| Code | Title | Hours |
|---|---|---|
| ~~History of Art - List of Approved Supplemental Humanities Courses 1~~ | | |
| History of Art - List of Approved Supplemental Humanities Courses<br>(Please note: this is not a complete list of approved courses as individual student interests may guide supplemental courses in any number of directions. To ensure students take appropriate courses, all supplemental Humanities hours must be approved by the BALAS advisor.) | | |
| AFRO 212 | Intro African American Theat | 3 |
| AFRO 227 | Studies in Black Television | 3 |
| AFRO 228 | Hip Hop Music: History and Culture | 3 |
| AFRO 243 | Pan Africanism | 3 |
| AFRO 259 | Early African American Literature and Culture | 3 |
| or AFRO 260 | Modern African American Literature and Culture | |
| AFRO/ENGL 272 | Minority Images in Amer Film | 3 |
| AFRO 382 | African Amer Families in Film | 3 |
| AFRO 400 | African Diasporic Thought in the Caribbean | 3 or 4 |
| AFST 222 | Introduction to Modern Africa | 3 |
| AFST 266 | African Film and Society | 3 |
| ANTH 224 | Tourist Cities and Sites | 3 |
| ANTH 250 | The World Through Museums | 3 |
| ANTH 364 | Performing "America | 3 |
| ANTH 462 | Museum Theory and Practice | 3 or 4 |
| AAS 200 | U.S. Race and Empire | 3 |
| AAS 211 | Asian Americans and the Arts | 3 |
| AAS 246 | Asian American Youth in Film | 3 |
| AAS/GWS 275 | The Politics of Fashion | 3 |
| AAS 300/GWS 305/LLS 305 | Theories of Race, Gender, and Sexuality | 3 |
| AAS/GWS 315 | War, Memory, and Cinema | 3 |
| CLCV 206 | Classical Allusions in Cinema | 3 |
| CLCV 240 | Gender & Sexuality in Greco-Roman Antiquity | 3 |
| ENGL 202 | Medieval Literature and Culture | 3 |
| ENGL 204 | Renaissance Literature and Culture | 3 |
| ENGL 206 | Enlightenment Literature and Culture | 3 |
| ENGL 207 | Romantic Literature and Culture | 3 |
| ENGL 208 | Victorian Literature and Culture | 3 |
| ENGL 209 | Early British Literature and Culture | 3 |
| or ENGL 210 | Modern British Literature and Culture | |
| ENGL 211/AFST 210/CWL 210 | Introduction to Modern African Literature | 3 |
| ENGL 213 | Modernist Literature and Culture | 3 |
| ENGL 224/LLS 240/SPAN 240 | Latina/o Popular Culture | 3 |
| ENGL 253 | Topics in Literature and New Media | 3 |
| ENGL 255 | Early American Literature and Culture | 3 |
| ENGL 273 | American Cinema, 1950-2000 | 3 |
| ENGL 285 | Postcolonial Literature in English | 3 |
| HIST 200 | Intro Hist Interpretation | 3 |
| HIST 202 | American Environmental History | 3 |
| HIST 203 | Reacting to the Past | 3 |
| HIST 205 | Lived Experience in Latin America | 3 |
| HIST 211 | History of Southern Africa | 3 |
| HIST 212 | History of Eastern Africa | 3 |
| HIST/EALC 220 | Traditional China | 3 |
| HIST/EALC 221 | Modern China | 3 |
| HIST/EALC 226 | Premodern Japanese History | 3 |
| HIST/EALC 227 | Modern Japanese History | 3 |

| Code | Title | Hours |
|---|---|---|
| HIST 258 | 20thC World to Midcentury | 3 |
| HIST 259 | 20thC World from Midcentury | 3 |
| HIST 260 | History of Russia | 3 |
| HIST 270 | United States History to 1815 | 3 |
| HIST 271 | Nineteenth Century America | 3 |
| HIST 272 | Twentieth Century America | 3 |
| HIST 274 | US Foreign Relations Since 1917 | 3 |
| HIST/LLS 279 | Mexican-American History | 3 |
| HIST/AAS/AFRO/LLS 281 | Constructing Race in America | 3 |
| HIST/GWS 285 | US Gender History to 1877 | 3 |
| HIST/GWS 286 | US Gender History Since 1877 | 3 |
| HIST/GWS/AFRO 287 | African-American Women | 3 |
| HIST 310 | Global Capitalism in History | 3 |
| HIST 312 | Immigrant America | 3 or 4 |
| HIST/MDVL/REL 345 | Medieval Civilization | 3 |
| HIST 347 | Protestant & Catholic Refs | 3 |
| HIST 349 | Age of Revolution, 1775-1815 | 3 |
| HIST 350 | 19thC Romanticism & Politics | 3 |
| HIST 352 | Europe in the World | 3 |
| HIST 354 | Twentieth Century Europe | 3 |
| HIST 357 | Modern France | 3 |
| HIST 360 | European Culture in a Global Context | 3 |
| HIST 370 | Colonial America | 3 |
| HIST 373 | Origins of the Civil War | 3 |
| HIST 374 | Civil War and Reconstruction | 3 |
| HIST 375 | Soc History Indus Am to 1918 | 3 |
| HIST 376 | Soc History Indus Am from 1918 | 3 |
| HIST 379 | Latina/os and the City | 3 |
| HIST 380 | US in an Age of Empire | 3 |
| HIST/EALC 420 | China Under the Qing Dynasty | 2 to 4 |
| HIST 425/CWL 478/EALC 476 | Classical Chinese Thought | 3 or 4 |
| HIST/GWS 459 | Postcolonial/Queer | 3 or 4 |
| HIST 462 | Soviet Union Since 1917 | 2 to 4 |
| ~~HIST 472~~ | ~~Course HIST 472 Not Found~~ | |
| HIST 476/LLS 475 | History of the American West | 3 or 4 |
| ITAL 406 | Italian Culture and Globalization | 3 or 4 |
| LLS/ANTH 259 | Latina/o Anthropology | 3 |
| LLS/ENGL 458 | Latina/o Performance | 3 or 4 |
| LLS 460/AAS 400 | Critical Ethnic Studies | 3 or 4 |
| LLS 465 | Race, Sex, and Deviance | 3 or 4 |
| LLS 473/ANTH 472 | Immigration, Health & Society | 3 or 4 |
| PHIL 411 | Nineteenth Century Philosophy | 3 or 4 |
| PHIL 412 | Classical Modern Philosophers | 3 or 4 |
| PHIL 414 | Major Recent Philosophers | 3 or 4 |

Course List

| Code | Title | Hours |
|---|---|---|
| List of 400-level Seminars | | |
| ARTH 413 | Sacred African Diaspora Arts | 3 or 4 |
| ARTH 415 | The Archaeology of Greece | 3 |
| ARTH 424 | Gothic Art | 3 or 4 |
| ARTH 430 | Topics: Italian Art 1300-1500 | 3 or 4 |
| ARTH 431 | Topics: Northern Art 1300-1500 | 3 or 4 |
| ARTH 436 | 17th-Century Dutch & Flemish Art | 3 or 4 |
| ARTH 440 | Romantic Art | 3 or 4 |
| ARTH 445 | European Art Between the Wars | 3 or 4 |
| ARTH 447 | France and Its Others | 3 or 4 |
| ARTH 495 | Senior Seminar in Art History | 3 |

~~1~~

~~*Though students must take a total of 6 courses, some courses may count toward the fulfillment of more than one area and period requirement. For instance, a course in 20th century African art could count as a class covering both Africa and the Middle East and material after 1700.*~~

~~1~~

~~*Please note: this is not a complete list of approved courses as individual student interests may guide supplemental courses in any number of directions. To ensure students take appropriate courses, all supplemental Humanities hours must be approved by the BALAS advisor.*~~

| | |
|---|---|
| Corresponding Degree | BALAS Bachelor of Arts in Liberal Arts and Sciences |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |
| Does this major have transcripted concentrations? | No |
| What is the typical time to completion of this program? | 4 years |
| What are the minimum Total Credit Hours required for this program? | 120 |
| CIP Code | 500703 - Art History, Criticism and Conservation. |
| Is This a Teacher Certification Program? | No |
| Will specialized accreditation be sought for this program? | No |

## Delivery Method

| | |
|---|---|
| This program is available: | On Campus - Students are required to be on campus, they may take some online courses. |

## Admission Requirements

Desired Effective Admissions Term

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Describe how critical academic functions such as admissions and student advising are managed.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

N/A

Estimated Annual Number of Degrees Awarded

| Year One Estimate | 5th Year Estimate (or when fully implemented) |
|---|---|

What is the matriculation term for this program? Fall

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact to unit

Will the unit need to seek campus or other external resources?

No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Are you seeking a change in the tuition rate or differential for this program?

No

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

No impact to unit

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | | | | |
|---|---|---|---|---|
| Attach Final Approval Notices | | | | |
| Banner/Codebook Name | BALAS:History of Art | | | |
| Program Code: | 10KV0150BALA | | | |
| Minor Code | Conc Code | Degree Code | Major Code | 0150 |
| Senate Approval Date | | | | |
| Senate Conference Approval Date | | | | |
| BOT Approval Date | | | | |
| IBHE Approval Date | | | | |
| HLC Approval Date | | | | |

Effective Date:

Attached Document Justification for this request

Program Reviewer Comments

**Deb Forgacs (dforgacs) (01/06/22 3:59 pm):** Rollback: requested.
**Deb Forgacs (dforgacs) (01/07/22 11:34 am):** Rollback: requested.
**Kathy Martensen (kmartens) (01/18/22 8:59 am):** Administrative approval: Doesn't change total hours or restrict student choice.

Key: 280

Date Submitted: 12/09/21 9:40 am

# Viewing: 3913 : Nuclear, Plasma, and Radiological Engineering: Power, Safety & Environment, BS

Last approved: 11/17/21 10:31 am

Last edit: 01/18/22 9:13 am

Changes proposed by: Becky Meline

| | |
|---|---|
| Catalog Pages Using this Program | Nuclear, Plasma, and Radiological Engineering: Power, Safety & Environment, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1973 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/10/21 9:36 am Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/10/21 9:44 am Rizwan Uddin (rizwan): Approved for 1973 Head
3. 01/11/22 1:06 pm Brooke Newell (bsnewell): Approved for KP Committee Chair
4. 01/11/22 1:17 pm Candy Deaville (candyd): Approved for KP Dean
5. 01/11/22 1:49 pm John Wilkin (jpwilkin): Approved for

University Librarian
6. 01/18/22 9:21 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Nov 17, 2021 by Brooke Newell (bsnewell)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Nuclear, Plasma, and Radiological Engineering: Power, Safety & Environment, BS |
| Sponsor College | Grainger College of Engineering |
| Sponsor Department | Nuclear, Plasma & Rad Engr |
| Sponsor Name | Tomasz Kozlwsoki |
| Sponsor Email | txk@illinois.edu |
| College Contact | Brooke Newell |
| College Contact Email | bsnewell@illinois.edu |
| College Budget Officer | Tessa Hile |
| College Budget Officer Email | tmhile@illinois.edu |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the concentration in Power, Safety & Environment in the BS in NPRE:

1) Revise description in technical elective section to clarify intent.

2) Add NPRE 413 to the list of options in the technical electives.

3) Cleaned up some typos, duplication of course titles in comments, and no longer needed footnotes (NPRE 199, NPRE 430, NPRE 481).

4) STAT 400 moved to a different sub-section of Technical Electives list.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

See NPRE BS key 123

## Program Justification

Why are these changes necessary?

1) Rewording clarifies the intent of technical elective requirements.

a) Assumed in the original wording was that courses are typically offered for 3 hours and so taking 2 courses would meet the 6 hour requirement. The new wording accounts for the possibility of courses taken that are offered for a more atypical number of credit hours, so long as they add up to the minimum 6 hours required.

b) The new wording takes into account that students may take greater than 6 hours from the NPRE Power Concentration Electives list and have it apply towards the overall 15 hours required technical electives. This is the current practice in NPRE, however the way it is listed in the POS is often a source of confusion to students.

2) NPRE 413 is a recently approved course. When the original proposal for the program change was submitted, it was being offered as a 498 and still being reviewed. It is an appropriate course to add to the list.

3) Cleaned up typos, duplications, and footnotes for clarity.

4) STAT 400 was moved to a different sub-section of Technical Electives list because it fits more appropriately in with the CSE grouping.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a

result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

See NPRE BS key 123.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs NPRE Power, Safety and Environment BS side by side.xlsx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Required Course | | 2 |
| NPRE 432 | Nuclear Engrg Materials Lab | 2 |
| ~~Technical electives broken down as follows:~~ | | ~~15~~ |

| Code | Title | Hours |
|---|---|---|
| Technical Electives | | 15 |
| From Departmentally Approved List of Technical Electives - students are to take at least 6 hours from the NPRE Power Concentration Electives list. The remaining hours may be taken from any course on the Technical Electives list. The student is to confer with their academic adviser on a chosen course set to ensure that a strong program is achieved. | | |
| NPRE Power Concentration Electives List | | |
| NPRE 412 | Nuclear Power Econ & Fuel Mgmt | 3 or 4 |
| NPRE 413 | Nuclear Separations and Fuel Reprocessing | 2 or 3 |
| NPRE 430 | Advanced Materials in Nuclear Engineering | 3 |
| NPRE 442 | Radioactive Waste Management | 3 |
| NPRE 457 | Safety Anlys Nucl Reactor Syst | 3 or 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 480 | Energy and Security | 3 |
| NPRE 498 | Special Topics | 1 to 4 |
| Other Technical Electives | | |
| Technical Electives from NPRE or from other departments in the subfields: Thermal Sciences; Power and Control Systems; Solid, Fluid and Continuum Mechanics; Computational Sciences and Engineering; Environmental Engineering and Science. | | |
| ~~Common Engineering and Technical Electives~~ | | |
| NPRE 199 | Undergraduate Open Seminar (May be repeated in separate terms to a maximum of 2 times.) | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 470 | Fuel Cells & Hydrogen Sources | 3 |
| NPRE 475 | Wind Power Systems | 3 or 4 |
| NPRE 481 | Writing on Technol & Security | 3 or 4 |
| NPRE 483 | Seminar on Security | 1 |
| Thermal Sciences | | |
| ME 320 | Heat Transfer | 4 |
| ME 400 | Energy Conversion Systems | 3 or 4 |
| ME 402 | Design of Thermal Systems | 3 or 4 |
| ME 404 | Intermediate Thermodynamics | 4 |
| ME 410 | Intermediate Gas Dynamics | 3 or 4 |
| ME 411 | Viscous Flow & Heat Transfer | 4 |
| ME 420 | Intermediate Heat Transfer | 4 |

| Code | Title | Hours |
|---|---|---|
| Power and Control Systems | | |
| ECE 329 | Fields and Waves I | 3 |
| ECE 310 | Digital Signal Processing | 3 |
| ECE 330 | Power Ckts & Electromechanics | 3 |
| ECE 476 | Power System Analysis | 3 |
| ECE 486 | Control Systems | 4 |
| Solid, Fluid and Continuum Mechanics | | |
| TAM 251 | Introductory Solid Mechanics | 3 |
| TAM 252 | Solid Mechanics Design | 1 |
| TAM 424 | Mechanics of Structural Metals | 3 or 4 |
| TAM 435 | Intermediate Fluid Mechanics | 4 |
| TAM 445 | Continuum Mechanics | 4 |
| TAM 451 | Intermediate Solid Mechanics | 4 |
| TAM 456 | Experimental Stress Analysis | 3 |
| Computational Sciences and Engineering | | |
| CS 357 | Numerical Methods I | 3 |
| CS 450 | Numerical Analysis | 3 or 4 |
| ME 471 | Finite Element Analysis | 3 or 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Environmental Engineering and Science | | |
| CEE 201 | Systems Engrg & Economics | 3 |
| CEE 330 | Environmental Engineering | 3 |
| CEE 437 | Water Quality Engineering | 3 |
| CEE 443 | Env Eng Principles, Chemical | 4 |
| CEE 444 | Env Eng Principles, Biological | 4 |
| CEE 446 | Air Quality Engineering | 4 |
| CEE 447 | Atmospheric Chemistry | 4 |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Nuclear, Plasma, and Radiological Engineering, BS |

## Program Features

Academic Level Undergraduate

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

Revision will not impact enrollment nor degrees awarded.

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

These changes will not impact our faculty resources.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

There is no impact to the use of the Library collections, resources, and services.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

Attach Final Approval Notices

| | |
|---|---|
| Banner/Codebook Name | Power, Safety, and the Environment |
| Program Code: | 3913 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | | Conc Code | 3913 | Degree Code | BS | | Major Code |
| 5183 | | | | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |

Program Reviewer Comments

**Deb Forgacs (dforgacs) (12/08/21 9:34 am):** Rollback: requested.
**Deb Forgacs (dforgacs) (12/08/21 9:53 am):** Rollback: requested.
**Kathy Martensen (kmartens) (01/18/22 9:12 am):** Administrative approval: Doesn't change total hours or restrict student choice.

Key: 1110

**GREEN HIGHLIGHT = Course addition, requirement replacement or updated hours**
**RED HIGHLIGHT = Course to be removed from listed requirements**
**YELLOW HIGHLIGHT = Revision to requirement**

## Current Program of Study

| | | |
|---|---|---|
| NPRE 432 | Nuclear Engrg Materials Lab | 2 |
| Technical electives broken down as follows: | | 15 |
| Select 2 courses from the following list: | | |
| NPRE 412 | Nuclear Power Econ & Fuel Mgmt | 3 or 4 |
| NPRE 430 | Advanced Materials in Nuclear Engineering (Adv Materials in Nuclear Engrg) | 3 |
| NPRE 442 | Radioactive Waste Management | 3 |
| NPRE 457 | Safety Anlys Nucl Reactor Syst | 3 or 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 480 | Energy and Security | 3 |
| NPRE 498 | Special Topics | 1 to 4 |
| Select 9 credit hours of technical electives from list below. Technical electives selected from departmentally approved Power, Safety, and the Environment elective course work in Common Engineering and Technical Electives or one of the following subfields: Thermal Sciences; Power and Control Systems; Solid, Fluid and Continuum Mechanics; Computational Sciences and Engineering; Environmental Engineering and Science. The student's academic advisor must approve the chosen course set to insure that a strong program is achieved. | | |
| Comon Engineering and Technical Electives | | |
| | Undergraduate Open Seminar (May be taken up to 2 timse in seprate seminars for credit towards concentration) | |
| NPRE 199 | | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 470 | Fuel Cells & Hydrogen Sources | 3 |
| NPRE 475 | Wind Power Systems | 3 or 4 |
| NPRE 481 | Writing on Technol & Security [5] | 3 or 4 |
| NPRE 483 | Seminar on Security | 1 |
| STAT 400 | Statistics and Probability I | 4 |
| Thermal Sciences | | |
| ME 320 | Heat Transfer | 4 |
| ME 400 | Energy Conversion Systems | 3 or 4 |
| ME 402 | Design of Thermal Systems | 3 or 4 |
| ME 404 | Intermediate Thermodynamics | 4 |
| ME 410 | Intermediate Gas Dynamics | 3 or 4 |
| ME 411 | Viscous Flow & Heat Transfer | 4 |
| ME 420 | Intermediate Heat Transfer | 4 |
| Power and Control Systems | | |
| ECE 329 | Fields and Waves I | 3 |
| ECE 310 | Digital Signal Processing | 3 |
| ECE 330 | Power Ckts & Electromechanics | 3 |
| ECE 476 | Power System Analysis | 3 |
| ECE 486 | Control Systmes | 4 |
| Solid, Fluid and Continuum Mechanics | | |
| TAM 251 | Introductory Solid Mechanics | 3 |
| TAM 252 | Solid Mechanics Design | 1 |
| TAM 424 | Mechanics of Structural Metals | 3 or 4 |
| TAM 435 | Intermediate Fluid Mechanics | 4 |
| TAM 445 | Continuum Mechanics | 4 |
| TAM 451 | Intermediate Solid Mechanics | 4 |
| TAM 456 | Experimental Stress Analysis | 3 |
| Computational Sciences and Engineering | | |
| CS 357 | Numerical Methods I | 3 |
| CE 450 | Numerical Analysis | 3 or 4 |
| ME 471 | Finite Element Analysis | 3 or 4 |
| Environmental Engineering and Science | | |
| CEE 201 | Systems Engrg & Economics | 3 |
| CEE 330 | Environmental Engineering | 3 |
| CEE 437 | Water Quality Engineering | 3 |
| CEE 443 | Env Eng Principles, Chemical | 4 |
| CEE 444 | Env Eng Principles, Biologial | 4 |
| CEE 446 | Air Quality Engineering | 4 |
| CEE 447 | Atmospheric Chemistry | 4 |

## New Program of Study

| | | |
|---|---|---|
| Required Course | | 2 |
| NPRE 432 | Nuclear Engrg Materials Lab | 2 |
| Technical Electives<br>From Departmentally Approved List of Technical Electives - students are to take at least 6 hours from the NPRE Power Concentration Electives list. The remaining hours may be taken from any course on the Technical Electives list. The student is to confer with their academic adviser on a chosen course set to ensure that a strong program is achieved. | | 15 |
| NPRE Power Concentration Electives | | |
| NPRE 412 | Nuclear Power Econ & Fuel Mgmt | 3 or 4 |
| NPRE 413 | Nuclear Separations and Fuel Reprocessing | 2 or 3 |
| NPRE 430 | Advanced Materials in Nuclear Engineering | 3 |
| NPRE 442 | Radioactive Waste Management | 3 |
| NPRE 457 | Safety Anlys Nucl Reactor Syst | 3 or 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 480 | Energy and Security | 3 |
| NPRE 498 | Special Topics | 1 to 4 |
| Other Technical Electives<br>Technical Electives from NPRE or from other departments in the subfields: Thermal Sciences; Power and Control Systems; Solid, Fluid and Continuum Mechanics; Computational Sciences and Engineering; Environmental Engineering and Science. | | |
| NPRE 199 | Undergraduate Open Seminar (May be repeated in separate terms to a maximum of 2 times.) | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 470 | Fuel Cells & Hydrogen Sources | 3 |
| NPRE 475 | Wind Power Systems | 3 or 4 |
| NPRE 481 | Writing on Technol & Security | 3 or 4 |
| NPRE 483 | Seminar on Security | 1 |
| Thermal Sciences | | |
| ME 320 | Heat Transfer | 4 |
| ME 400 | Energy Conversion Systems | 3 or 4 |
| ME 402 | Design of Thermal Systems | 3 or 4 |
| ME 404 | Intermediate Thermodynamics | 4 |
| ME 410 | Intermediate Gas Dynamics | 3 or 4 |
| ME 411 | Viscous Flow & Heat Transfer | 4 |
| ME 420 | Intermediate Heat Transfer | 4 |
| Power and Control Systems | | |
| ECE 329 | Fields and Waves I | 3 |
| ECE 310 | Digital Signal Processing | 3 |
| ECE 330 | Power Ckts & Electromechanics | 3 |
| ECE 476 | Power System Analysis | 3 |
| ECE 486 | Control Systmes | 4 |
| Solid, Fluid and Continuum Mechanics | | |
| TAM 251 | Introductory Solid Mechanics | 3 |
| TAM 252 | Solid Mechanics Design | 1 |
| TAM 424 | Mechanics of Structural Metals | 3 or 4 |
| TAM 435 | Intermediate Fluid Mechanics | 4 |
| TAM 445 | Continuum Mechanics | 4 |
| TAM 451 | Intermediate Solid Mechanics | 4 |
| TAM 456 | Experimental Stress Analysis | 3 |
| Computational Sciences and Engineering | | |
| CS 357 | Numerical Methods I | 3 |
| CE 450 | Numerical Analysis | 3 or 4 |
| ME 471 | Finite Element Analysis | 3 or 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Environmental Engineering and Science | | |
| CEE 201 | Systems Engrg & Economics | 3 |
| CEE 330 | Environmental Engineering | 3 |
| CEE 437 | Water Quality Engineering | 3 |
| CEE 443 | Env Eng Principles, Chemical | 4 |
| CEE 444 | Env Eng Principles, Biologial | 4 |
| CEE 446 | Air Quality Engineering | 4 |
| CEE 447 | Atmospheric Chemistry | 4 |

Date Submitted: 12/08/21 1:04 pm

# Viewing: 3914 : Nuclear, Plasma, and Radiological Engineering: Plasma & Fusion Science & Engineering, BS

Last approved: 12/03/21 11:23 am

Last edit: 01/18/22 9:22 am

Changes proposed by: Becky Meline

| | |
|---|---|
| Catalog Pages Using this Program | Nuclear, Plasma, and Radiological Engineering: Plasma & Fusion Science & Engineering, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1973 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/08/21 2:53 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/08/21 3:16 pm Rizwan Uddin (rizwan): Approved for 1973 Head
3. 01/11/22 1:06 pm Brooke Newell (bsnewell): Approved for KP Committee Chair
4. 01/11/22 1:17 pm Candy Deaville (candyd): Approved for KP Dean
5. 01/11/22 1:50 pm John Wilkin (jpwilkin): Approved for

University Librarian
6. 01/18/22 9:25 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Nov 17, 2021 by Brooke Newell (bsnewell)
2. Dec 3, 2021 by Deb Forgacs (dforgacs)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Nuclear, Plasma, and Radiological Engineering: Plasma & Fusion Science & Engineering, BS | | |
| Sponsor College | Grainger College of Engineering | | |
| Sponsor Department | Nuclear, Plasma & Rad Engr | | |
| Sponsor Name | Tomasz Kozlwsoki | | |
| Sponsor Email | txk@illinois.edu | | |
| College Contact | Brooke Newell | College Contact Email | bsnewell@illinois.edu |
| College Budget Officer | Tessa Hile | | |
| College Budget Officer Email | tmhile@illinois.edu | | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the Plasma & Fusion Science & Engineering concentration within the BS in NPRE:

Revised course table for clarity.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

See NPRE key 123

## Program Justification

Why are these changes necessary?

Revised course table for clarity and for consistency with the other two concentrations.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

NA

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60*

*quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs NPRE Plasma and fusion Science and Engineering BS side by side.xlsx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Required Courses | | 8 |
| NPRE 421 | Plasma and Fusion Science | 3 |
| NPRE 423 | Plasma Laboratory | 2 |
| NPRE 429 | Plasma Engineering | 3 |
| Technical Electives | | 9 |
| From Departmentally Approved List of Technical Electives - students are to take at least 9 hours. This includes technical electives from NPRE or from other departments in the subfields Physical Science, Electrical Engineering, or Electronic Materials. The student is to confer with their academic adviser on a chosen course set to ensure that a strong program is achieved. | | |
| ~~Common Engineering and Technical Electives~~ | | |
| NPRE 199 | Undergraduate Open Seminar (May be repeated in separate terms to a maximum of 2 times.) | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 470 | Fuel Cells & Hydrogen Sources | 3 |
| NPRE 481 | Writing on Technol & Security | 3 or 4 |
| NPRE 498 | Special Topics | 1 to 4 |
| STAT 400 | Statistics and Probability I | 4 |

| Code | Title | Hours |
|---|---|---|
| Physical Science Electives | | |
| CHEM 104 | General Chemistry II | 3 |
| CHEM 105 | General Chemistry Lab II | 1 |
| PHYS 435 | Electromagnetic Fields I | 3 |
| PHYS 436 | Electromagnetic Fields II | 3 |
| PHYS 460 | Condensed Matter Physics | 4 |
| Electrical Engineering Electives | | |
| ECE 329 | Fields and Waves I | 3 |
| ECE 340 | Semiconductor Electronics | 3 |
| ECE 441 | Physcs & Modeling Semicond Dev | 3 |
| ECE 444 | IC Device Theory & Fabrication | 4 |
| Electronic Materials Electives | | |
| MSE 304 | Electronic Properties of Matls | 3 |
| MSE 403 | Synthesis of Materials | 3 |
| MSE 460 | Electronic Materials I | 3 |
| MSE 461 | Electronic Materials II | 3 |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Nuclear, Plasma, and Radiological Engineering, BS |

## Program Features

Academic Level: Undergraduate

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

Will not impact enrollment nor degrees awarded.

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?
No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?
No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?
No

## Technology

Will the program need additional technology beyond what is currently available for the unit?
No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

These changes will not impact our faculty resources.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

There is no impact to the use of the Library collections resources, and services.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Plasma and Fusion Science and Engineering |
| Program Code: | 3914 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | | Conc Code | 3914 | Degree Code | BS | | Major Code |
| 5183 | | | | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |

| | |
|---|---|
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/18/22 9:21 am):** Administrative approval: Doesn't change total hours or restrict student choice. |

Key: 1111

GREEN HIGHLIGHT = Course addition, requirement replacement or updated hours
RED HIGHLIGHT = Course to be removed from listed requirements
YELLOW HIGHLIGHT = Revision to requirement

## Current Program of Study

| | | |
|---|---|---|
| NPRE 421 | Plasma and Fusion Science | 3 |
| NPRE 423 | Plasma Laboratory | 2 |
| NPRE 429 | Plasma Engineering | 3 |

Remaining 9 credit hours of technical electives selected from departmentally approved Plasma and Fusion Science and Engineering elective course work in Common Engineering and Technical Electives or one of the following subfields: Physical Science, Electrical Engineering, or Electronic Materials. The student's academic advisor must approve the chosen course set to ensure that a strong program is achieved.

| | | |
|---|---|---|
| Common Engineering and Technical Electives | | |
| | Undergraduate Open Seminar | |
| NPRE 199 | | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 470 | Fuel Cells & Hydrogen Sources | 3 |
| NPRE 481 | Writing on Technol & Security [5] | 3 or 4 |
| NPRE 498 | Special Topics | 1 to 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Physical Science Electives | | |
| CHEM 104 | General Chemistry II | 3 |
| CHEM 105 | General Chemistry Lab II | 1 |
| PHYS 435 | Electromagnetic Fields I | 3 |
| PHYS 436 | Electromagnetic Fields II | 3 |
| PHYS 460 | Condensed Matter Physics | 4 |
| Electrical Engineering Electives | | |
| ECE 329 | Fields and Waves I | 3 |
| ECE 340 | Semiconductor Electronics | 3 |
| ECE 441 | Physics & Modeling Semicond Dev | 3 |
| ECE 444 | IC Device Theory & Fabrication | 4 |
| Electronic Materials Electives | | |
| MSE 304 | Electronic Properties of Matls | 3 |
| MSE 403 | Synthesis of Materials | 3 |
| MSE 460 | Electronic Materials I | 3 |
| MSE 461 | Electronic Materials II | 3 |

## New Program of Study

| | | |
|---|---|---|
| **Required Courses** | | **8** |
| NPRE 421 | Plasma and Fusion Science | 3 |
| NPRE 423 | Plasma Laboratory | 2 |
| NPRE 429 | Plasma Engineering | 3 |

| | | |
|---|---|---|
| Technical Electives | | 9 |
| From Departmentally Approved List of Technical Electives - students are to take at least 9 hours. This includes technical electives from NPRE or from other departments in the subfields Physical Science, Electrical Engineering, or Electronic Materials. The student is to confer with their academic adviser on a chosen course set to ensure that a strong program is achieved. | | 9 |
| | | |
| NPRE 199 | Undergraduate Open Seminar (May be repeated in separate terms to a maximum of 2 times. | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 470 | Fuel Cells & Hydrogen Sources | 3 |
| NPRE 481 | Writing on Technol & Security [5] | 3 or 4 |
| NPRE 498 | Special Topics | 1 to 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Physical Science Electives | | |
| CHEM 104 | General Chemistry II | 3 |
| CHEM 105 | General Chemistry Lab II | 1 |
| PHYS 435 | Electromagnetic Fields I | 3 |
| PHYS 436 | Electromagnetic Fields II | 3 |
| PHYS 460 | Condensed Matter Physics | 4 |
| Electrical Engineering Electives | | |
| ECE 329 | Fields and Waves I | 3 |
| ECE 340 | Semiconductor Electronics | 3 |
| ECE 441 | Physics & Modeling Semicond Dev | 3 |
| ECE 444 | IC Device Theory & Fabrication | 4 |
| Electronic Materials Electives | | |
| MSE 304 | Electronic Properties of Matls | 3 |
| MSE 403 | Synthesis of Materials | 3 |
| MSE 460 | Electronic Materials I | 3 |
| MSE 461 | Electronic Materials II | 3 |

Date Submitted: 12/09/21 9:46 am

Viewing: **3915 : Nuclear, Plasma, & Radiological Engineering: Radiological, Medical & Instrumentation Applications, BS**

Last approved: 12/03/21 11:25 am

Last edit: 01/18/22 9:26 am

Changes proposed by: Becky Meline

| | |
|---|---|
| Catalog Pages Using this Program | Nuclear, Plasma, and Radiological Engineering: Radiological, Medical & Instrumentation Applications, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1973 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 12/10/21 9:37 am Deb Forgacs (dforgacs): Approved for U Program Review
2. 12/10/21 9:44 am Rizwan Uddin (rizwan): Approved for 1973 Head
3. 01/11/22 1:06 pm Brooke Newell (bsnewell): Approved for KP Committee Chair
4. 01/11/22 1:17 pm Candy Deaville (candyd): Approved for KP Dean
5. 01/11/22 1:50 pm John Wilkin (jpwilkin): Approved for

University Librarian
6. 01/18/22 9:30 am Kathy Martensen (kmartens): Approved for Provost

## History

1. Nov 17, 2021 by Brooke Newell (bsnewell)
2. Dec 3, 2021 by Deb Forgacs (dforgacs)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Nuclear, Plasma, & Radiological Engineering: Radiological, Medical & Instrumentation Applications, BS |
| Sponsor College | Grainger College of Engineering |
| Sponsor Department | Nuclear, Plasma & Rad Engr |
| Sponsor Name | Tomasz Kozlwsoki |
| Sponsor Email | txk@illinois.edu |
| College Contact | Brooke Newell |
| College Contact Email | bsnewell@illinois.edu |
| College Budget Officer | Tessa Hile |
| College Budget Officer Email | tmhile@illinois.edu |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the Radiological, Medical & Instrumentation Applications concentration in the BS in NPRE:

Revised course table for clarity. Removed two courses from tech electives list. Removed a course from a sub-section.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

See NPRE key 123.

## Program Justification

Why are these changes necessary?

Revised course table for clarity and for consistency with the other two concentrations.

Removal of two courses from the tech electives list and remove unnecessary duplication: ME 310 was previously a technical elective for students in this concentration, but is now a required course for all NPRE students, therefore it needs to be removed from the tech elective list for radiological. NPRE 421 is no longer a relevant elective.

Removal of BIOE 120 from course list of Technical Electives as it was an unnecessary duplication and more relevant in other sub-sections.

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

NA

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs: NPRE Radiological, Medical & Instrumentation Applications BS side by side.xlsx

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Required Courses | | 5 |
| NPRE 435 | Radiological Imaging | 3 |
| NPRE 452 | Advanced Radiological Science Lab | 2 |
| Technical Electives | | 12 |
| From Departmentally Approved List of Technical Electives - students are to take at least 12 hours. This includes technical electives from NPRE or from other departments in the subfields Biomolecular Engineering and Biomedical Engineering. The student is to confer with their academic adviser on a chosen course set to ensure that a strong program is achieved. | | |
| ~~Common Engineering and Technical Electives~~ | | |
| CHEM 104 | General Chemistry II | 3 |
| CHEM 105 | General Chemistry Lab II | 1 |

| Code | Title | Hours |
|---|---|---|
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| CHEM 233 | Elementary Organic Chem Lab I | 2 |
| IB 150 | Organismal & Evolutionary Biol | 4 |
| IB 151 | Organismal & Evol Biol Lab | 1 |
| ~~ME 310~~ | ~~Fundamentals of Fluid Dynamics~~ | ~~4~~ |
| MCB 150 | Molec & Cellular Basis of Life | 4 |
| MCB 151 | Molec & Cellular Laboratory | 1 |
| NPRE 199 | Undergraduate Open Seminar (May be repeated in separate terms to a maximum of 2 times.) | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| ~~NPRE 421~~ | ~~Plasma and Fusion Science~~ | ~~3~~ |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 481 | Writing on Technol & Security | 3 or 4 |
| NPRE 498 | Special Topics | 1 to 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Biomolecular Engineering Electives | | |
| BIOE 120 | Introduction to Bioengineering | 1 |
| BIOE 414 | Biomedical Instrumentation | 3-4 |
| or CHBE 472 | Techniques in Biomolecular Eng | |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| MCB 450 | Introductory Biochemistry | 3 |
| MCB 401 | Cellular Physiology | 3 |
| or BIOP 401 | Introduction to Biophysics | |
| MCB 403 | Cell & Membrane Physiology Lab | 1 or 2 |
| Biomedical Engineering Electives | | |
| ~~BIOE 120~~ | ~~Introduction to Bioengineering~~ | ~~1~~ |
| BIOE 120 | Introduction to Bioengineering | 1 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| ECE 380 | Biomedical Imaging | 3 |
| BIOE 414 | Biomedical Instrumentation | 3-4 |
| or CHBE 472 | Techniques in Biomolecular Eng | |
| BIOE 415 | Biomedical Instrumentation Lab | 2 |
| ECE 480 | Magnetic Resonance Imaging | 3 or 4 |
| MCB 250 | Molecular Genetics | 3 |
| MCB 252 | Cells, Tissues & Development | 3 |
| MCB 401 | Cellular Physiology | 3 |

| Code | Title | Hours |
|---|---|---|
| or BIOP 401 | Introduction to Biophysics | |
| MCB 402 | Sys & Integrative Physiology | 3 |
| MCB 403 | Cell & Membrane Physiology Lab | 1 or 2 |
| MCB 404 | Sys & Integrative Physiol Lab | 1 to 2 |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Nuclear, Plasma, and Radiological Engineering, BS |

## Program Features

Academic Level: Undergraduate

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:
On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

Revision will not impact enrollment nor degrees awarded.

## Budget

Are there budgetary implications for: No

this revision?

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

These changes will not impact our faculty resources.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

There is no impact to the use of the Library collections, resources, and services.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Radiological, Medical, and Instrumental Applications |
| Program Code: | 3915 |

| | | | | | |
|---|---|---|---|---|---|
| Minor Code | Conc Code | 3915 | Degree Code | BS | Major Code |
| 5183 | | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |

| | |
|---|---|
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Brooke Newell (bsnewell) (12/08/21 3:46 pm):** Rollback: See email<br>**Kathy Martensen (kmartens) (01/18/22 9:25 am):** Administrative approval: Does not change total hours required or restrict student choice. |

Key: 1112

GREEN HIGHLIGHT = Course addition, requirement replacement or updated hours
RED HIGHLIGHT = Course to be removed from listed requirements
YELLOW HIGHLIGHT = Revision to requirement

## Current Program of Study

| | | |
|---|---|---|
| NPRE 435 | Radiological Imaging | 3 |
| NPRE 452 | Advanced Radiological Science Lab | 2 |

Remaining 12 credit hours from the Technical electives on the departmentally approved Radiological, Medical and Instrumentation Applications elective course work in Common Engineering and Technical Electives or one of the following subfields: Biomolecular Engineering, Biomedical Engineering, and Radiation Detection and Analysis. The student's academic advisor must approve the chosen course set to ensure that a strong program is achieved.

| | | |
|---|---|---|
| Common Engineering and Technical Electives | | |
| BIOE 120 | Introduction to Bioengineering | 1 |
| CHEM 104 | General Chemistry II | 3 |
| CHEM 105 | General Chemistry Lab II | 1 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| CHEM 233 | Elementary Organic Chem Lab I | 2 |
| IB 150 | Organismal & Evolutionary Biol | 4 |
| IB 151 | Oranismal & Evol Biol Lab | 1 |
| ME 310 | Fundamentals of Fluid Dynamics | 4 |
| MCB 150 | Molec & Cellular Basis of Life | 4 |
| MCB 151 | Molec & Cellular Laboratory | 1 |
| NPRE 199 | Undergraduate Open Seminar (May be taken up to 2 times in separate seminars for cr | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 421 | Plasma and Fusion Science | 3 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 481 | Writing on Technol & Security | 3 or 4 |
| NPRE 498 | Special Topics | 1 to 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Biomolecular Engineering Electives | | |
| BIOE 120 | Introduction to Bioengineering | 1 |
| BIO 414 or CHBE 472 | Biomedical Instrumentation or Techniques in Biomolecular Eng | 3-4 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| MCB 450 | Introductory Biochemistry | 3 |
| MCB 401 or BIOP 401 | Cellular Physiology or Introduction to Biophysics | 3 |
| MCB 403 | Cell & Membrane Physiology Labf | 1 or 2 |
| Biomedical Engineering Electives | | |
| BIOE 120 | Introduction to Bioengineering | 1 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| ECE 380 | Biomedical Imaging | 3 |
| BIO 414 or CHBE 472 | Biomedical Instrumentation or Techniques in Biomolecular Eng | 3-4 |
| BIO 415 | Biomedical Instrumentation Lab | 2 |
| ECE 480 | Magnetic Resonance Imaging | 3 or 4 |
| MCB 250 | Molecular Genetics | 3 |
| MCB 252 | Cells, Tissues & Development | 3 |
| MCB 401 or BIOP 401 | Cellular Physiology or Introduction to Biophysics | 3 |
| MCB 402 | Sys & Integrative Physiology | 3 |
| MCB 404 | Sys & Integrative Physiology Lab | 1 to 2 |

## New Program of Study

| | | |
|---|---|---|
| Required Courses | | 5 |
| NPRE 435 | Radiological Imaging | 3 |
| NPRE 452 | Advanced Radiological Science Lab | 2 |

From Departmentally Approved List of Technical Electives - students are to take at least 12 hours. This includes technical electives from NPRE or from other departments in the subfields Biomolecular Engineering and Biomedical Engineering. The student is to confer with their academic adviser on a chosen course set to ensure that a strong program is achieved.

| | | |
|---|---|---|
| Technical Electives | | 12 |
| CHEM 104 | General Chemistry II | 3 |
| CHEM 105 | General Chemistry Lab II | 1 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| CHEM 233 | Elementary Organic Chem Lab I | 2 |
| IB 150 | Organismal & Evolutionary Biol | 4 |
| IB 151 | Oranismal & Evol Biol Lab | 1 |
| MCB 150 | Molec & Cellular Basis of Life | 4 |
| MCB 151 | Molec & Cellular Laboratory | 1 |
| NPRE 199 | Undergraduate Open Seminar (May be repeated in separate terms to a maxi | 1 |
| NPRE 201 | Energy Systems | 2 or 3 |
| NPRE 398 | Special Topics | 1 to 4 |
| NPRE 461 | Probabilistic Risk Assessment | 3 or 4 |
| NPRE 481 | Writing on Technol & Security | 3 or 4 |
| NPRE 498 | Special Topics | 1 to 4 |
| STAT 400 | Statistics and Probability I | 4 |
| Biomolecular Engineering Electives | | |
| BIOE 120 | Introduction to Bioengineering | 1 |
| BIO 414 or CHBE 472 | Biomedical Instrumentation or Techniques in Biomolecular Eng | 3-4 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| MCB 450 | Introductory Biochemistry | 3 |
| MCB 401 or BIOP 401 | Cellular Physiology or Introduction to Biophysics | 3 |
| MCB 403 | Cell & Membrane Physiology Labf | 1 or 2 |
| Biomedical Engineering Electives | | |
| BIOE 120 | Introduction to Bioengineering | 1 |
| CHEM 232 | Elementary Organic Chemistry I | 3 or 4 |
| ECE 380 | Biomedical Imaging | 3 |
| BIO 414 or CHBE 472 | Biomedical Instrumentation or Techniques in Biomolecular Eng | 3-4 |
| BIO 415 | Biomedical Instrumentation Lab | 2 |
| ECE 480 | Magnetic Resonance Imaging | 3 or 4 |
| MCB 250 | Molecular Genetics | 3 |
| MCB 252 | Cells, Tissues & Development | 3 |
| MCB 401 or BIOP 401 | Cellular Physiology or Introduction to Biophysics | 3 |
| MCB 402 | Sys & Integrative Physiology | 3 |
| MCB 404 | Sys & Integrative Physiology Lab | 1 to 2 |

Date Submitted: 01/11/22 10:58 am

# Viewing: 10KL0051BS : Natural Resources & Environmental Sciences, BS

Last approved: 08/08/20 9:30 am

Last edit: 01/18/22 3:23 pm

Changes proposed by: Brianna Gregg

| | |
|---|---|
| Catalog Pages Using this Program | Natural Resources & Environmental Sciences: Human Dimensions of the Environment, BS<br>Natural Resources & Environmental Sciences: Fish, Wildlife & Conservation Biology, BS<br>Natural Resources & Environmental Sciences: Environmental Science & Management, BS<br>Natural Resources & Environmental Sciences: Ecosystem Stewardship & Restoration Ecology, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1875 Committee Chair**
3. **1875 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/12/22 2:14 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/12/22 3:09 pm James Miller (jrmillr): Approved for 1875 Committee Chair
3. 01/12/22 3:50 pm Robert Schooley (schooley): Approved for 1875 Head
4. 01/13/22 9:04 am Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:25 pm

Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:26 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/18/22 3:25 pm
Kathy Martensen (kmartens): Approved for Provost

## History

1. Mar 22, 2019 by Deb Forgacs (dforgacs)
2. Jun 12, 2020 by Susan Helmink (shelmink)
3. Aug 8, 2020 by Susan Helmink (shelmink)

Major (ex. Special Education)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Natural Resources & Environmental Sciences, BS | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Natural Res & Env Science | | |
| Sponsor Name | Jim Miller, Professor and Chair of the NRES Courses and Curriculum Committee | | |
| Sponsor Email | jrmillr@illinois.edu | | |
| College Contact | Tony Yannarell, Associate Professor and Chair of the ACES Courses and Curriculum | College Contact Email | |

| | |
|---|---|
| Committee | acyann@illinois.edu |

College Budget Officer

College Budget Officer Email

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the BS in NRES

Curricula update: Geography & GIS rubric change

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Degree Requirements tables are being updated with new GGIS course rubric (previously GEOG)

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

All subject areas/courses in the major have been selected because they specifically address the learning objectives of the major. We therefore intend to use student performance in these courses as benchmarks to ensure that students have achieved these educational goals. All courses in Natural Resources and Environmental Sciences regularly undergo peer-review assessments, and we will continue this practice for all courses in the major.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

No changes

Statement for Programs of Study Catalog

## Prescribed Courses including Campus General Education

Course List

| Code | Title | Hours |
|---|---|---|
| Composition I and Speech | | |
| Select one of the following: | | 6-7 |
| RHET 105 | Writing and Research | |
| & CMN 101 | and Public Speaking (or equivalent) (see College Composition I requirement) | |
| CMN 111 | Oral & Written Comm I | |
| & CMN 112 | and Oral & Written Comm II | |
| Advanced Composition | | |
| Select from campus approved list | | 3-4 |

| Code | Title | Hours |
|---|---|---|
| Cultural Studies | | |
| Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists. | | 9 |
| Foreign Language | | |
| Coursework at or above the third level is required for graduation. | | |
| Quantitative Reasoning I | | |
| Select one of the following: | | 4-5 |
| MATH 220 | Calculus | |
| MATH 221 | Calculus I | |
| MATH 234 | Calculus for Business I | |
| Quantitative Reasoning II | | |
| Select one of the following: | | 3-4 |
| ACE 261 | Applied Statistical Methods | |
| CPSC 241 | Intro to Applied Statistics | |
| ECON 202 | Economic Statistics I | |
| PSYC 235 | Intro to Statistics | |
| SOC 280 | Intro to Social Statistics | |
| STAT 100 | Statistics | |
| Natural Sciences and Technology | | |
| CHEM 102 | General Chemistry I | 4 |
| & CHEM 103 | and General Chemistry Lab I | |
| CHEM 104 | General Chemistry II | 4 |
| & CHEM 105 | and General Chemistry Lab II | |
| IB 103 | Introduction to Plant Biology | 4 |
| Select one of the following: | | 4-5 |
| IB 104 | Animal Biology | |
| or IB 150 | Organismal & Evolutionary Biol | |
| & IB 151 | and Organismal & Evol Biol Lab | |
| Select one of the following: | | 3-5 |
| ~~GEOG 103~~ | ~~Course GEOG 103 Not Found~~ | |
| GGIS 103 | Earth's Physical Systems | |
| GEOL 107 | Physical Geology | |
| PHYS 101 | College Physics: Mech & Heat | |
| PHYS 211 | University Physics: Mechanics | |
| MCB 100 | Introductory Microbiology | |
| Humanities and the Arts | | |
| Select from campus approved list. | | 6 |
| Social and Behavioral Sciences | | |
| ACE 100 | Introduction to Applied Microeconomics | 3-4 |
| or ECON 102 | Microeconomic Principles | |
| Select one additional course from campus approved list. | | 3-4 |
| Natural Resources and Environmental Sciences Required (Core) | | |
| NRES 102 | Introduction to NRES | 3 |
| NRES 201 | Introductory Soils | 4 |
| NRES 219 | Applied Ecology | 3 |
| NRES 287 | Environment and Society | 3 |
| NRES 325 | Natural Resource Policy Mgmt | 3 |

| Code | Title | Hours |
|---|---|---|
| NRES 348 | Fish and Wildlife Ecology | 3 |
| NRES 421 | Quantitative Methods in NRES | 3 |
| NRES 454 | GIS in Natural Resource Mgmt | 4 |
| NRES 456 | Integrative Ecosystem Management | 3 |
| NRES 285 | Field Experience | 1,2 |
| One additional Field Experience course | | 1-2 |
| NRES 285 | Field Experience (repeatable) | |
| NRES 293 | Professional Internship | |
| NRES 294 | Resident Internship | |
| NRES 295 | Undergrad Research or Thesis | |
| NRES 396 | UG Honors Research or Thesis | |
| ACES Required | | |
| ACES 101 | Contemporary Issues in ACES | 2 |
| Required Concentration | | |
| Concentration prescribed courses. See specific requirements for each concentration listed below. | | 19-29 |
| Total Hours | | 126 |

| | |
|---|---|
| Corresponding Degree | BS Bachelor of Science |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |
| Does this major have transcripted concentrations? | No |

What is the typical time to completion of this program?

4 years

What are the minimum Total Credit Hours required for this program?

126

| | |
|---|---|
| CIP Code | 030104 - Environmental Science. |

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Admission Requirements

Desired Effective Admissions Term

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Describe how critical academic functions such as admissions and student advising are managed.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

There is no impact to the annual number of degrees awarded or enrollment.

Estimated Annual Number of Degrees Awarded

| Year One Estimate | 5th Year Estimate (or when fully implemented) |
| --- | --- |
| | |

What is the matriculation term for this program?

Fall

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

These changes only impact courses currently offered, so we do not anticipate any financial costs to this revision.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Are you seeking a change in the tuition rate or differential for this program?

No

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

No impact on unit.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | BS: NRES -UIUC |
| Program Code: | 10KL0051BS |

| Minor Code | Conc Code | Degree Code | BS | Major Code |
|---|---|---|---|---|
| 0051 | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer | **Kathy Martensen (kmartens) (01/18/22 3:22 pm):** Administrative approval: No |

| | |
|---|---|
| Comments | change to total hours; doesn't restrict student choice. |

Date Submitted: 01/11/22 11:00 am

Viewing: **10KL5008BS : Agricultural & Consumer Economics: Environmental Economics and Policy, BS**

Last approved: 02/20/19 6:27 pm

Last edit: 01/18/22 3:26 pm

Changes proposed by: Brianna Gregg

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1470 Head**
3. **KL Committee Chair**
4. **KL Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 01/12/22 2:17 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/12/22 5:02 pm
   Bryan Endres (bendres):
   Approved for 1470 Head
3. 01/13/22 9:02 am
   Brianna Gregg (bjgray2):
   Approved for KL Committee Chair
4. 01/18/22 12:25 pm
   Anna Ball (aball):
   Approved for KL Dean
5. 01/18/22 12:27 pm
   John Wilkin (jpwilkin):

Approved for University Librarian
6. 01/18/22 3:27 pm Kathy Martensen (kmartens): Approved for Provost

## History

1. Feb 20, 2019 by Deb Forgacs (dforgacs)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Agricultural & Consumer Economics: Environmental Economics and Policy, BS |
| Sponsor College | Agr, Consumer, & Env Sciences |
| Sponsor Department | Agricultural and Consumer Economics |
| Sponsor Name | Sean Fox |
| Sponsor Email | seanfox@illinois.edu |
| College Contact | Brianna Gregg |
| College Contact Email | bjgray2@illinois.edu |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the concentration in Environmental Economics and Policy in the BS in Agricultural and Consumer Economics.

Curricula update: Geography & GIS rubric change

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Degree Requirements tables are being updated with new GGIS course rubric (previously GEOG)

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

Admin Migration

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals*

*for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Required for the Environmental Economics and Policy Concentration in Addition to Department Requirements | | |
| ACE 210 | Environmental Economics | 3 |
| ACE 310 | Natural Resource Economics | 3 |
| ACE 406 | Environmental Law | 3 |
| ACE 410 | Energy Economics | 3 |
| ACE 411 | Environment and Development | 3 |
| Select one of the following: | | 3 |
| ~~GEOG 379~~ | ~~Course GEOG 379 Not Found~~ | |
| GGIS 379 | Introduction to Geographic Information Systems | |
| NRES 454 | GIS in Natural Resource Mgmt | |
| UP 418 | GIS for Planners | |
| Total Hours | | 18 |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Agricultural & Consumer Economics, BS |

## Program Features

Academic Level Undergraduate

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

There is no impact to the annual number of degrees awarded or enrollment.

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Admin Migration

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

No impact on unit.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

# DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | BS:ACE-Envmntl Econ&Plcy -UIUC |
| Program Code: | 10KL5008BS |

| Minor Code | Conc Code | 5008 | Degree Code | BS | Major Code |
|---|---|---|---|---|---|
| 0176 | | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/18/22 3:25 pm):** Administrative approval: No change to total hours; doesn't restrict student choice. |

Key: 599

Date Submitted: 01/13/22 1:36 pm

# Viewing: 10KL6028BS : Engineering Technology and Management for Agricultural Systems, BS

Last approved: 06/28/21 4:04 pm

Last edit: 01/18/22 3:28 pm

Changes proposed by: Heather Crump

| | |
|---|---|
| Catalog Pages Using this Program | Engineering Technology & Management for Agricultural Systems, BS<br>Engineering Technology & Management for Agricultural Systems, BS |

Engineering Technology & Management for Agricultural Systems: Agricultural Production & Processing, BS
Engineering Technology & Management for Agricultural Systems: Construction Management, BS
Engineering Technology & Management for Agricultural Systems: Digital & Precision Agriculture, BS
Engineering Technology & Management for Agricultural Systems: Energy & the Environment, BS
Engineering Technology & Management: Agricultural Production & Processing, BS
Engineering Technology & Management for Agricultural Systems: Agricultural Production & Processing, BS
Engineering Technology & Management for Agricultural Systems: Construction Management, BS
Engineering Technology & Management for Agricultural Systems: Digital & Precision Agriculture, BS
Engineering Technology & Management for Agricultural Systems: Energy & the Environment, BS

Proposal Type:

## In Workflow

1. U Program Review
2. 1741 Committee Chair
3. 1741 Head
4. KL Committee Chair
5. KL Dean
6. University Librarian
7. Provost
8. Senate EPC
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/13/22 3:22 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/13/22 3:27 pm Kent Rausch (krausch): Approved for 1741 Committee Chair
3. 01/13/22 3:47 pm Ronaldo Maghirang (ronaldom): Approved for 1741 Head
4. 01/14/22 9:50 am Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:25

pm
Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:27 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/18/22 4:41 pm
Kathy Martensen (kmartens): Approved for Provost

## History

1. Jun 28, 2021 by Anne Marie Boone (aboone)

Major (ex. Special Education)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Engineering Technology and Management for Agricultural Systems, BS | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Agricultural & Biological Engr | | |
| Sponsor Name | Kent Rausch | | |
| Sponsor Email | krausch@illinois.edu | | |
| College Contact | Anna Ball | College Contact Email | aball@illinois.edu |
| College Budget Officer | | | |
| College Budget Officer Email | | | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the BS in ETMAS

changing rubric from TSM to ETMA

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?
changing rubric from TSM to ETMA

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?
No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The Engineering Technology and Management for Agricultural Systems (formerly Technical Systems Management) program is designed to prepare graduates for careers in management, marketing, operations, maintenance, and application of agricultural and biological engineering technologies within the realms of agriculture, food, energy, water, and the environment. Graduates are expected to understand problems and concerns in engineering technologies from production to processing through distribution and their social and cultural implications. Specific program learning objectives are:

Objective 1: Provide academic and technical knowledge and experiences needed for success in an increasingly technological agricultural industry and world.

Objective 2: Enhance students' abilities to formulate questions and find solutions both individually and as a part of a team.

Objective 3: Improve students' abilities to communication both written and oral forms.

Objective 4: Enhance the use and understanding of mathematics and calculation for analysis in technology and business.

Objective 5: Provide opportunities to learn and enhance professional and ethical values and leadership skills.

Objective 6: Understand their role in society and the social and cultural implications of practice in their profession.

Objective 7: Recognize the need for and develop the abilities to engage in life-long learning.

Objective 8: Understand the global nature of agriculture and business.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs Attach a side-by-side comparison with the existing program

AND, if the revision references or adds “chose-from” lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

The major in Engineering Technology and Management for Agricultural Systems is designed to prepare students as problem solvers for systems involving the application, management, and/or marketing of engineering technologies. Students are instructed in engineering and business principles in preparation as technically competent business persons for professional careers as entrepreneurs, marketing representatives, or plant managers working with service organizations, manufacturers, corporate farms, retail dealers, power suppliers, contractors, or management companies from production through processing and distribution. Students will select a concentration in Agricultural Production and Processing, Construction Management, Digital and Precision Agriculture, or Energy and the Environment.

Statement for Programs of Study Catalog

## Prescribed Courses including Campus General Education

Course List

| Code | Title | Hours |
|---|---|---|
| Composition I and Speech | | |
| Select one of the following: | | 6-7 |
| RHET 105 | Writing and Research | |
| & CMN 101 | and Public Speaking (or equivalent (see college Composition I requirement)) | |
| CMN 111 | Oral & Written Comm I | |
| & CMN 112 | and Oral & Written Comm II | |
| Advanced Composition | | 3-4 |
| Select from the list below | | |
| AGCM 220 | Communicating Agriculture | |
| BADM 340 | Ethical Dilemmas of Business | |
| BTW 250 | Principles Bus Comm | |
| BTW 261 | Principles Tech Comm | |
| ECE 316 | Ethics and Engineering | |
| ESE 360 | Environmental Writing | |
| ETMA 311 | Humanity in the Food Web | |
| LEAD 230 | Leadership Communications | |
| NRES 419 | Env and Plant Ecosystems | |
| PLPA 200 | Plants, Pathogens, and People | |
| ~~TSM 311~~ | ~~Course TSM 311 Not Found~~ | |
| Cultural Studies | | 9 |
| Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists. | | |

| Code | Title | Hours |
|---|---|---|
| Foreign Language | | |
| Coursework at or above the third level is required for graduation. | | |
| Quantitative Reasoning I | | |
| MATH 234 | Calculus for Business I (or equivalent) | 4 |
| Quantitative Reasoning II | | 3 or 4 |
| Select one of the following: | | |
| ACE 262 | Applied Statistical Methods and Data Analytics I | |
| CPSC 241 | Intro to Applied Statistics | |
| ECON 202 | Economic Statistics I | |
| STAT 107 | Data Science Discovery | |
| Natural Sciences and Technology | | |
| CHEM 102 | General Chemistry I | 4 |
| & CHEM 103 | and General Chemistry Lab I | |
| PHYS 101 | College Physics: Mech & Heat | 5 |
| Select one of the following: | | 4-5 |
| CHEM 104 | General Chemistry II | |
| & CHEM 105 | and General Chemistry Lab II | |
| OR | | |
| PHYS 102 | College Physics: E&M & Modern | |
| Humanities and the Arts | | |
| Select from campus approved list. | | 6 |
| Social and Behavioral Sciences | | |
| ACE 100 | Introduction to Applied Microeconomics | 3-4 |
| or ECON 102 | Microeconomic Principles | |
| Social and behavioral sciences. Select from campus approved list. | | 3 or 4 |
| ACES Prescribed | | |
| ACES 101 | Contemporary Issues in ACES | 2 |
| ETMA Required | | |
| CS 105 | Intro Computing: Non-Tech | 3 |
| ~~TSM 100~~ | ~~Course TSM 100 Not Found~~ | ~~3~~ |
| ~~TSM 339~~ | ~~Course TSM 339 Not Found~~ | ~~3~~ |
| ~~TSM 421~~ | ~~Course TSM 421 Not Found~~ | ~~3~~ |
| ~~or TSM 422~~ | ~~Course TSM 422 Not Found~~ | |
| ~~TSM 430~~ | ~~Course TSM 430 Not Found~~ | ~~2~~ |
| ~~TSM 439~~ | ~~Course TSM 439 Not Found~~ | ~~4~~ |
| ETMA 100 | Technical Systems in Agr | 3 |
| ETMA 339 | Optimization in Engineering Technology and Management | 3 |
| ETMA 421 | Industrial and Agricultural Safety-Injury Prevention | 3 |
| or ETMA 422 | Industrial and Agricultural Occupational Illness Prevention | |
| ETMA 430 | Project Management | 2 |
| ETMA 439 | Capstone Experience | 4 |
| Business electives | | 6 |
| A total of 6 hours from the Business Electives list which do not satisfy any other requirements. | | |
| ACCY 200 | Fundamentals of Accounting | 3 |
| ACCY 201 | Accounting and Accountancy I | 3 |

| Code | Title | Hours |
|---|---|---|
| ACCY 202 | Accounting and Accountancy II | 3 |
| ACCY 211 | Understanding Financial Statements | 3 |
| ACCY 212 | Understanding Accounting for Business Decisions | 3 |
| ACE 210 | Environmental Economics | 3 |
| ACE 240 | Personal Financial Planning | 3 |
| ACE 310 | Natural Resource Economics | 3 |
| ACE 345 | Finan Decision Indiv Sm Bus | 3 |
| ACE 346 | Tax Policy and Finan Planning | 3 |
| ACE 432 | Advanced Farm Management | 3 or 4 |
| ACE 435 | Global Agribusiness Management | 3 |
| AGCM 270 | Ag Sales and Persuasive Communication | 3 |
| BADM 300 | The Legal Environment of Bus | 3 |
| BADM 310 | Mgmt and Organizational Beh | 3 |
| BADM 311 | Leading Individuals and Teams | 3 |
| BADM 312 | Designing and Managing Orgs | 3 |
| BADM 313 | Strategic Human Resource Management | 3 |
| BADM 314 | Leading Negotiations | 3 |
| BADM 320 | Principles of Marketing | 3 |
| BADM 322 | Marketing Research | 3 |
| BADM 323 | Marketing Communications | 3 |
| BADM 326 | Pricing Strategy | 3 |
| FIN 221 | Corporate Finance | 3 |
| FIN 230 | Introduction to Insurance | 3 |
| LER 290 | Introduction to Employment Law | 3 |
| LEAD 140 | Harnessing Your Interpersonal Intelligence | 2 |
| LEAD 260 | Foundations of Leadership | 3 |
| LEAD 340 | Leadership Ethics & Society: Addressing Contemporary Challenges | 3 |
| LEAD 380 | Leadership in Groups and Teams | 3 |
| LEAD 440 | Interpersonal Intelligence for Professional Success | 2 |
| SE 361 | Emotional Intelligence Skills | 3 |
| SE 400 | Engineering Law | 3 or 4 |
| TE 230 | Design Thinking/Need-Finding | 3 |
| TE 250 | From Idea to Enterprise | 2 |
| TE 333 | Creativity, Innovation, Vision | 4 |
| TE 360 | Lectures in Engineering Entrepreneurship | 1 |
| TE 450 | Startups: Incorporation, Funding, Contracts, & Intellectual Property | 3 |
| Introductory Related Courses | | |
| Select 2 courses from the list for your concentration. | | 6-8 |
| ETMA Electives | | |
| A total of 20 hours from the list for your concentration with a minimum of 11 hours at the advanced level. | | 20 |
| Concentration Electives | | |
| Select 18 hours from the list for your concentration, which do not satisfy any other requirements, with a minimum of 12 hours at the advanced level. | | 18 |
| Total Hours | | 126 |

| Code | Title | Hours |
|---|---|---|

ETMAS majors will need 40 hours of upper-level courses (300- and 400-level) to satisfy the campus minimum requirement of 40 hours of advanced coursework.

Corresponding Degree: BS Bachelor of Science

## Program Features

Academic Level: Undergraduate

Does this major have transcripted concentrations? No

What is the typical time to completion of this program?

4 years

What are the minimum Total Credit Hours required for this program?

126

CIP Code: 140301 - Agricultural Engineering.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

Yes

Describe the plans for seeking specialized accreditation:

Yes. Within the next 5 years, accreditation by the Engineering Technology Accreditation Commission (ETAC) of ABET will be sought.

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Admission Requirements

Desired Effective Admissions Term: Fall 2021

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Admission requirements are unchanged from the existing TSM curriculum.

Describe how critical academic functions such as admissions and student advising are managed.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

changing rubric from TSM to ETMA

Estimated Annual Number of Degrees Awarded

| Year One Estimate | 5th Year Estimate (or when fully implemented) |
| --- | --- |
| | |

What is the matriculation term for this program?

Fall

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

There will be no budgetary obligations due to this curriculum revision for the revised TSM program. The curriculum revision will be carried out with existing resources.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Are you seeking a change in the tuition rate or differential for this program?

No

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

changing rubric from TSM to ETMA

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

changing rubric from TSM to ETMA

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval | |

| | |
|---|---|
| Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | BS:Engr Tech & Mgt Ag Sys-UIUC |
| Program Code: | 10KL6028BS |

| Minor Code | Conc Code | Degree Code | BS | Major Code |
|---|---|---|---|---|
| 6028 | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/18/22 3:28 pm):** Administrative approval: No change to total hours; doesn't restrict student choice. |

Date Submitted: 01/13/22 1:32 pm

Viewing: **6002 : Engineering Technology & Management for Agricultural Systems: Agricultural Production & Processing,**

Last approved: 06/28/21 3:59 pm

Last edit: 01/18/22 4:43 pm

Changes proposed by: Heather Crump

| | |
|---|---|
| Catalog Pages Using this Program | Engineering Technology & Management for Agricultural Systems: Agricultural Production & Processing, BS<br>Engineering Technology & Management: Agricultural Production & Processing, BS |

Engineering Technology & Management for Agricultural Systems: Agricultural Production & Processing, BS

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1741 Committee Chair**
3. **1741 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/13/22 3:30 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/13/22 3:39 pm Kent Rausch (krausch): Approved for 1741 Committee Chair
3. 01/13/22 3:49 pm Ronaldo Maghirang (ronaldom): Approved for 1741 Head
4. 01/13/22 4:29 pm Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:26

pm
Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:29 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/18/22 4:53 pm
Kathy Martensen (kmartens): Approved for Provost

## History

1. Jun 28, 2021 by Anne Marie Boone (aboone)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Engineering Technology & Management for Agricultural Systems: Agricultural Production & Processing, | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Agricultural & Biological Engr | | |
| Sponsor Name | Kent Rausch | | |
| Sponsor Email | krausch@illinois.edu | | |
| College Contact | Anna Ball | College Contact Email | aball@illinois.edu |
| College Budget Officer | | | |
| College Budget | | | |

Officer Email

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the Agricultural Production & Processing concentration within the BS in ETMAS

Establish the Agricultural Production and Processing concentration under the Engineering Technology & Management for Agricultural Systems, BS.
This program is related to the Engineering Technology & Management for Agricultural Systems, BS revision proposal key: 73
The Construction Management concentration proposal key: 1010
The Digital and Precision Agriculture concentration proposal key: 1011
and the Energy and the Environment concentration proposal key: 1012

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

changing rubric from TSM to ETMA

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The Engineering Technology and Management for Agricultural Systems (formerly Technical Systems Management) program is designed to prepare graduates for careers in management, marketing, operations, maintenance, and application of agricultural and biological engineering technologies within the realms of agriculture, food, energy, water, and the environment. Graduates are expected to understand problems and concerns in engineering technologies from production to processing through distribution and their social and cultural implications. Specific program learning objectives are:

Objective 1: Provide academic and technical knowledge and experiences needed for success in an increasingly technological agricultural industry and world.

Objective 2: Enhance students' abilities to formulate questions and find solutions both individually and as a part of a team.

Objective 3: Improve students' abilities to communication both written and oral forms.

Objective 4: Enhance the use and understanding of mathematics and calculation for analysis in technology and business.

Objective 5: Provide opportunities to learn and enhance professional and ethical values and leadership skills.

Objective 6: Understand their role in society and the social and cultural implications of practice in their profession.

Objective 7: Recognize the need for and develop the abilities to engage in life-long learning.

Objective 8: Understand the global nature of agriculture and business.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs Attach a side-by-side comparison with the existing program

AND, if the revision references or adds “chose-from” lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Introductory Related Courses | | |
| Select two courses from this list: | | |
| ACES 102 | Intro Sustainable Food Systems | |
| ANSC 100 | Intro to Animal Sciences | |
| CPSC 112 | Introduction to Crop Sciences | |
| HORT 100 | Introduction to Horticulture | |
| FSHN 101 | The Science of Food and How it Relates to You | |
| LEAD 260 | Foundations of Leadership | |
| MFST 101 | Experiencing Food Systems | |
| NRES 201 | Introductory Soils | |
| ETMA Electives | | |
| Required: | | |
| ~~TSM 103~~ | ~~Course TSM 103 Not Found~~ | ~~2~~ |
| ETMA 103 | Agricultural Machinery and Technology | |
| Select an additional 18 hours from the below list for a total of 20 hours with a minimum of 11 hours at the advanced level | | |
| ~~TSM 130~~ | ~~Course TSM 130 Not Found~~ | |
| ~~TSM 132~~ | ~~Course TSM 132 Not Found~~ | |
| ~~TSM 232~~ | ~~Course TSM 232 Not Found~~ | |
| ~~TSM 233~~ | ~~Course TSM 233 Not Found~~ | |
| ~~TSM 234~~ | ~~Course TSM 234 Not Found~~ | |
| ~~TSM 262~~ | ~~Course TSM 262 Not Found~~ | |
| ~~TSM 295~~ | ~~Course TSM 295 Not Found~~ | |
| ~~TSM 352~~ | ~~Course TSM 352 Not Found~~ | |
| ~~TSM 363~~ | ~~Course TSM 363 Not Found~~ | |
| ~~TSM 371~~ | ~~Course TSM 371 Not Found~~ | |
| ~~TSM 372~~ | ~~Course TSM 372 Not Found~~ | |
| ~~TSM 381~~ | ~~Course TSM 381 Not Found~~ | |
| ~~TSM 396~~ | ~~Course TSM 396 Not Found~~ | |
| ~~TSM 425~~ | ~~Course TSM 425 Not Found~~ | |
| ~~TSM 435~~ | ~~Course TSM 435 Not Found~~ | |
| ~~TSM 464~~ | ~~Course TSM 464 Not Found~~ | |
| ~~TSM 467~~ | ~~Course TSM 467 Not Found~~ | |

| Code | Title | Hours |
|---|---|---|
| ~~TSM 486~~ | ~~Course TSM 486 Not Found~~ | |
| ~~TSM 496~~ | ~~Course TSM 496 Not Found~~ | |
| ETMA 130 | Basics of CAD | |
| ETMA 132 | Basics of Project Management | |
| ETMA 232 | Materials and Construction Sys | |
| ETMA 233 | Metallurgy & Welding Process | |
| ETMA 234 | Wiring, Motors and Control Sys | |
| ETMA 262 | Off-Road Equipment Management | |
| ETMA 295 | Undergrad Research or Thesis | |
| ETMA 352 | Land and Water Mgt Systems | |
| ETMA 363 | Fluid Power Systems | |
| ETMA 371 | Residential Housing Design | |
| ETMA 372 | Environ Control & HVAC Systems | |
| ETMA 381 | Grain Drying & Storage Systems | |
| ETMA 396 | UG Honors Research or Thesis | |
| ETMA 425 | Managing Industrial and Agricultural Safety Risks | |
| ETMA 435 | Elec Computer Ctrl Sys | |
| ETMA 464 | Engine and Tractor Power | |
| ETMA 467 | Precision Agric Technology | |
| ETMA 486 | Grain Bioprocessing Coproducts | |
| ETMA 496 | Independent Study | |
| Concentration Electives | | |
| Select 18 hours from the lists below with a minimum of 12 hours at the advanced level | | |
| Select two from the Food and Agricultural Marketing Management and Law category | | |
| Food and Agricultural Marketing Management and Law | | |
| ACE 222 | Agricultural Marketing | |
| ACE 231 | Food and Agribusiness Mgt | |
| ACE 232 | Farm Management | |
| ACE 306 | Food Law | |
| ACE 403 | Agricultural Law | |
| ACE 427 | Commodity Price Analysis | |
| ACE 428 | Commodity Futures and Options | |
| ACE 430 | Food Marketing | |
| ACE 431 | Agri-food Strategic Management | |
| ACE 432 | Advanced Farm Management | |
| ACE 435 | Global Agribusiness Management | |
| Pick four classes from no more than two of these categories: | | |
| Animal Production & Processing | | |
| ANSC 219 | Meat Technology | |
| ANSC 223 | Animal Nutrition | |
| ANSC 301 | Food Animal Production, Management, and Evaluation | |
| ANSC 310 | Meat Selection and Grading | |
| ANSC 322 | Livestock Feeds and Feeding | |
| ANSC 400 | Dairy Herd Management | |
| ANSC 401 | Beef Production | |
| ANSC 402 | Sheep and Goat Production | |
| ANSC 403 | Pork Production | |

| Code | Title | Hours |
|---|---|---|
| ANSC 404 | Poultry Science | |
| ANSC 424 | Pet Food & Feed Manufacturing | |
| Food Production & Processing | | |
| FSHN 232 | Science of Food Preparation | |
| FSHN 260 | Raw Materials for Processing | |
| FSHN 345 | Strategic Operations Management | |
| FSHN 460 | Food Processing Engineering | |
| FSHN 465 | Principles of Food Technology | |
| FSHN 469 | Package Engineering | |
| FSHN 471 | Food & Industrial Microbiology | |
| FSHN 472 | Applied Food Microbiology | |
| Horticultural Production & Processing | | |
| HORT 205 | Local Food Systems | |
| HORT 341 | Greenhouse Mgmt and Production | |
| HORT 360 | Vegetable Crop Production | |
| HORT 361 | Small Fruit Production | |
| HORT 363 | Postharvest Handling Hort Crop | |
| HORT 435 | Urban Food Production | |
| PLPA 405 | Plant Disease Diagnosis & Mgmt | |
| Crop Production & Processing | | |
| CPSC 212 | Introduction to Plant Protection | |
| CPSC 270 | Applied Entomology | |
| CPSC 408 | Integrated Pest Management | |
| CPSC 412 | Principles of Crop Production | |
| CPSC 414 | Forage Crops & Pasture Ecology | |
| CPSC 415 | Bioenergy Crops | |
| CPSC 418 | Crop Growth and Management | |
| CPSC 426 | Weed Mgt in Agronomic Crops | |
| CPSC 473 | Mgmt of Field Crop Insects | |
| NRES 474 | Soil and Water Conservation | |
| NRES 488 | Soil Fertility and Fertilizers | |
| PLPA 405 | Plant Disease Diagnosis & Mgmt | |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Engineering Technology and Management for Agricultural Systems, BS |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |
| Is This a Teacher Certification Program? | No |

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

changing rubric from TSM to ETMA

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available? No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

There will be no budgetary obligations due to this curriculum revision for the revised TSM program. The curriculum revision will be carried out with existing resources.

Will the unit need to seek campus or other external resources? No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

The concentration does not necessitate the hiring of additional instructors or faculty, nor does it require additional resources with regard to equipment of instructional facilities. All of the courses being added to the TSM core or the concentrations already have capacity to accommodate any additional students that may take them as a result of the proposed changes. Thus, ABE department will not need to create additional capacity to resource the proposed program, nor will it need to cease support of other functions or programs.

This concentration should not have any significant impact on the enrollment in other units.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

No impact is anticipated.

## EP Documentation

| | |
|---|---|
| EP Control | EP.22.068 |

| | |
|---|---|
| Number | |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Agricultural Production and Processing |
| Program Code: | 6002 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | | Conc Code | 6002 | Degree Code | BS | | Major Code |
| 6028 | | | | | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Emily Stuby (eastuby) (01/13/22 3:28 pm):** Removing old DMI documentation.<br>**Kathy Martensen (kmartens) (01/18/22 4:42 pm):** Administrative approval: No change to total hours required; doesn't restrict student choice. |

Key: 1009

Date Submitted: 01/13/22 1:33 pm

Viewing: **6003 : Engineering Technology & Management for Agricultural Systems: Construction Management, BS**

Last approved: 06/28/21 4:01 pm

Last edit: 01/18/22 4:54 pm

Changes proposed by: Heather Crump

| | |
|---|---|
| Catalog Pages Using this Program | Engineering Technology & Management for Agricultural Systems: Construction Management, BS<br>Engineering Technology & Management for Agricultural Systems: Construction Management, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1741 Committee Chair**
3. **1741 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/13/22 3:31 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/13/22 3:40 pm Kent Rausch (krausch): Approved for 1741 Committee Chair
3. 01/13/22 3:49 pm Ronaldo Maghirang (ronaldom): Approved for 1741 Head
4. 01/13/22 4:29 pm Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:26

pm
Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:29 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/18/22 4:58 pm
Kathy Martensen (kmartens): Approved for Provost

## History

1. Jun 28, 2021 by Anne Marie Boone (aboone)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Engineering Technology & Management for Agricultural Systems: Construction Management, BS | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Agricultural & Biological Engr | | |
| Sponsor Name | Kent Rausch | | |
| Sponsor Email | krausch@illinois.edu | | |
| College Contact | Anna Ball | College Contact Email | aball@illinois.edu |
| College Budget Officer | | | |
| College Budget Officer Email | | | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval: Revision to the Construction Management concentration in the BS in ETMA

To establish the Construction Management concentration under the Engineering Technology & Management for Agricultural Systems, BS.
This program is related to the Engineering Technology & Management for Agricultural Systems, BS revision proposal key: 73
The Agricultural Production & Processing concentration proposal key: 1009
The Digital and Precision Agriculture concentration proposal key: 1011
and the Energy and the Environment concentration proposal key: 1012

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

changing rubric from TSM to ETMA

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The Engineering Technology and Management for Agricultural Systems (formerly Technical Systems Management) program is designed to prepare graduates for careers in management, marketing, operations, maintenance, and application of agricultural and biological engineering technologies within the realms of agriculture, food, energy, water, and the environment. Graduates are expected to understand problems and concerns in engineering technologies from production to processing through distribution and their social and cultural implications. Specific program learning objectives are:

Objective 1: Provide academic and technical knowledge and experiences needed for success in an increasingly technological agricultural industry and world.

Objective 2: Enhance students' abilities to formulate questions and find solutions both individually and as a part of a team.

Objective 3: Improve students' abilities to communication both written and oral forms.

Objective 4: Enhance the use and understanding of mathematics and calculation for analysis in technology and business.

Objective 5: Provide opportunities to learn and enhance professional and ethical values and leadership skills.

Objective 6: Understand their role in society and the social and cultural implications of practice in their profession.

Objective 7: Recognize the need for and develop the abilities to engage in life-long learning.

Objective 8: Understand the global nature of agriculture and business.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs Attach a side-by-side comparison with the existing program

AND, if the revision references or adds “chose-from” lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Introductory Related Courses | | |
| Select two courses from this list: | | |
| LEAD 260 | Foundations of Leadership | |
| NRES 201 | Introductory Soils | |
| UP 101 | Introduction to City Planning | |
| UP 136 | Urban Sustainability | |
| ETMA Electives | | |
| Required: | | |
| ~~TSM 232~~ | ~~Course TSM 232 Not Found~~ | ~~3~~ |
| ~~TSM 371~~ | ~~Course TSM 371 Not Found~~ | ~~3~~ |
| ~~TSM 372~~ | ~~Course TSM 372 Not Found~~ | ~~3~~ |
| ETMA 232 | Materials and Construction Sys | |
| ETMA 371 | Residential Housing Design | |
| ETMA 372 | Environ Control & HVAC Systems | |
| Select an additional 11 hours from the list below for a total of 20 hours with a minimum of 11 hours at the advanced level | | |
| ~~TSM 130~~ | ~~Course TSM 130 Not Found~~ | ~~1~~ |
| ~~TSM 132~~ | ~~Course TSM 132 Not Found~~ | ~~1~~ |
| ~~TSM 233~~ | ~~Course TSM 233 Not Found~~ | ~~3~~ |
| ~~TSM 234~~ | ~~Course TSM 234 Not Found~~ | ~~3~~ |
| ~~TSM 262~~ | ~~Course TSM 262 Not Found~~ | ~~3~~ |
| ~~TSM 295~~ | ~~Course TSM 295 Not Found~~ | ~~1 to 4~~ |
| ~~TSM 352~~ | ~~Course TSM 352 Not Found~~ | ~~3~~ |
| ~~TSM 363~~ | ~~Course TSM 363 Not Found~~ | ~~2~~ |
| ~~TSM 396~~ | ~~Course TSM 396 Not Found~~ | ~~1 to 4~~ |
| ~~TSM 425~~ | ~~Course TSM 425 Not Found~~ | ~~3~~ |
| ~~TSM 435~~ | ~~Course TSM 435 Not Found~~ | ~~3~~ |
| ~~TSM 496~~ | ~~Course TSM 496 Not Found~~ | ~~1 to 4~~ |
| ETMA 130 | Basics of CAD | |
| ETMA 132 | Basics of Project Management | |

| Code | Title | Hours |
|---|---|---|
| ETMA 233 | Metallurgy & Welding Process | |
| ETMA 234 | Wiring, Motors and Control Sys | |
| ETMA 262 | Off-Road Equipment Management | |
| ETMA 295 | Undergrad Research or Thesis | |
| ETMA 352 | Land and Water Mgt Systems | |
| ETMA 363 | Fluid Power Systems | |
| ETMA 396 | UG Honors Research or Thesis | |
| ETMA 425 | Managing Industrial and Agricultural Safety Risks | |
| ETMA 435 | Elec Computer Ctrl Sys | |
| ETMA 496 | Independent Study | |

Concentration Electives

Select 18 hours from the list below with a minimum of 12 hours at the advanced level.

At least two of:

| | |
|---|---|
| CEE 320 | Construction Engineering |
| CEE 420 | Construction Productivity |
| CEE 421 | Construction Planning |
| CEE 422 | Construction Cost Analysis |

At least one of:

| | |
|---|---|
| BADM 300 | The Legal Environment of Bus |
| BADM 310 | Mgmt and Organizational Beh |
| BADM 320 | Principles of Marketing |
| FIN 221 | Corporate Finance |
| FIN 241 | Fundamentals of Real Estate |

At least one of:

| | |
|---|---|
| UP 406 | Urban Ecology |
| UP 446 | Sustainable Planning Seminar |
| UP 466 | Energy & the Built Environment |
| UP 475 | Real Estate Development Fundamentals |
| UP 480 | Sustainable Design Principles |

May select from the below list to achieve 18 hours:

| | |
|---|---|
| ~~ACE 435~~ | ~~Global Agribusiness Management~~ |
| ACE 345 | Finan Decision Indiv Sm Bus |
| CEE 424 | Sustainable Const Methods |
| ESE 482 | Challenges of Sustainability |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Engineering Technology and Management for Agricultural Systems, BS |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

changing rubric from TSM to ETMA

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

There will be no budgetary obligations due to this curriculum revision. The curriculum revision will be carried out with existing resources.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

# Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

# Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

# Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

The concentration does not necessitate the hiring of additional instructors or faculty, nor does it require additional resources with regard to equipment of instructional facilities. All of the courses being added to the TSM core or the concentrations already have capacity to accommodate any additional students that may take them as a result of the proposed changes. Thus, ABE department will not need to create additional capacity to resource the proposed program, nor will it need to cease support of other functions or programs.

This concentration should not have any significant impact on the enrollment in other units.

# Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

No impact is anticipated.

# EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

# DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Construction Management |
| Program Code: | 6003 |

| | | | | | |
|---|---|---|---|---|---|
| Minor Code 6028 | Conc Code | 6003 | Degree Code | BS | Major Code |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Emily Stuby (eastuby) (01/13/22 3:28 pm):** Removing old DMI documentation.<br>**Kathy Martensen (kmartens) (01/18/22 4:54 pm):** Administrative approval: No change to total hours required; does not restrict student choice. |

Key: 1010

Date Submitted: 01/13/22 1:34 pm

# Viewing: 6004 : Engineering Technology & Management for Agricultural Systems: Digital & Precision Agriculture, BS

Last approved: 06/28/21 4:02 pm

Last edit: 01/19/22 11:20 am

Changes proposed by: Heather Crump

| | |
|---|---|
| Catalog Pages Using this Program | Engineering Technology & Management for Agricultural Systems: Digital & Precision Agriculture, BS<br>Engineering Technology & Management for Agricultural Systems: Digital & Precision Agriculture, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1741 Committee Chair**
3. **1741 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/13/22 3:34 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/13/22 3:40 pm Kent Rausch (krausch): Approved for 1741 Committee Chair
3. 01/13/22 3:50 pm Ronaldo Maghirang (ronaldom): Approved for 1741 Head
4. 01/13/22 4:29 pm Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:26

pm
Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:29 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/19/22 11:48 am
Kathy Martensen (kmartens): Approved for Provost

## History

1. Jun 28, 2021 by Anne Marie Boone (aboone)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Engineering Technology & Management for Agricultural Systems: Digital & Precision Agriculture, BS | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Agricultural & Biological Engr | | |
| Sponsor Name | Kent Rausch | | |
| Sponsor Email | krausch@illinois.edu | | |
| College Contact | Anna Ball | College Contact Email | aball@illinois.edu |
| College Budget Officer | | | |

College Budget Officer Email

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the Digital and Precision Agriculture concentration in the BS in ETMA

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

This program is related to the Engineering Technology & Management, BS revision proposal key: 73
The Agricultural Production & Processing concentration proposal key: 1009
The Construction Management concentration proposal key: 1010
and the Energy and the Environment concentration proposal key:1012

## Program Justification

Why are these changes necessary?

changing rubric from TSM to ETMA

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The Engineering Technology and Management for Agricultural Systems (formerly Technical Systems Management) program is designed to prepare graduates for careers in management, marketing, operations, maintenance, and application of agricultural and biological engineering technologies within the realms of agriculture, food, energy, water, and the environment. Graduates are expected to understand problems and concerns in engineering technologies from production to processing through distribution and their social and cultural implications. Specific program learning objectives are:

Objective 1: Provide academic and technical knowledge and experiences needed for success in an increasingly technological agricultural industry and world.

Objective 2: Enhance students' abilities to formulate questions and find solutions both individually and as a part of a team.

Objective 3: Improve students' abilities to communication both written and oral forms.

Objective 4: Enhance the use and understanding of mathematics and calculation for analysis in technology and business.

Objective 5: Provide opportunities to learn and enhance professional and ethical values and leadership skills.

Objective 6: Understand their role in society and the social and cultural implications of practice in their profession.

Objective 7: Recognize the need for and develop the abilities to engage in life-long learning.

Objective 8: Understand the global nature of agriculture and business.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs Attach a side-by-side comparison with the existing program

AND, if the revision references or adds “chose-from” lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Introductory Related Courses | | |
| CPSC 112 | Introduction to Crop Sciences | |
| NRES 201 | Introductory Soils | |
| ETMA Electives | | |
| Required | | |
| ~~TSM 103~~ | ~~Course TSM 103 Not Found~~ | |
| ~~TSM 262~~ | ~~Course TSM 262 Not Found~~ | |
| ~~TSM 363~~ | ~~Course TSM 363 Not Found~~ | |
| ~~TSM 435~~ | ~~Course TSM 435 Not Found~~ | |
| ~~TSM 464~~ | ~~Course TSM 464 Not Found~~ | |
| ~~TSM 467~~ | ~~Course TSM 467 Not Found~~ | |
| ETMA 103 | Agricultural Machinery and Technology | |
| ETMA 262 | Off-Road Equipment Management | |
| ETMA 363 | Fluid Power Systems | |
| ETMA 435 | Elec Computer Ctrl Sys | |
| ETMA 464 | Engine and Tractor Power | |
| ETMA 467 | Precision Agric Technology | |
| Select an additional 4 hours from the below list for a total of 20 hours with a minimum of 11 hours at the advanced level | | |
| ~~TSM 130~~ | ~~Course TSM 130 Not Found~~ | ~~1~~ |
| ~~TSM 132~~ | ~~Course TSM 132 Not Found~~ | ~~1~~ |
| ~~TSM 233~~ | ~~Course TSM 233 Not Found~~ | ~~3~~ |
| ~~TSM 234~~ | ~~Course TSM 234 Not Found~~ | ~~3~~ |
| ~~TSM 295~~ | ~~Course TSM 295 Not Found~~ | ~~1 to 4~~ |
| ~~TSM 352~~ | ~~Course TSM 352 Not Found~~ | ~~3~~ |
| ~~TSM 381~~ | ~~Course TSM 381 Not Found~~ | ~~3~~ |
| ~~TSM 396~~ | ~~Course TSM 396 Not Found~~ | ~~1 to 4~~ |
| ~~TSM 425~~ | ~~Course TSM 425 Not Found~~ | ~~3~~ |
| ~~TSM 486~~ | ~~Course TSM 486 Not Found~~ | ~~3~~ |
| ~~TSM 496~~ | ~~Course TSM 496 Not Found~~ | ~~1 to 4~~ |

| Code | Title | Hours |
|---|---|---|
| ETMA 130 | Basics of CAD | |
| ETMA 132 | Basics of Project Management | |
| ETMA 233 | Metallurgy & Welding Process | |
| ETMA 234 | Wiring, Motors and Control Sys | |
| ETMA 295 | Undergrad Research or Thesis | |
| ETMA 352 | Land and Water Mgt Systems | |
| ETMA 381 | Grain Drying & Storage Systems | |
| ETMA 396 | UG Honors Research or Thesis | |
| ETMA 425 | Managing Industrial and Agricultural Safety Risks | |
| ETMA 486 | Grain Bioprocessing Coproducts | |
| ETMA 496 | Independent Study | |
| Concentration Electives | | |
| Select 18 hours from the list below with a minimum of 12 hours at the advanced level. | | |
| One of: | | |
| ACE 210 | Environmental Economics | |
| ACE 222 | Agricultural Marketing | |
| ACE 231 | Food and Agribusiness Mgt | |
| ACE 232 | Farm Management | |
| ACE 427 | Commodity Price Analysis | |
| ACE 428 | Commodity Futures and Options | |
| ACE 432 | Advanced Farm Management | |
| ACE 435 | Global Agribusiness Management | |
| One set of: | | |
| ~~GEOG 379~~ | ~~Course GEOG 379 Not Found~~ | |
| ~~& GEOG 380~~ | ~~and Course GEOG 380 Not Found~~ | |
| GGIS 379 | Introduction to Geographic Information Systems | |
| or GGIS 380 | Spatial Problem Solving | |
| OR | | |
| ~~GEOG 477~~ | ~~Course GEOG 477 Not Found~~ | |
| ~~& GEOG 478~~ | ~~and Course GEOG 478 Not Found~~ | |
| GGIS 477 | Introduction to Remote Sensing | |
| or GGIS 478 | Techniques of Remote Sensing | |
| OR | | |
| NRES 454 | GIS in Natural Resource Mgmt | |
| & NRES 455 | and Adv GIS for Nat Res Planning | |
| One of: | | |
| NRES 438 | Soil Nutrient Cycling | |
| NRES 471 | Pedology | |
| NRES 474 | Soil and Water Conservation | |
| NRES 475 | Environmental Microbiology | |
| NRES 488 | Soil Fertility and Fertilizers | |
| One of: | | |
| CPSC 212 | Introduction to Plant Protection | |
| CPSC 270 | Applied Entomology | |
| One of: | | |
| CPSC 408 | Integrated Pest Management | |
| CPSC 412 | Principles of Crop Production | |

| Code | Title | Hours |
|---|---|---|
| CPSC 418 | Crop Growth and Management | |
| CPSC 426 | Weed Mgt in Agronomic Crops | |
| CPSC 473 | Mgmt of Field Crop Insects | |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Engineering Technology and Management for Agricultural Systems, BS |

## Program Features

Academic Level: Undergraduate

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:
On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

changing rubric from TSM to ETMA

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

There will be no budgetary obligations due to this curriculum revision. The curriculum revision will be carried out with existing resources.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

The concentration does not necessitate the hiring of additional instructors or faculty, nor does it require additional resources with regard to equipment of instructional facilities. All of the courses being added to the TSM core or the concentrations already have capacity to accommodate any additional students that may take them as a result of the proposed changes. Thus, ABE department will not need to create additional capacity to resource the proposed program, nor will it need to cease support of other functions or programs.

This concentration should not have any significant impact on the enrollment in other units.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

No impact is anticipated.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Digital and Precision Agriculture |
| Program Code: | 6004 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | 6028 | Conc Code | 6004 | Degree Code | BS | Major Code | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |

| | |
|---|---|
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Emily Stuby (eastuby) (01/13/22 3:28 pm):** Removing old DMI documentation.<br>**Kathy Martensen (kmartens) (01/19/22 9:53 am):** Administrative approval: No change to total hours; doesn't restrict student choice. |

Key: 1011

Date Submitted: 01/13/22 1:34 pm

Viewing: **6005 : Engineering Technology & Management for Agricultural Systems: Energy & the Environment, BS**

Last approved: 06/28/21 4:04 pm

Last edit: 01/19/22 11:49 am

Changes proposed by: Heather Crump

| | |
|---|---|
| Catalog Pages Using this Program | Engineering Technology & Management for Agricultural Systems: Energy & the Environment, BS<br>Engineering Technology & Management for Agricultural Systems: Energy & the Environment, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1741 Committee Chair**
3. **1741 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/13/22 3:34 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/13/22 3:41 pm Kent Rausch (krausch): Approved for 1741 Committee Chair
3. 01/13/22 3:50 pm Ronaldo Maghirang (ronaldom): Approved for 1741 Head
4. 01/13/22 4:29 pm Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:26

pm
Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:30 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/19/22 11:52 am
Kathy Martensen (kmartens): Approved for Provost

## History

1. Jun 28, 2021 by Anne Marie Boone (aboone)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Engineering Technology & Management for Agricultural Systems: Energy & the Environment, BS | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Agricultural & Biological Engr | | |
| Sponsor Name | Kent Rausch | | |
| Sponsor Email | krausch@illinois.edu | | |
| College Contact | Anna Ball | College Contact Email | aball@illinois.edu |
| College Budget Officer | | | |
| College Budget | | | |

Officer Email

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the Energy and the Environment concentration within the BS in ETMAS.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

This program is related to the Engineering Technology & Management for Agricultural Systems, BS revision proposal key: 73
The Agricultural Production & Processing concentration proposal key: 1009
The Construction Management concentration proposal key: 1010
and the Digital and Precision Agriculture concentration proposal key:1011

## Program Justification

Why are these changes necessary?

changing rubric from TSM to ETMA

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

The Engineering Technology and Management for Agricultural Systems (formerly Technical Systems Management) program is designed to prepare graduates for careers in management, marketing, operations, maintenance, and application of agricultural and biological engineering technologies within the realms of agriculture, food, energy, water, and the environment. Graduates are expected to understand problems and concerns in engineering technologies from production to processing through distribution and their social and cultural implications. Specific program learning objectives are:

Objective 1: Provide academic and technical knowledge and experiences needed for success in an increasingly technological agricultural industry and world.

Objective 2: Enhance students' abilities to formulate questions and find solutions both individually and as a part of a team.

Objective 3: Improve students' abilities to communication both written and oral forms.

Objective 4: Enhance the use and understanding of mathematics and calculation for analysis in technology and business.

Objective 5: Provide opportunities to learn and enhance professional and ethical values and leadership skills.

Objective 6: Understand their role in society and the social and cultural implications of practice in their profession.

Objective 7: Recognize the need for and develop the abilities to engage in life-long learning.

Objective 8: Understand the global nature of agriculture and business.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs Attach a side-by-side comparison with the existing program

AND, if the revision references or adds “chose-from” lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Introductory Related Courses | | |
| Select two courses from this list | | |
| ACES 102 | Intro Sustainable Food Systems | |
| CPSC 112 | Introduction to Crop Sciences | |
| ENVS 101 | Introduction to Energy Sources | |
| LEAD 260 | Foundations of Leadership | |
| NRES 102 | Introduction to NRES | |
| NRES 201 | Introductory Soils | |
| UP 136 | Urban Sustainability | |
| ETMA Electives | | |
| Required | | |
| ~~TSM 352~~ | ~~Course TSM 352 Not Found~~ | |
| ~~TSM 438~~ | ~~Course TSM 438 Not Found~~ | |
| ETMA 352 | Land and Water Mgt Systems | |
| ETMA 438 | Renewable Energy Applications | |
| Select an additional 14 hours from the list below for a total of 20 hours with a minimum of 11 hours at the advanced level | | |
| ~~TSM 130~~ | ~~Course TSM 130 Not Found~~ | ~~1~~ |
| ~~TSM 132~~ | ~~Course TSM 132 Not Found~~ | ~~1~~ |
| ~~TSM 232~~ | ~~Course TSM 232 Not Found~~ | ~~3~~ |
| ~~TSM 233~~ | ~~Course TSM 233 Not Found~~ | ~~3~~ |
| ~~TSM 234~~ | ~~Course TSM 234 Not Found~~ | ~~3~~ |
| ~~TSM 295~~ | ~~Course TSM 295 Not Found~~ | ~~1 to 4~~ |
| ~~TSM 371~~ | ~~Course TSM 371 Not Found~~ | ~~3~~ |
| ~~TSM 372~~ | ~~Course TSM 372 Not Found~~ | ~~3~~ |
| ~~TSM 396~~ | ~~Course TSM 396 Not Found~~ | ~~1 to 4~~ |
| ~~TSM 425~~ | ~~Course TSM 425 Not Found~~ | ~~3~~ |
| ~~TSM 435~~ | ~~Course TSM 435 Not Found~~ | ~~3~~ |
| ~~TSM 496~~ | ~~Course TSM 496 Not Found~~ | ~~1 to 4~~ |
| ETMA 130 | Basics of CAD | |

| Code | Title | Hours |
|---|---|---|
| ETMA 132 | Basics of Project Management | |
| ETMA 232 | Materials and Construction Sys | |
| ETMA 233 | Metallurgy & Welding Process | |
| ETMA 234 | Wiring, Motors and Control Sys | |
| ETMA 295 | Undergrad Research or Thesis | |
| ETMA 371 | Residential Housing Design | |
| ETMA 372 | Environ Control & HVAC Systems | |
| ETMA 396 | UG Honors Research or Thesis | |
| ETMA 425 | Managing Industrial and Agricultural Safety Risks | |
| ETMA 435 | Elec Computer Ctrl Sys | |
| ETMA 496 | Independent Study | |

Concentration Electives

Select 18 hours from the list below with a minimum of 12 hours at the advanced level.

At least one of:

| | |
|---|---|
| ACE 210 | Environmental Economics |
| ACE 310 | Natural Resource Economics |
| ACE 406 | Environmental Law |
| ACE 410 | Energy Economics |
| ACE 411 | Environment and Development |

At least one of:

| | |
|---|---|
| NRES 219 | Applied Ecology |
| NRES 370 | Environmental Sustainability |
| NRES 419 | Env and Plant Ecosystems |
| NRES 420 | Restoration Ecology |
| NRES 425 | Natural Resources Law & Policy |
| NRES 426 | Renewable Energy Policy |
| NRES 429 | Aquatic Ecosystem Conservation |
| NRES 438 | Soil Nutrient Cycling |
| NRES 439 | Env and Sustainable Dev |
| NRES 471 | Pedology |
| NRES 474 | Soil and Water Conservation |
| NRES 477 | Introduction to Remote Sensing |
| NRES 488 | Soil Fertility and Fertilizers |

At least one of:

| | |
|---|---|
| UP 405 | Watershed Ecology and Planning |
| UP 406 | Urban Ecology |
| UP 446 | Sustainable Planning Seminar |
| UP 466 | Energy & the Built Environment |
| UP 480 | Sustainable Design Principles |

May select from the below list to achieve 18 hours:

| | |
|---|---|
| AGCM 330 | Environmental Communications |
| ~~ECE 482~~ | ~~Digital IC Design~~ |
| CEE 320 | Construction Engineering |
| CEE 330 | Environmental Engineering |
| CPSC 215 | The Prairie and Bioenergy |
| CPSC 336 | Tomorrow's Environment |
| CPSC 415 | Bioenergy Crops |

| Code | Title | Hours |
|---|---|---|
| CPSC 416 | Native Plants, Pollinators, & Food Ecosystems | |
| CPSC 431 | Plants and Global Change | |
| CPSC 437 | Principles of Agroecology | |
| ESE 465 | Transportation &Sustainability | |
| ESE 482 | Challenges of Sustainability | |
| GLBL 201 | Energy Systems | |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Engineering Technology and Management for Agricultural Systems, BS |

## Program Features

Academic Level: Undergraduate

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:
On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

changing rubric from TSM to ETMA

## Budget

Are there budgetary implications for: No

this revision?

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

There will be no budgetary obligations due to this curriculum revision for the revised TSM program. The curriculum revision will be carried out with existing resources.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

The concentration does not necessitate the hiring of additional instructors or faculty, nor does it require additional resources with regard to equipment of instructional facilities. All of the courses being added to the TSM core or the concentrations already have capacity to accommodate any additional students that may take them as a result of the proposed changes. Thus, ABE department will not need to create additional capacity to resource the proposed program, nor will it need to cease support of other functions or programs.

This concentration should not have any significant impact on the enrollment in other units.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

No impact is anticipated.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Attach Final Approval Notices | | | | | | | |
| Banner/Codebook Name | Energy and the Environment | | | | | | |
| Program Code: | 6005 | | | | | | |
| Minor Code 6028 | | Conc Code | 6005 | | Degree Code | BS | Major Code |
| Senate Approval Date | | | | | | | |
| Senate Conference Approval Date | | | | | | | |

| | |
|---|---|
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Emily Stuby (eastuby) (01/13/22 3:28 pm):** Removing old DMI documentation.<br>**Kathy Martensen (kmartens) (01/18/22 3:19 pm):** Administrative approval: No change to total hours; doesn't restrict student choice.<br>**Kathy Martensen (kmartens) (01/19/22 11:49 am):** Administrative approval: Does not change total required hours; doesn't restrict student choice. |

Key: 1012

Date Submitted: 01/11/22 11:05 am

# Viewing: 4031 : Agricultural, Consumer, and Environmental Sciences Minor

Last approved: 02/26/20 6:22 pm

Last edit: 01/19/22 11:54 am

Changes proposed by: Brianna Gregg

| | |
|---|---|
| Catalog Pages Using this Program | International Minor in Agricultural, Consumer, & Environmental Sciences |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1306 Head**
3. **KL Committee Chair**
4. **KL Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 01/12/22 2:25 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/12/22 2:45 pm
   Anna Ball (aball):
   Approved for 1306 Head
3. 01/13/22 9:02 am
   Brianna Gregg (bjgray2):
   Approved for KL Committee Chair
4. 01/18/22 12:26 pm
   Anna Ball (aball):
   Approved for KL Dean
5. 01/18/22 12:28 pm
   John Wilkin (jpwilkin):
   Approved for

University Librarian
6. 01/19/22 11:59 am
Kathy Martensen (kmartens): Approved for Provost

## History

1. Feb 26, 2020 by Rob Chappell (rchappel)

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Agricultural, Consumer, and Environmental Sciences Minor | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Agricultural, Consumer and Environmental Sciences | | |
| Sponsor Name | Ali Freter ~~Robert Chappell~~ | | |
| Sponsor Email | freter1@illinois.edu ~~rchappel@illinois.edu~~ | | |
| College Contact | Brianna Gregg | College Contact Email | bjgray2@illinois.edu |
| College Budget Officer | | | |
| College Budget Officer Email | | | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?
No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the undergraduate minor in Agricultural, Consumer, and Environmental Sciences

Curricula update: Geography & GIS rubric change

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Degree Requirements tables are being updated with new GGIS course rubric (previously GEOG)

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

There is no impact to the annual number of degrees awarded or enrollment.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals*

*for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Global Study in the Social Science Disciplines | | |
| Minimum of 3 hours, maximum of 9 hours selected from: | | 3-9 |
| ACE 251 | The World Food Economy | |
| ACE 411 | Environment and Development | |
| ACE 435 | Global Agribusiness Management | |
| ACE 451 | Agriculture in Intl Dev | |
| ACE 455 | International Trade in Food and Agriculture | |
| ~~AGCM 320~~ | ~~Course AGCM 320 Not Found~~ | |
| AGCM 420 | Public Information Campaigns | |
| ANTH 262 | Women's Lives | |
| BADM 380 | International Business | |
| BADM 381 | Multinational Management | |
| BADM 382 | International Marketing | |
| ECON 420 | International Economics | |
| ECON 450 | Development Economics | |
| FIN 451 | Intl Financial Markets | |
| ~~GEOG 204~~ | ~~Course GEOG 204 Not Found~~ | |
| ~~GEOG 210~~ | ~~Course GEOG 210 Not Found~~ | |
| ~~GEOG 410~~ | ~~Course GEOG 410 Not Found~~ | |
| GGIS 204 | Cities of the World | |

| Code | Title | Hours |
|---|---|---|
| GGIS 210 | Social & Environmental Issues | |
| GGIS 410 | Green Development | |
| HDFS 220 | Families in Global Perspective | |
| HIST 258 | 20thC World to Midcentury | |
| HIST 259 | 20thC World from Midcentury | |
| NRES 287 | Environment and Society | |
| PS 241 | Comp Politics in Dev Nations | |
| PS 280 | Intro to Intl Relations | |
| PS 382 | Intl Political Economy | |
| PS 389 | International Communications | |
| REL 110 | World Religions | |
| UP 423 | Community Development in the Global South | |
| Global Study in the Natural Science Disciplines | | |
| Minimum of 3 hours, maximum of 9 hours, selected from: | | 3-9 |
| ANSC 205 | World Animal Resources | |
| ATMS 140 | Climate and Global Change | |
| CPSC 116 | The Global Food Production Web | |
| CPSC 431 | Plants and Global Change | |
| NRES 109 | Global Environmental Issues | |
| PLPA 200 | Plants, Pathogens, and People | |
| ~~TSM 311~~ | ~~Course TSM 311 Not Found~~ | |
| ETMA 311 | Humanity in the Food Web | |
| Regional Specialization | | |
| The following four approaches/options can be used (separately or in combinations) to complete this portion of the minor. | | 3-9 |
| Academic credit earned through study or supervised activities outside the U.S. through: | | |
| ACES 293 | International Internship | |
| ACES 298 | International Experience | |
| ACES 299 | ACES Study Abroad | |
| Completion of one or more of the following courses offered by the Department of Agricultural and Consumer Economics | | |
| ACE 254 | Economic Systems in Africa | |
| ACE 452 | The Latin American Economies | |
| ACE 454 | Econ Dev of Tropical Africa | |
| Completion of courses that are approved by Area Studies Programs (see minor advisor) | | |
| Center for African Studies | | |
| Center for East Asian and Pacific Studies | | |
| Center for Latin American and Caribbean Studies | | |
| Program in South Asian and Middle Eastern Studies | | |
| European Union Center | | |
| Foreign language courses that exceed College of ACES graduation requirements. | | |
| Total Hours | | 21 |

## Program Features

| | |
|---|---|
| Academic Level | Undergraduate |

Is this minor?

An interdisciplinary study focusing on a single theme

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

N/A

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

There is no impact to the annual number of degrees awarded or enrollment.

## Budget

Are there budgetary implications for this revision? No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

EP Control Number: EP.22.068

Attach Rollback/Approval

| | |
|---|---|
| Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | International Minor in ACES |
| Program Code: | 4031 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | 4031 | Conc Code | | Degree Code | | Major Code | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/19/22 11:53 am):** Administrative approval: Does not change total hours; doesn't restrict student choice. |

Key: 90

Date Submitted: 01/11/22 11:07 am

Viewing: **5290 : Spatial and Quantitative Methods in Natural Resources and Environmental Sciences Minor, UG**

Last approved: 03/12/21 2:23 pm

Last edit: 01/19/22 12:01 pm

Changes proposed by: Brianna Gregg

| | |
|---|---|
| Catalog Pages Using this Program | Spatial & Quantitative Methods in Natural Resources & Environmental Sciences Minor |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1875 Committee Chair**
3. **1875 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/12/22 2:26 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/12/22 3:09 pm James Miller (jrmillr): Approved for 1875 Committee Chair
3. 01/12/22 3:50 pm Robert Schooley (schooley): Approved for 1875 Head
4. 01/13/22 9:02 am Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:26 pm

Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:28 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/19/22 12:05 pm
Kathy Martensen (kmartens): Approved for Provost

## History

1. Oct 15, 2020 by Susan Helmink (shelmink)
2. Mar 12, 2021 by Deb Forgacs (dforgacs)

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | | |
|---|---|---|
| Official Program Name | Spatial and Quantitative Methods in Natural Resources and Environmental Sciences Minor, UG | |
| Sponsor College | Agr, Consumer, & Env Sciences | |
| Sponsor Department | Natural Res & Env Science | |
| Sponsor Name | Jim Miller, Professor and Chair of the NRES Courses and Curriculum Committee | |
| Sponsor Email | jrmillr@illinois.edu | |
| College Contact | Tony Yannarell, Associate Professor and Chair of the ACES Courses and Curriculum Committee | College Contact Email acyann@illinois.edu |
| College Budget | | |

Officer

College Budget Officer Email

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the undergraduate minor in Spatial and Quantitative Methods in Natural Resources and Environmental Sciences

Curricula update: Geography & GIS rubric change

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Degree Requirements tables are being updated with new GGIS course rubric (previously GEOG)

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

All subject areas/courses in the minor have been selected because they specifically address the learning objectives of the minor. We therefore intend to use student performance in these courses as benchmarks to ensure that students have achieved these educational goals. All courses in Natural Resources and Environmental Sciences regularly undergo peer-review assessments, and we will continue this practice for all courses in the minor.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs — Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

The Spatial and Quantitative Methods in Natural Resources and Environmental Sciences minor is ideal for students in NRES and allied fields seeking preparation for careers requiring sills in geographic information systems, statistics, research design, and/or mathematical modeling. This minor is open to students in all majors and is especially relevant for those pursuing a major related to natural resource and environmental issues who want to distinguish themselves with more advanced analytical skills. In order to be eligible to declare this minor, a student must have successfully completed:
1. MATH 220, 221 or 234
2. ACE 261, CPSC 241, ECON 202, PSYC 235, SOC 280 or STAT 100

The minor requires the completion of an additional 18 hours of coursework selected from the following list. Students must earn credit for at least three hours in each of the three categories. At least six hours of 400-level courses must be distinct from any credit earned for the student's major, concentration, and any other minor.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Required Courses for a Minor in Spatial and Quantitative Methods in Natural Resources and Environmental Sciences | | |
| Statistics & Research Design | | |
| Select one of the following: | | 3-4 |
| NRES 340 | Environ Social Sci Res Meth | |
| NRES 421 | Quantitative Methods in NRES | |
| CPSC 440 | Applied Statistical Methods I | |
| NRES 445 | Statistical Methods | |
| SOC 485 | Intermediate Social Statistics | |
| STAT 200 | Statistical Analysis | |
| Mathematical Modeling | | |
| Select one of the following: | | 3-4 |
| NRES 401 | Watershed Hydrology | |
| NRES 402 | Ecohydrology and Water Management | |
| NRES 403 | Watersheds and Water Quality | |
| NRES 422 | Earth Systems Modeling | |
| NRES 427 | Modeling Natural Resources | |
| ANSC 448 | Math Modeling in Life Sciences | |
| ~~GEOG 468~~ | ~~Course GEOG 468 Not Found~~ | |
| GGIS 468 | Biological Modeling | |
| Spatial Analysis | | |
| Select one of the following: | | 3-5 |
| CPSC 444 | Introduction to Spatial Analytics | |
| NRES 454 | GIS in Natural Resource Mgmt | |
| NRES 455 | Adv GIS for Nat Res Planning | |
| NRES 465 | Landscape Ecology | |

| Code | Title | Hours |
|---|---|---|
| ~~GEOG 460~~ | ~~Course GEOG 460 Not Found~~ | |
| ~~GEOG 476~~ | ~~Course GEOG 476 Not Found~~ | |
| ~~GEOG 478~~ | ~~Course GEOG 478 Not Found~~ | |
| ~~GEOG 479~~ | ~~Course GEOG 479 Not Found~~ | |
| ~~GEOG 489~~ | ~~Course GEOG 489 Not Found~~ | |
| GGIS 460 | Aerial Photo Analysis | |
| GGIS 476 | Applied GIS to Environ Studies | |
| GGIS 478 | Techniques of Remote Sensing | |
| GGIS 479 | Advanced Topics in GIS | |
| GGIS 489 | Programming for GIS | |
| Minimum hours required for the minor | | 18 |

## Program Features

Academic Level Undergraduate

Is this minor?
An interdisciplinary study focusing on a single theme

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?
No

## Delivery Method

This program is available:
On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?
No

Describe how the department will monitor the admission to/enrollment in the minor.

Students complete the Statement of Intent to Pursue a Campus-Approved Minor form as well as an NRES Department form declaring their intent to pursue the minor. Once the forms are complete, students meet with the NRES Academic Advising Coordinator for review/discussion and to obtain signatures on the forms.

Are there any prerequisites for the proposed minor?

Yes

List the prerequisites including course titles and number of credit hours for each prerequisite course, and whether or not these prerequisites count in the total hours required for the minor.

Prerequisites:
1. (4-5 hours) One of MATH 220 - Calculus, MATH 221 - Calculus I, or MATH 234 - Calculus for Business
2. (3-4 hours) One of ACE 261 - Applied Statistical Methods, CPSC 241 - Intro to Applied Statistics, ECON 202 - Economic Statistics I, PSYC 235 - Intro to Statistics, SOC 280 - Intro to Social Statistics, or STAT 100 - Statistics

The prerequisites do not count toward the total hours required for the minor.

Describe how this revision will impact enrollment and degrees awarded.

There is no impact to the annual number of degrees awarded or enrollment.

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

These changes only impact courses currently offered, so we do not anticipate any financial costs to this revision.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Spatial and Quantitative Methods in Natural Resources and Environmental Sciences |
| Program Code: | 5290 |

| Minor Code | 5290 | Conc Code | | Degree Code | | Major Code | |
|---|---|---|---|---|---|---|---|

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/19/22 12:00 pm):** Administrative approval: Does not change total hours required or restrict student choice. |

Key: 88

Date Submitted: 01/11/22 3:45 pm

# Viewing: 5587 : Geography & Geographic Information Science Minor, UG

Last approved: 04/16/21 12:49 pm

Last edit: 01/19/22 1:27 pm

Changes proposed by: Beth McKown

| | |
|---|---|
| Catalog Pages Using this Program | Geography & Geographic Information Science Minor |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1872 Head**
3. **SESE Head**
4. **KV Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

## Approval Path

1. 01/12/22 2:28 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/12/22 7:43 pm Shaowen Wang (shaowen): Approved for 1872 Head
3. 01/12/22 8:35 pm Jonathan Tomkin (tomkin): Approved for SESE Head
4. 01/17/22 10:45 am Stephen Downie (sdownie): Approved for KV Dean
5. 01/17/22 11:01 am John Wilkin (jpwilkin):

Approved for University Librarian
6. 01/19/22 1:53 pm Kathy Martensen (kmartens): Approved for Provost

## History

1. Aug 26, 2019 by Amy Elli (amyelli)
2. Apr 16, 2021 by Beth McKown (bmckown1)

Minor (ex. European Union Studies)

This proposal is for a:
Revision

## Administration Details

| | |
|---|---|
| Official Program Name | Geography & Geographic Information Science Minor, UG |
| Sponsor College | Liberal Arts & Sciences |
| Sponsor Department | Geography and Geographic Information Science |
| Sponsor Name | Shaowen Wang, Professor and Department Head |
| Sponsor Email | shaowen@illinois.edu |
| College Contact | Stephen R. Downie ~~Kelly Ritter~~ |
| College Contact Email | sdownie@illinois.edu ~~ritterk@illinois.edu~~ |
| College Budget Officer | |
| College Budget Officer Email | |

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative update to revise the undergraduate minor in GGIS

Curricula update to the Geography & Geographic Information Science Minor, UG

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Updating rubric GEOG to GGIS effective Fall 2022

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

No impact anticipated.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals*

*for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

An undergraduate minor should consist of at least 16 - and no more than 21 hours - of course work, with at least 6 hours of 300- or 400- level courses. Except clearly remedial offerings, prerequisite courses within the sponsoring unit count towards the total; prerequisite courses outside the sponoring unit do not count toward this total. The unit sponsoring the minor and that unit's college may set educationally necessary prerequisites for eligibility for the minor within these constraints. Does this proposal meet these criteria?

Yes

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

| | |
|---|---|
| Revised programs | Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours. |

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Two courses selected from the following: | | 6 |
| ATMS/GGIS 100 | Introduction to Meteorology | |
| ~~GEOG 101~~ | ~~Course GEOG 101 Not Found~~ | |
| ~~GEOG 103~~ | ~~Course GEOG 103 Not Found~~ | |
| ~~GEOG 104~~ | ~~Course GEOG 104 Not Found~~ | |
| ~~GEOG 105~~ | ~~Course GEOG 105 Not Found~~ | |
| ~~GEOG 106~~ | ~~Course GEOG 106 Not Found~~ | |
| ~~GEOG 221~~ | ~~Course GEOG 221 Not Found~~ | |
| GGIS 101 | Global Development&Environment | |
| GGIS 103 | Earth's Physical Systems | |
| GGIS 104 | Social and Cultural Geography | |
| GGIS 105 | The Digital Earth | |
| GGIS 106 | Geographies of Globalization | |
| GGIS 221 | Geographies of Global Conflict | |
| One course in human geography, selected from the following: | | 3 |
| ~~GEOG 204~~ | ~~Course GEOG 204 Not Found~~ | |
| ~~GEOG 205~~ | ~~Course GEOG 205 Not Found~~ | |
| ~~GEOG 224~~ | ~~Course GEOG 224 Not Found~~ | |
| ~~GEOG 254~~ | ~~Course GEOG 254 Not Found~~ | |
| ~~GEOG 350~~ | ~~Course GEOG 350 Not Found~~ | |

| Code | Title | Hours |
|---|---|---|
| ~~GEOG 356~~ | ~~Course GEOG 356 Not Found~~ | |
| ~~GEOG 384~~ | ~~Course GEOG 384 Not Found~~ | |
| ~~GEOG 405~~ | ~~Course GEOG 405 Not Found~~ | |
| ~~GEOG 410~~ | ~~Course GEOG 410 Not Found~~ | |
| ~~GEOG 438~~ | ~~Course GEOG 438 Not Found~~ | |
| ~~GEOG 455~~ | ~~Course GEOG 455 Not Found~~ | |
| ~~GEOG 465~~ | ~~Course GEOG 465 Not Found~~ | |
| ~~GEOG 466~~ | ~~Course GEOG 466 Not Found~~ | |
| ~~GEOG 471~~ | ~~Course GEOG 471 Not Found~~ | |
| ~~GEOG 483~~ | ~~Course GEOG 483 Not Found~~ | |
| ~~GEOG 484~~ | ~~Course GEOG 484 Not Found~~ | |
| GGIS 204 | Cities of the World | |
| GGIS 205 | Business Location Decisions | |
| GGIS 224 | Environmental Data Science | |
| GGIS 254 | American People, Places, & Environments | |
| GGIS 350 | Sustainability and the City | |
| GGIS 356 | Sustainable Development in South Asia | |
| GGIS 384 | Population Geography | |
| GGIS 405 | Geography Field Course | |
| GGIS 410 | Green Development | |
| GGIS 438 | Geography of Health Care | |
| GGIS 455 | Geography of Sub-Saharan Africa | |
| GGIS 465 | Transportation &Sustainability | |
| GGIS 466 | Environmental Policy | |
| GGIS 471 | Recent Trends in Geog Thought | |
| GGIS 483 | Urban Geography | |
| GGIS 484 | Cities, Crime, and Space | |
| One course in physical/environmental geography, selected from the following: | | 3 |
| ~~GEOG 210~~ | ~~Course GEOG 210 Not Found~~ | |
| ~~GEOG 222~~ | ~~Course GEOG 222 Not Found~~ | |
| GGIS 210 | Social & Environmental Issues | |
| GGIS 222 | Big Rivers of the World | |
| ESE 320 | Water Planet, Water Crisis | |
| NRES/GGIS 401 | Watershed Hydrology | |
| ~~GEOG 405~~ | ~~Course GEOG 405 Not Found~~ | |
| ~~GEOG 406~~ | ~~Course GEOG 406 Not Found~~ | |
| ~~GEOG 408~~ | ~~Course GEOG 408 Not Found~~ | |
| ~~GEOG 412~~ | ~~Course GEOG 412 Not Found~~ | |
| ~~GEOG 459~~ | ~~Course GEOG 459 Not Found~~ | |
| ~~GEOG 496~~ | ~~Course GEOG 496 Not Found~~ | |
| GGIS 405 | Geography Field Course | |
| GGIS 406 | Fluvial Geomorphology | |
| GGIS 408 | Humans and River Systems | |
| GGIS 412 | Geospatial Technology & Society | |
| GGIS 459 | Ecohydraulics | |
| GGIS 496 | Climate & Social Vulnerability | |
| One course in geographic information science, selected from the following: | | 3 |

| Code | Title | Hours |
|---|---|---|
| ~~GEOG 371~~ | ~~Course GEOG 371 Not Found~~ | |
| ~~GEOG 379~~ | ~~Course GEOG 379 Not Found~~ | |
| ~~GEOG 380~~ | ~~Course GEOG 380 Not Found~~ | |
| ~~GEOG 412~~ | ~~Course GEOG 412 Not Found~~ | |
| ~~GEOG 440~~ | ~~Course GEOG 440 Not Found~~ | |
| GGIS 371 | Spatial Analysis | |
| GGIS 379 | Introduction to Geographic Information Systems | |
| GGIS 380 | Spatial Problem Solving | |
| GGIS 412 | Geospatial Technology & Society | |
| GGIS 440 | Business Applications of GIS | |
| PATH 439 | Health Applications of GIS | |
| ~~GEOG 460~~ | ~~Course GEOG 460 Not Found~~ | |
| ~~GEOG 468~~ | ~~Course GEOG 468 Not Found~~ | |
| ~~GEOG 473~~ | ~~Course GEOG 473 Not Found~~ | |
| ~~GEOG 476~~ | ~~Course GEOG 476 Not Found~~ | |
| ~~GEOG 477~~ | ~~Course GEOG 477 Not Found~~ | |
| ~~GEOG 478~~ | ~~Course GEOG 478 Not Found~~ | |
| ~~GEOG 479~~ | ~~Course GEOG 479 Not Found~~ | |
| ~~GEOG 480~~ | ~~Course GEOG 480 Not Found~~ | |
| GGIS 460 | Aerial Photo Analysis | |
| GGIS 468 | Biological Modeling | |
| GGIS 473 | Digital Cartography & Map Design | |
| GGIS 476 | Applied GIS to Environ Studies | |
| GGIS 477 | Introduction to Remote Sensing | |
| GGIS 478 | Techniques of Remote Sensing | |
| GGIS 479 | Advanced Topics in GIS | |
| GGIS 480 | Principles of Geographic Information Science | |
| One 200-400 level course selected from any of the above. | | 3 |
| Total Hours | | 18 |

At least 6 hours total must be at the 300 or 400 level.

## Program Features

Academic Level Undergraduate

Is this minor?

A Comprehensive study in a single discipline

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Other than certification via the students' degree audits, is there any additional planned mechanism to award/honor successful completion of the minor?

No

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Will the department limit enrollment to the minor?

No

Describe how the department will monitor the admission to/enrollment in the minor.

No impact anticipated.

Are there any prerequisites for the proposed minor?

No

Describe how this revision will impact enrollment and degrees awarded.

No impact anticipated.

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

No impact anticipated.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

# Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

Attach Final Approval Notices

| | |
|---|---|
| Banner/Codebook Name | Geography & Geographic Information Science |
| Program Code: | 5587 |

| Minor Code | Conc Code | Degree Code | Major Code |
|---|---|---|---|
| 5587 | | | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document Justification for this request | |

| | |
|---|---|
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/19/22 1:26 pm):** Administrative approval: No change to total hours required; doesn't restrict student choice. |

Key: 489

# Proposal for revised curricula (degree, major, concentration, minor)

**Submit completed proposals via email to Associate Dean Kelly Ritter (ritterk@illinois.edu). Please obtain Executive Officer and School Director (if applicable) approval via email and forward with the proposal to LAS.**

**Proposal Title:** Add GEOG 254 to the list of elective courses for the Human Geography BA concentration.

**Proposed effective date:** Fall 2021

**Sponsor(s):** Shaowen Wang, Professor and Department Head, shaowen@illinois.edu

**College contact**: Kelly Ritter, Associate Dean for Curricula and Academic Policy, College of Liberal Arts and Sciences, ritterk@illinois.edu

## PROGRAM DESCRIPTION and JUSTIFICATION

1) **Provide a brief description but concise description of your proposal.**

This proposal is to add **GEOG 254 – American People, Places, and Environments** as an elective course in the following degree programs:
10KV5330BALA - Geography & Geographic Information Science, BALAS, Human Geography Concentration (3884)
5887 – Geography & Geographic Information Science Minor

2) **Provide a justification of the program**

Human Geography concentration: GEOG 254 examines core issues in cultural, economic, and population geography as related to regional geographies and ethnic/racial population groups in the United States, and thus it fits well as an elective course in the human geography concentration.

Minor: For the same reason, we would like to add this course to the Human Geography course options in the GGIS minor.

10KV5330BALA - Geography & Geographic Information Science, BALAS, Human Concentration (3884)
**PROPOSED:**

**Only addition is adding GEOG 254 which is highlighted below**

| Code | Title | Hours |
|---|---|---|
| 200-to 400-level Geography and Geographic Information Science courses (of which at least 6 hours must be at the 300 or 400 level) selected from the following: | | 25-27 |
| GEOG 204 | Cities of the World | |
| GEOG 205 | Business Location Decisions | |
| GEOG 210 | Social & Environmental Issues | |
| GEOG 224 | Geog Patterns of Illinois | |
| **GEOG 254** | **American People, Places, and Environments** | |
| SOC 280 | Intro to Social Statistics | |
| NRES/GEOG 287 | Environment and Society | |
| GEOG 350 | Sustainability and the City | |
| GEOG 356 | Sustainable Development in South Asia | |
| ESE 320/GEOG 370 | Water Planet, Water Crisis | |
| GEOG 371 | Spatial Analysis | |
| GEOG 384 | Population Geography | |
| GEOG 390 | Individual Study | |
| GEOG 391 | Honors Individual Study | |
| GEOG 405 | Geography Field Course | |
| GEOG 410 | Green Development | |
| GEOG 412 | Geospatial Tech & Society | |
| LA 427 | Amer Vernacular Cultural Land | |
| GEOG 438 | Geography of Health Care | |
| PATH/GEOG 439 | Health Applications of GIS | |
| UP/GEOG 446 | Sustainable Planning Seminar | |
| GEOG 455 | Geog of Sub-Saharn Africa | |
| GEOG 465 | Transportation & Sustainability | |
| GEOG 466 | Environmental Policy | |
| GEOG 471 | Recent Trends in Geog Thought | |
| GEOG 473 | Digital Cartography & Map Design | |
| GEOG 477 | Introduction to Remote Sensing | |
| ESE/GEOG 482 | Challenges of Sustainability | |

| Code | Title | Hours |
|---|---|---|
| GEOG 483 | Urban Geography | |
| GEOG 496 | Climate & Social Vulnerability | |

Geography & GIScience Minor (Banner Code 5587)
**PROPOSED:**

**Only addition is adding GEOG 254 which is highlighted below**

| | | |
|---|---|---|
| Two courses selected from the following: | | |
| ATMS/GEOG 100 | Introduction to Meteorology | |
| GEOG 101 | Global Development & Environment | |
| GEOG 103 | Earth's Physical Systems | |
| GEOG 104 | Social and Cultural Geography | |
| GEOG 105 | The Digital Earth | |
| GEOG 106 | Geographies of Globalization | |
| GEOG 221 | Geographies of Global Conflict | |
| One course in human geography, selected from the following: | | 3 |
| GEOG 204 | Cities of the World | |
| GEOG 205 | Business Location Decisions | |
| GEOG 224 | Geog Patterns of Illinois | |
| GEOG 254 | American People, Places, and Environments | |
| GEOG 350 | Sustainability and the City | |
| GEOG 356 | Sustainable Development in South Asia | |
| GEOG 384 | Population Geography | |
| GEOG 405 | Geography Field Course | |
| GEOG 410 | Green Development | |
| GEOG 438 | Geography of Health Care | |
| GEOG 455 | Geog of Sub-Saharn Africa | |
| GEOG 465 | Transportation & Sustainability | |
| GEOG 466 | Environmental Policy | |
| GEOG 471 | Recent Trends in Geog Thought | |
| GEOG 483 | Urban Geography | |
| GEOG 484 | Cities, Crime, and Space | |
| One course in physical/environmental geography, selected from the following: | | 3 |
| GEOG 210 | Social & Environmental Issues | |
| GEOG 222 | Big Rivers of the World | |
| ESE 320 | Water Planet, Water Crisis | |
| NRES/GEOG 401 | Watershed Hydrology | |
| GEOG 405 | Geography Field Course | |
| GEOG 406 | Fluvial Geomorphology | |
| GEOG 408 | Humans and River Systems | |
| GEOG 412 | Geospatial Tech & Society | |

| | | |
|---|---|---|
| GEOG 459 | Ecohydraulics | |
| GEOG 496 | Climate & Social Vulnerability | |
| One course in geographic information science, selected from the following: | | 3 |
| GEOG 371 | Spatial Analysis | |
| GEOG 379 | Intro to GIS Systems | |
| GEOG 380 | GIS II: Spatial Prob Solving | |
| GEOG 412 | Geospatial Tech & Society | |
| GEOG 440 | Business Applications of GIS | |
| PATH 439 | Health Applications of GIS | |
| GEOG 460 | Aerial Photo Analysis | |
| GEOG 468 | Biological Modeling | |
| GEOG 473 | Digital Cartography & Map Design | |
| GEOG 476 | Applied GIS to Environ Studies | |
| GEOG 477 | Introduction to Remote Sensing | |
| GEOG 478 | Techniques of Remote Sensing | |
| GEOG 479 | Advanced Topics in GIS | |
| GEOG 480 | Principles of GIS | |
| One 200-400 level course selected from any of the above. | | 3 |
| Total Hours | | 18 |

At least 6 hours total must be at the 300 or 400 level.

Date Submitted: 01/11/22 11:09 am

Viewing: **5685 : Natural Resources & Environmental Sciences: Environmental Science & Management, BS**

Last approved: 06/12/20 11:20 am

Last edit: 01/19/22 1:55 pm

Changes proposed by: Brianna Gregg

| | |
|---|---|
| Catalog Pages Using this Program | Natural Resources & Environmental Sciences: Environmental Science & Management, BS |

Proposal Type:

## In Workflow

1. **U Program Review**
2. **1875 Committee Chair**
3. **1875 Head**
4. **KL Committee Chair**
5. **KL Dean**
6. **University Librarian**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

## Approval Path

1. 01/12/22 2:14 pm Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/12/22 3:09 pm James Miller (jrmillr): Approved for 1875 Committee Chair
3. 01/12/22 3:51 pm Robert Schooley (schooley): Approved for 1875 Head
4. 01/13/22 9:02 am Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. 01/18/22 12:26 pm

Anna Ball (aball): Approved for KL Dean
6. 01/18/22 12:28 pm
John Wilkin (jpwilkin): Approved for University Librarian
7. 01/19/22 1:58 pm
Kathy Martensen (kmartens): Approved for Provost

## History

1. Mar 18, 2019 by Deb Forgacs (dforgacs)
2. Jun 12, 2020 by Susan Helmink (shelmink)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

## Administration Details

| | | | |
|---|---|---|---|
| Official Program Name | Natural Resources & Environmental Sciences: Environmental Science & Management, BS | | |
| Sponsor College | Agr, Consumer, & Env Sciences | | |
| Sponsor Department | Natural Res & Env Science | | |
| Sponsor Name | Jim Miller, Professor and Chair of the NRES Courses and Curriculum Committee | | |
| Sponsor Email | jrmillr@illinois.edu | | |
| College Contact | Tony Yannarell, Associate Professor and Chair of the ACES Courses and Curriculum Committee | College Contact Email | acyann@illinois.edu |
| College Budget Officer | | | |

College Budget Officer Email

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Does this program have inter-departmental administration?

No

## Proposal Title

Effective Catalog Term: Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the Environmental Science & Management concentration within the BS in NRES

Curricula update: Geography & GIS rubric change

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

## Program Justification

Why are these changes necessary?

Degree Requirements tables are being updated with new GGIS course rubric (previously GEOG)

## Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

Does the program include other courses/subjects impacted by the creation/revision of this program?

No

## Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

All subject areas/courses in the major have been selected because they specifically address the learning objectives of the major. We therefore intend to use student performance in these courses as benchmarks to ensure that students have achieved these educational goals. All courses in Natural Resources and Environmental Sciences regularly undergo peer-review assessments, and we will continue this practice for all courses in the major.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

## Program of Study

*"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.*

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Revised programs — Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

No changes

Statement for Programs of Study Catalog

Course List

| Code | Title | Hours |
|---|---|---|
| Concentration Core Requirements | | |
| NRES 351 | Introduction to Environmental Chemistry | 3 |
| NRES 402 | Ecohydrology and Water Management | 3 |
| or NRES 401 | Watershed Hydrology | |
| NRES 475 | Environmental Microbiology | 3 |
| Concentration Elective Requirements | | |
| Two Soil and Water Science Courses | | 6-8 |
| NRES 429 | Aquatic Ecosystem Conservation | |
| NRES 471 | Pedology | |

| Code | Title | Hours |
|---|---|---|
| NRES 485 | Stream Ecosystem Management | |
| NRES 487 | Soil Chemistry | |
| NRES 488 | Soil Fertility and Fertilizers | |
| NRES 490 | Surface Water System Chemistry | |
| ABE 454 | Environmental Soil Physics | |
| ~~GEOG 406~~ | ~~Course GEOG 406 Not Found~~ | |
| ~~GEOG 459~~ | ~~Course GEOG 459 Not Found~~ | |
| GGIS 406 | Fluvial Geomorphology | |
| GGIS 459 | Ecohydraulics | |
| One Environmental Quality Course | | 3-4 |
| NRES 403 | Watersheds and Water Quality | |
| NRES 438 | Soil Nutrient Cycling | |
| NRES 474 | Soil and Water Conservation | |
| CPSC 336 | Tomorrow's Environment | |
| CPSC 431 | Plants and Global Change | |
| ~~TSM 352~~ | ~~Course TSM 352 Not Found~~ | |
| ETMA 352 | Land and Water Mgt Systems | |
| UP 405 | Watershed Ecology and Planning | |
| ATMS 449 | Biogeochemical Cycles | |
| ESE 320 | Water Planet, Water Crisis | |
| GEOL 380 | Environmental Geology | |
| IB 485 | Environ Toxicology & Health | |
| Total Concentration-Required Hours | | 18-21 |

## Program Relationships

Corresponding Program(s):

| Corresponding Program(s) |
|---|
| Natural Resources & Environmental Sciences, BS |

## Program Features

Academic Level Undergraduate

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

## Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

## Enrollment

Describe how this revision will impact enrollment and degrees awarded.

There is no impact to the annual number of degrees awarded or enrollment.

## Budget

Are there budgetary implications for this revision?

No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

No

Additional Budget Information

Attach File(s)

## Financial Resources

How does the unit intend to financially support this proposal?

These changes only impact courses currently offered, so we do not anticipate any financial costs to this revision.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

## Resource Implications

## Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

## Technology

Will the program need additional technology beyond what is currently available for the unit?

No

## Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

## Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.

Attach File(s)

## Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

No impact on unit.

## Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

Current collections and services are adequate for the proposed program.

## EP Documentation

| | |
|---|---|
| EP Control Number | EP.22.068 |
| Attach Rollback/Approval Notices | |
| This proposal requires HLC inquiry | No |

## DMI Documentation

| | |
|---|---|
| Attach Final Approval Notices | |
| Banner/Codebook Name | Environmental Science and Management |
| Program Code: | 5685 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Minor Code | 0051 | Conc Code | 5685 | Degree Code | BS | Major Code | |

| | |
|---|---|
| Senate Approval Date | |
| Senate Conference Approval Date | |
| BOT Approval Date | |
| IBHE Approval Date | |
| HLC Approval Date | |
| Effective Date: | |
| Attached Document | |
| Justification for this request | |
| Program Reviewer Comments | **Kathy Martensen (kmartens) (01/19/22 1:54 pm):** Administrative approval: Does not change total hours; doesn't restrict student choice. |

Key: 632