EP.22.082 Report of Administrative Approvals through January 31, 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 31, 2022. Additional information for each approval is attached.

A. Graduate Programs
   1) MME in Music Education – revises the music electives and music education electives list as well as the EPSY, EPOL, or CI requirement as detailed in the attachment. There is no change in the total hours required for the degree.
   2) MA in Geography – updates the courses to reflect the department’s current rubric, GGIS, as detailed in the attachment. There is no change in the total hours required for the degree.
   3) PhD in Geography – updates the courses to reflect the department’s current rubric, GGIS, as detailed in the attachment. There is no change in the total hours required for the degree.
   4) MS in Geography – updates the courses to reflect the department’s current rubric, GGIS, as detailed in the attachment. There is no change in the total hours required for the degree.
   5) Geographic Information Science – Professional Science Masters Concentration in the MS in Geography – updates the courses to reflect the department’s current rubric, GGIS, as detailed in the attachment. There is no change in the total hours required for the degree.
   6) MSUD in Sustainable Urban Design – updates the Geography and GIS courses in the electives list to reflect that department’s current rubric, GGIS, as detailed in the attachment. There is no change in the total hours required for the degree.

B. Undergraduate Programs
   1) Minor in Art & Design – adds a portfolio requirement for admission to the minor and expands students’ course options as detailed in the attachment. There is no change in the total hours required for the minor.
   2) BS in Supply Chain Management – updates the major electives course list as detailed in the attachment. There is no change in the total hours required for the degree.
   3) BS in Operations Management – updates the list of core and elective courses as detailed in the attachment. There is no change in the total hours required for the degree.
   4) BS in Computer Science + Music – revisions to the requirements to the Computer Science component and the Music component as detailed in the attachment. There is no change in the total hours required for the degree.
   5) BSLAS in Statistics & Computer Science – revisions to the requirements of the Computer Science component as detailed in the attachment. There is no change in total hours required for the degree.
   6) BSLAS in Mathematics & Computer Science – revisions to the requirements of the Computer Science component as detailed in the attachment. There is no change in total hours required for the degree.
7) **BSLAS in CS + Astronomy** – revisions to the requirements of the Computer Science component as detailed in the attachment. There is no change in total hours required for the degree.

8) **BSLAS in CS + Chemistry** – revisions to the requirements to the Computer Science component and the Chemistry component as detailed in the attachment. There is no change in the total hours required for the degree.

9) **BSLAS in CS + Linguistics** – revisions to the requirements of the Computer Science component as detailed in the attachment. There is no change in total hours required for the degree.

10) **BSLAS in CS + Economics** – revisions to the requirements of the Computer Science component as detailed in the attachment. There is no change in total hours required for the degree.

11) **BSLAS in CS + Philosophy** – revisions to the requirements of the Computer Science component as detailed in the attachment. There is no change in total hours required for the degree.

12) **Teacher Education Minor in Mathematics, Grades 9-12** – removes a course no longer taught from the list of Linear Algebra options as detailed in the attachment. There is no change in total hours required for the minor.
Program Change Request

Date Submitted: 11/17/21 11:51 am

Viewing: **10KS0168MME : Music Education, MME**

Last approved: 04/11/19 1:06 pm
Last edit: 01/27/22 3:18 pm
Changes proposed by: Linda Moorhouse

Catalog Pages
Using this Program

Proposal Type:

Music Education, MME

In Workflow

1. U Program Review
2. 1495 Head
3. 1541 Head
4. KN Committee Chair
5. KN Dean
6. KR Dean
7. University Librarian
8. Grad_College
9. COTE Programs
10. Provost
11. Senate EPC
12. Senate
13. U Senate Conf
14. Board of Trustees
15. IBHE
16. HLC
17. DMI

Approval Path

1. 11/17/21 4:29 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 11/17/21 8:28 pm
   Jeff Sposato (jsposato):
   Approved for 1495 Head
3. 11/30/21 9:02 am
   Brenda Clevenger (bmclvngr):
   Approved for 1541 Head
4. 12/06/21 12:41 pm
   Wenhao David Huang (wdhuang):
Major (ex. Special Education)

This proposal is for a:

Revision
## Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Music Education, MME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Fine &amp; Applied Arts</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Music</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Dr. Linda Moorhouse</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:moorhouz@illinois.edu">moorhouz@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Dr. Nicole Turner</td>
</tr>
<tr>
<td>College Contact Email</td>
<td><a href="mailto:nicturn@illinois.edu">nicturn@illinois.edu</a></td>
</tr>
</tbody>
</table>

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.*

> The sponsor will edit the proposal if necessary.

Does this program have inter-departmental administration?

> Yes  No

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.

> COTE

College Department

<table>
<thead>
<tr>
<th>College</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Council on Teacher Education</td>
</tr>
</tbody>
</table>

Is there an additional department involved in governance?

> No

## Proposal Title

<table>
<thead>
<tr>
<th>Effective Catalog Term</th>
<th>Spring 2022</th>
</tr>
</thead>
</table>
Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the MME.

Revision to the Master of Music Education, School of Music, College of Fine and Applied Arts

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?

This is an administrative action to substitute "EPOL (Education Policy, Organization and Leadership)" for "EPS (Educational Policy)" in the MME Course List Table on line four. The EPS rubric is being phased out.

Currently in the MME Course List Table, Line 4: "EPSY, EPS or C&I (Educational Psychology, Educational Policy or Curriculum & Instruction) 4 [hours]"

Line 4 Revision: "EPSY, EPOL, or CI (Educational Psychology; Education Policy, Organization and Leadership; or Curriculum and Instruction) 4 [hours]"

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).

This revision will not impact the learning outcomes and assessment of these outcomes.

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

Yes No

If yes, please describe.

Teacher certification program.
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
Corresponding Degree
MME Master of Music Education

Program Features

Academic Level Graduate

Does this major have transcripted concentrations? No

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

What are the minimum Total Credit Hours required for this program? 32

What is the required GPA? 3.0

CIP Code 131312 - Music Teacher Education.

Is This a Teacher Certification Program? No

Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 532</td>
<td>Curricular Perspectives on Music Education</td>
<td>4</td>
</tr>
<tr>
<td>MUS 533</td>
<td>Research in Music Education</td>
<td>4</td>
</tr>
</tbody>
</table>

Music Education Electives: Any 400 or 500-level music education course 6-8
EPSY, EPOL, or CI (Educational Psychology; Education Policy, Organization and Leadership; or Curriculum and Instruction) 4
Music Electives: Any MUS 400- or MUS 500-level course. Note: Applied Study (4 cr. max), Ensemble 10 (1 cr. max)

Choose 1 Capstone Option:
- Capstone Option I: MUS 569 - Capstone Project Synthesis (2 credits)
- Capstone Option II: MUS 599 - Thesis (4 credits)

Total Hours 32

Other Requirements

Grad Other Degree Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Other requirements may overlap</td>
<td></td>
</tr>
<tr>
<td>Minimum Hours Required Within the Unit</td>
<td>14</td>
</tr>
<tr>
<td>Minimum 500-level Hours Required Overall</td>
<td>12</td>
</tr>
<tr>
<td>Minimum GPA</td>
<td>3.0</td>
</tr>
</tbody>
</table>

1

For additional details and requirements refer to the department's Graduate Handbook https://music.illinois.edu/graduate-handbooks and the Graduate College Handbook.

New Footnote

Corresponding Degree
MME Master of Music Education

Program Features

Academic Level Graduate

Does this major have transcripted concentrations? No

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

What are the minimum Total Credit Hours required for this program? 32

What is the required GPA? 3.0

CIP Code 131312 - Music Teacher Education.

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
Spring 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.
No impact.

Describe how critical academic functions such as admissions and student advising are managed.
No impact.

Enrollment
Describe how this revision will impact enrollment and degrees awarded.
No impact.

Estimated Annual Number of Degrees Awarded

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

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?
Financial Resources

How does the unit intend to financially support this proposal?

N/A

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)

N/A

Are you seeking a change in the tuition rate or differential for this program?
No

Is this program requesting self-supporting status?
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.

**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.

**EP Documentation**

EP Control Number
EP.22.082

Attach Rollback/Approval Notices

This proposal requires HLC inquiry

**DMI Documentation**

Attach Final Approval Notices

Banner/Codebook Name
MME:Music Education -UIUC

Program Code: 10KS0168MME

Minor Code Conc Code Degree Code MME Code Major Code
0168

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date
Kathy Martensen (kmartens) (01/27/22 9:35 am): Administrative approval: Does not change total hours/restrict students' options.

Key: 396
Program Change Request

Date Submitted: 01/07/22 1:38 pm

Viewing: 10KS0341MA: Geography, MA

Last approved: 01/22/20 4:51 pm
Last edit: 01/27/22 3:19 pm
Changes proposed by: Matthew Cohn

Catalog Pages
Using this Program

Proposal Type:

In Workflow

1. U Program Review
2. 1872 Head
3. SESE Head
4. KV 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. 01/07/22 1:59 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/07/22 5:30 pm
   Shaowen Wang (shaowen):
   Approved for 1872 Head
3. 01/07/22 6:07 pm
   Jonathan Tomkin (tomkin):
   Approved for SESE Head
4. 01/12/22 3:24 pm
   Stephen Downie (sdownie):
   Approved for KV Dean
5. 01/12/22 3:26 pm
   John Wilkin (jpwilkin):
   Approved for...
Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

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<th>Official Program Name</th>
<th>Geography, MA</th>
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<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
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<td>Sponsor Department</td>
<td>Geography and Geographic Information Science</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Matt Cohn</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:mcohn@illinois.edu">mcohn@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Stephen R. Downie</td>
</tr>
<tr>
<td>College Contact Email</td>
<td><a href="mailto:sdownie@illinois.edu">sdownie@illinois.edu</a></td>
</tr>
</tbody>
</table>

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 Fall 2022

Term

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

Administrative approval to revise the MA in Geography.

Curricula update to 10KS0341MA: Geography, MA

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).

Related programs in this group: Geography, MA (324), Geography, MS (593), Geography: Geographic Information Science - Professional Science Master's, MS (608) and Geography, PhD (323).

Program Justification

Why are these changes necessary?

Updating Degree Requirements tables 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).

1. All graduate students will have a fundamental understanding of the history and philosophies of geography in all its diversity and breadth.
2. All graduate students will have knowledge of the latest trends and developments in geography as social science, a discipline increasingly rooted in geographic information science, and physical science.
3. All graduate students will have a deep and nuanced comprehension of the latest conceptual developments in their selected research areas.
4. All graduate students will have the ability to formulate a research problem, know the proper conceptual tools and methods to appropriately address it, and properly place it in evolving, relevant literature.
5. All graduate students will have a strong knowledge of proper ethical conduct in the performance and completion of advanced research.

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

Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 471</td>
<td>Course GEOG 471 Not Found</td>
<td>4</td>
</tr>
</tbody>
</table>
Program Features

Academic Level: Graduate

Corresponding Degree: MA Master of Arts

Program Features

Each student must also fulfill program requirements specific to their specialty area.

Other Requirements

Grad Other Degree Requirements

Other requirements may overlap

A maximum of 2 elective courses may be taken CR/NC.

Minimum Hours Overall Required Within the Unit: 16

Minimum 500-level Hours Required Overall: 12 (8 in GGIS)

Minimum GPA: 3.0

Non-Thesis Option

Course List

At least one course on geographic information systems (GIS) and related geospatial techniques

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 471</td>
<td>Course GEOG 471 Not Found</td>
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<tr>
<td>GEOG 491</td>
<td>Course GEOG 491 Not Found</td>
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<tr>
<td>GGIS 471</td>
<td>Recent Trends in Geog Thought</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 491</td>
<td>Research in Geography</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Hours: 32

Other Requirements

Grad Other Degree Requirements

Other requirements may overlap

Some Geography program options do not allow the non-thesis Master's degree option.

Contact the department for further details.

Two written research papers which address substantive research questions are required along with a comprehensive examination.

A maximum of 2 elective courses may be taken CR/NC.

Minimum Hours Overall Required Within the Unit: 16

Minimum 500-level Hours Required Overall: 12 (8 in GGIS)

Minimum GPA: 3.0
Does this major have transcripted concentrations?  
No

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

What are the minimum Total Credit Hours required for this program?  
32

What is the required GPA?  
3.0

CIP Code 450701 - Geography.

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

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?  
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

Is this program requesting self-supporting status?  
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.22.082
Attach Rollback/Approval Notices
This proposal requires HLC inquiry
No

DMI Documentation
Attach Final Approval Notices
Banner/Codebook MA:Geography -UIUC
Name

Program Code: 10KS0341MA

Minor Code

Conc 0341

Conc Code

Degree Code MA 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

Allison McKinney (agrindly) (01/21/22 2:59 pm): Administratively approved by the Graduate College.

Kathy Martensen (kmartens) (01/27/22 9:37 am): Administrative approval: Does not change total hours/restrict students' options.

Key: 324
Program Change Request

Date Submitted: 01/07/22 1:39 pm

Viewing: 10KS0341PHD: Geography, PhD

Last approved: 01/22/20 4:51 pm
Last edit: 01/27/22 3:20 pm
Changes proposed by: Matthew Cohn

Catalog Pages
Using this Program

Proposal Type:

In Workflow
1. U Program Review
2. 1872 Head
3. SESE Head
4. KV 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. 01/07/22 1:59 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/07/22 5:31 pm
   Shaowen Wang (shaowen):
   Approved for 1872 Head
3. 01/07/22 6:07 pm
   Jonathan Tomkin (tomkin):
   Approved for SESE Head
4. 01/12/22 1:46 pm
   Stephen Downie (sdownie):
   Approved for KV Dean
5. 01/12/22 3:27 pm
   John Wilkin (jpwilkin):
   Approved for
Major (ex. Special Education)

This proposal is for a: Revision

Administration Details

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<thead>
<tr>
<th>Official Program Name</th>
<th>Geography, PhD</th>
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<tbody>
<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
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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.
Proposal Title

Effective Catalog: Fall 2022

Term

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

Administrative approval to revise the PhD in Geography.

Curricula update to 10KS0341PHD: Geography, PhD

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).

Related programs in this group: Geography, MA (324), Geography, MS (593), Geography: Geographic Information Science - Professional Science Master's, MS (608) and Geography, PhD (323).

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).

1. All graduate students will have a fundamental understanding of the history and philosophies of geography in all its diversity and breadth.
2. All graduate students will have knowledge of the latest trends and developments in geography as social science, a discipline increasingly rooted in geographic information science, and physical science.
3. All graduate students will have a deep and nuanced comprehension of the latest conceptual developments in their selected research areas.
4. All graduate students will have the ability to formulate a research problem, know the proper conceptual tools and methods to appropriately address it, and properly place it in evolving, relevant literature.
5. All graduate students will have a strong knowledge of proper ethical conduct in the performance and completion of advanced research.

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

Entering with approved M.S./M.A. Entering with approved MA/MS degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 471</td>
<td>Course GEOG 471 Not Found</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 491</td>
<td>Course GEOG 491 Not Found</td>
<td>2</td>
</tr>
</tbody>
</table>
Doctoral students are required to demonstrate competence in a specific research technique.

Students must fulfill program requirements specific to their specialty area.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum 500-level Hours Required Overall:</td>
<td>12 (8 in GGIS)</td>
</tr>
</tbody>
</table>

Must complete a major research paper of publishable quality approved by the student’s advisory committee.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualifying Exam Required</td>
<td>Yes</td>
</tr>
<tr>
<td>Preliminary Exam Required</td>
<td>Yes</td>
</tr>
<tr>
<td>Final Exam/Dissertation Defense Required</td>
<td>Yes</td>
</tr>
<tr>
<td>Dissertation Deposit Required</td>
<td>Yes</td>
</tr>
<tr>
<td>Minimum GPA:</td>
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</tr>
</tbody>
</table>

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</tr>
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<td>GGIS 599</td>
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</tr>
</tbody>
</table>

Total Hours: 64

Other Requirements

Grad Other Degree Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
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</tbody>
</table>

Total Hours: 96

Other Requirements

Entering with approved BA/BS degree

Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>At least two graduate-level courses on analytical research methods (at least one of which must be in geographic information systems (GIS) or related geospatial techniques)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GGIS 471</td>
<td>[Course GGIS 471 Not Found]</td>
<td>4</td>
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</tbody>
</table>

Total Hours: 64
Corresponding Degree
PhD Doctor of Philosophy

Program Features

Academic Level
Graduate

Does this major have transcripted concentrations?
No

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

What are the minimum Total Credit Hours required for this program?
64

What is the required GPA?
3.0

CIP Code
450701 - Geography.

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

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

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

Is this program requesting self-supporting status?
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.22.082

Attach Rollback/Approval Notices
This proposal No
requires HLC inquiry

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name: Doctor of Philosophy, PhD

Program Code: 10KS0341PHD

Minor Code: 0341

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

Allison McKinney (agrindly) (01/21/22 2:59 pm): Administratively approved by the Graduate College.

Kathy Martensen (kmartens) (01/27/22 9:39 am): Administrative approval: Does not change total hours/restrict students' options.

Key: 323
Program Change Request

Date Submitted: 01/07/22 1:40 pm

Viewing: 10KS5856MS : Geography, MS

Last approved: 02/20/19 5:14 pm
Last edit: 01/27/22 3:20 pm
Changes proposed by: Matthew Cohn

Proposal Type:

In Workflow
1. U Program Review
2. 1872 Head
3. SESE Head
4. KV 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. 01/07/22 1:59 pm
   Deb Forgacs
   (dforgacs):
   Approved for U Program Review
2. 01/07/22 5:31 pm
   Shaowen Wang
   (shaowen):
   Approved for 1872 Head
3. 01/07/22 6:07 pm
   Jonathan Tomkin
   (tomkin):
   Approved for SESE Head
4. 01/12/22 3:27 pm
   Stephen Downie
   (sdownie):
   Approved for KV Dean
5. 01/12/22 3:30 pm
   John Wilkin
   (jpwilkin):
   Approved for
Major (ex. Special Education)

This proposal is for a:

Revision

Administration Details

Official Program Name: Geography, MS
Sponsor College: Liberal Arts & Sciences
Sponsor Department: Geography and Geographic Information Science
Sponsor Name: Matt Cohn
Sponsor Email: mcohn@illinois.edu
College Contact: Stephen R. Downie
College Contact Email: sdowen@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.
Proposal Title

Effective Catalog: Fall 2022

Term

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

Administrative approval to revise the MS in Geography.

Curricula update for 10KS5856MS: Geography, MS

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).

Related programs in this group: Geography, MA (324), Geography, MS (593), Geography: Geographic Information Science - Professional Science Master's, MS (608) and Geography, PhD (323).

Program Justification

Why are these changes necessary?

Updating degree requirements tables with new GGIS 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).

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5. All graduate students will have a strong knowledge of proper ethical conduct in the performance and completion of advanced research.

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

Thesis Option

Course List

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<td>Recent Trends in Geog Thought</td>
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</table>
Approved Program Requirements

Last Approved: Jan 22, 2020 4:51pm

Thesis Option

Course List

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<td>GEOG 599</td>
<td>Thesis Research (8 max applied toward degree)</td>
<td>8</td>
</tr>
</tbody>
</table>

Total Hours: 32

Other Requirements

Grad Other Degree Requirements

Requirement Description

Other requirements may overlap

Some Geography program options do not allow the non-thesis Master's degree option.

Contact the department for further details.

Two written research papers which address substantive research questions are required along with a comprehensive examination.

A maximum of 2 elective courses may be taken CR/NC.

Minimum Hours Overall Required Within the Unit: 16

Minimum 500-level Hours Required Overall: 12 (8 in GGIS)

Minimum GPA: 3.0

Non-Thesis Option

Course List

<table>
<thead>
<tr>
<th>Code</th>
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Other Requirements

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<tbody>
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<td>Academic Level</td>
<td>Graduate</td>
</tr>
<tr>
<td>Does this major have transcripted concentrations?</td>
<td>No</td>
</tr>
<tr>
<td>What is the typical time to completion of this program?</td>
<td>5 years</td>
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<td>What are the minimum Total Credit Hours required for this program?</td>
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<td>What is the required GPA?</td>
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</table>
CIP Code 450702 - Geographic Information Science and Cartography.

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 2018
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.

Admin Migration

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

Enrollment
Describe how this revision will impact enrollment and degrees awarded.
No impact on unit.

Estimated Annual Number of Degrees Awarded

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>Admin Migration</th>
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</thead>
</table>

Admin Migration

What is the matriculation term for this program?
Fall

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?
   Admin Migration
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?
   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.

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 are sufficient.

EP Documentation

EP Control Number
EP.22.082

Attach Rollback/Approval Notices
This proposal requires HLC inquiry

No impact on unit.

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name
MS:Geography -UIUC

Program Code: 10KS5856MS

Minor Code
5856

Degree Code
MS

Major Code

Senate Approval Date

Senate Conference Approval Date
Deb Forgacs (dforgacs) (01/07/22 3:48 pm): This program was migrated into the CIM incorrectly. I fixed the error in this revision, but it makes it look like the whole program was wrong, but it is not. I had to re-enter the entire POS table.

Allison McKinney (agrindly) (01/21/22 2:58 pm): Administratively approved by the Graduate College.

Kathy Martensen (kmartens) (01/27/22 9:40 am): Administrative approval: No change to total hours required/does not restrict student choice.
Program Change Request

Date Submitted: 01/07/22 1:41 pm

Viewing: **1PKS5856MS**: Geography: **GIS, MS-PSM**

Last approved: 01/22/20 4:53 pm

Last edit: 01/27/22 3:31 pm

Changes proposed by: Matthew Cohn

Catalog Pages
Using this Program

**Geography: Geographic Information Science - Professional Science Master's, MS**

Proposal Type:

In Workflow

1. U Program Review
2. 1872 Head
3. SESE Head
4. KV 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. 01/07/22 2:00 pm
   Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/07/22 5:34 pm
   Shaowen Wang (shaowen): Approved for 1872 Head
3. 01/07/22 6:07 pm
   Jonathan Tomkin (tomkin): Approved for SESE Head
4. 01/12/22 3:29 pm
   Stephen Downie (sdownie): Approved for KV Dean
5. 01/12/22 3:30 pm
   John Wilkin (jpwilkin): Approved for
Concentration (ex. Dietetics)

This proposal is for a: Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Geography: GIS, MS-PSM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Geography and Geographic Information Science</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Matt Cohn</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:mcohn@illinois.edu">mcohn@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Stephen R. Downie</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:sdownie@illinois.edu">sdownie@illinois.edu</a></td>
</tr>
<tr>
<td>College Budget Officer</td>
<td></td>
</tr>
<tr>
<td>College Budget Officer Email</td>
<td></td>
</tr>
</tbody>
</table>
Proposal Title

Effective Catalog  Fall 2022
Term

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

Administrative approval to revise the Geographic Information Science PSM concentration in the MS in Geography.

Curricula update to 1PKS5856MS: Geography: GIS, MS-PSM

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).

Related programs in this group: Geography, MA (324), Geography, MS (593), Geography: Geographic Information Science - Professional Science Master's, MS (608) and Geography, PhD (323).

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).

1. All PSM graduate students will have a firm understanding of the theories and applications of geographic information science and all its diversity and development trends.
2. All PSM graduate students will have proficiency in at least one GIS toolbox and will have the technical skills for data manipulation, editing, and geospatial data visualization.
3. All PSM graduate students will be able to effectively apply critical geospatial thinking to address real-world problems.
4. All PSM graduate students will acquire foundational business knowledge and professional skills to work as a geospatial analyst in a pertinent professional team environment.
5. All PSM graduate students will have a strong knowledge of proper ethical conduct in the context of developing and executing geospatial solutions.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose from following list in consultation with the faculty coordinator.</td>
<td></td>
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</tr>
<tr>
<td>GEOG-412</td>
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</table>
Corresponding Program(s):

### Code List

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<td>GEOG 440</td>
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<td>GEOG 473</td>
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<td>GEOG 595</td>
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<td>GGIS 412</td>
<td>Geospatial Technology &amp; Society</td>
<td>3</td>
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<tr>
<td>GGIS 421</td>
<td>Earth Systems Modeling</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 439</td>
<td>Health Applications of GIS</td>
<td>3</td>
</tr>
<tr>
<td>GGIS 460</td>
<td>Aerial Photo Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 473</td>
<td>Digital Cartography &amp; Map Design</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 476</td>
<td>Applied GIS to Environ Studies</td>
<td>3</td>
</tr>
<tr>
<td>GGIS 477</td>
<td>Introduction to Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GGIS 478</td>
<td>Techniques of Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GGIS 480</td>
<td>Principles of Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GGIS 489</td>
<td>Programming for GIS</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 560</td>
<td>Spatial Epidemiology</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 570</td>
<td>Advanced Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GGIS 590</td>
<td>Course GGIS 590 Not Found (Graduate Independent Study)</td>
<td>1 to 8</td>
</tr>
</tbody>
</table>

Other GIS-related courses may be substituted with permission of the GIS-PSM Director.

**Total Hours for GIS-PSM concentration:** 32

**Other Requirements**

- Other requirements may overlap.
- The PSM concentration is required.
- Minimum hours required within the unit: 16
- Minimum 500-level credit hours (8 in GGIS): 12
- Evaluation conducted by the GIS-PSM Director and/or members of the GIS-PSM committee
- Full-time enrollment (12 credit hours or higher) is required in fall and spring semesters; summer enrollment is required for the internship.
- Minimum GPA: 3.0

*Students with no previous experience in GIS are required to take a graduate-level GIS course.*

### Program Relationships

**Corresponding Program(s):**
Corresponding Program(s)
Geography, MS

Program Features

Academic Level: Graduate

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?
Will the unit need to seek campus or other external resources?  
No

Attach letters of support

Is this program requesting self-supporting status?  
No

<table>
<thead>
<tr>
<th>Resource Implications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Facilities</strong></td>
</tr>
</tbody>
</table>
| 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 |

<table>
<thead>
<tr>
<th>Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

Attach File(s)

<table>
<thead>
<tr>
<th>Faculty Resources</th>
</tr>
</thead>
</table>
| 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. |

<table>
<thead>
<tr>
<th>Library Resources</th>
</tr>
</thead>
</table>
| 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. |

<table>
<thead>
<tr>
<th>EP Documentation</th>
</tr>
</thead>
</table>
This proposal requires HLC inquiry: No

**DMI Documentation**

<table>
<thead>
<tr>
<th>Attach Final Approval Notices</th>
<th></th>
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<tr>
<td><strong>Banner/Codebook Name</strong></td>
<td><strong>MS:Geog:Geog Info Sci PSM/UIUC</strong></td>
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<td><strong>Program Code:</strong></td>
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<tr>
<td><strong>Minor Code</strong></td>
<td><strong>Conc Code</strong></td>
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<td><strong>5856</strong></td>
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<td><strong>Conc Code</strong></td>
<td><strong>Major Code</strong></td>
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</table>

**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**

**Allison McKinney (agrindly) (01/21/22 2:58 pm):** Administratively approved by the Graduate College.

**Kathy Martensen (kmartens) (01/27/22 9:42 am):** Administrative approval: No change to total hours required; does not restrict student choice.
Program Change Request

Viewing: **1PKS5721MSUD : Sustainable Urban Design, MSUD**

Date Submitted: 01/11/22 11:46 am

Last approved: 10/29/20 2:31 pm

Last edit: 01/27/22 3:31 pm

Changes proposed by: Nicole Turner

Catalog Pages
Using this Program

Proposal Type: Sustainable Urban Design, MSUD

In Workflow

1. U Program Review
2. 1569 Committee Chair
3. 1569 Head
4. KR 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. 01/12/22 2:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review

2. 01/12/22 5:08 pm
   Lori Davis (drlori):
   Approved for 1569 Committee Chair

3. 01/14/22 12:35 pm
   David Hays (dlhays):
   Approved for 1569 Head

4. 01/14/22 1:10 pm
   Nicole Turner (nicturn):
   Approved for KR Dean

5. 01/14/22 1:12 pm
   John Wilkin (jpwilkin):
This proposal is for a:
Revision

Administration Details

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<tr>
<th>Official Program Name</th>
<th>Sustainable Urban Design, MSUD</th>
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<td>Fine &amp; Applied Arts</td>
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<td>Sponsor Department</td>
<td>Landscape Architecture</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>David Hays</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:dlhays@illinois.edu">dlhays@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Nicole Turner</td>
</tr>
<tr>
<td>College Contact Email</td>
<td><a href="mailto:nicturn@illinois.edu">nicturn@illinois.edu</a></td>
</tr>
</tbody>
</table>

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.

KR Dean

Does this program have inter-departmental administration?
No

Proposal Title

Effective Catalog  Fall 2022
Term

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

Administrative approval to revise the MSUD in Sustainable Urban Design.

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).

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>LA 537</td>
<td>Planning &amp; Design Studio II</td>
<td>5</td>
</tr>
<tr>
<td>LA 589</td>
<td>Sustainable Urban Design Theory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Choose one elective broadly related to urban design: 3-4</td>
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<tr>
<td>ARCH 423</td>
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<td>GGIS 466</td>
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<td>GGIS 479</td>
<td>Advanced Topics in GIS</td>
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</tr>
<tr>
<td>GGIS 496</td>
<td>Climate &amp; Social Vulnerability</td>
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</table>
Corresponding Degree
MSUD Master of Sustainable Urban Design

Program Features

Academic Level
Graduate

Does this major have transcripted concentrations?
No

What is the typical time to completion of this program?
11 month

What are the minimum Total Credit Hours required for this program?
36

What is the required GPA?
2.75

CIP Code
30.3301 - 30.3301

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 2019

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: see attached. 5th Year Estimate (or when fully implemented): see attached.

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
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

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?
   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.22.082

Attach Rollback/Approval Notices

This proposal requires HLC inquiry No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name
MSUD: Sust Urban Design - UIUC

Program Code: 1PKS5721MSUD

Minor Code Concordance Code Degree Code MSUD Code Major Code
5721

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date
<table>
<thead>
<tr>
<th>Program Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Allison McKinney (agrindly) (01/21/22 2:58 pm)</strong></td>
<td>Administratively approved by the Graduate College.</td>
</tr>
<tr>
<td><strong>Kathy Martensen (kmartens) (01/27/22 9:47 am)</strong></td>
<td>Administrative approval: Does not change total hours; doesn't restrict student choice.</td>
</tr>
</tbody>
</table>
Program Change Request

In Workflow
1. U Program Review
2. 1526 Head
3. KR 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

Proposal Type:

Art & Design Minor

Catalog Pages
Using this Program

Proposal Type:

Approval Path
1. 01/05/22 2:23 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/05/22 6:43 pm
   Melissa Pokorny (mpokorny):
   Approved for 1526 Head
3. 01/25/22 10:36 am
   Nicole Turner (nicturn):
   Approved for KR Dean
4. 01/25/22 12:28 pm
   John Wilkin (jpwilkin):
   Approved for University Librarian
5. 01/27/22 9:30 am
   Kathy Martensen (kmartens):

Viewing: **0252 : Art & Design Minor, UG**

Date Submitted: 12/22/21 1:42 pm

Last approved: 05/06/19 2:56 pm

Last edit: 01/27/22 3:13 pm

Changes proposed by: Nicole Turner

Last approved: 05/06/19

Catalog Pages
Using this Program

Changes proposed by: Nicole Turner

Date Submitted: 12/22/21 1:42 pm

Last approved: 05/06/19 2:56 pm

Last edit: 01/27/22 3:13 pm

Changes proposed by: Nicole Turner

Date Submitted: 12/22/21 1:42 pm

Last approved: 05/06/19 2:56 pm

Last edit: 01/27/22 3:13 pm

Changes proposed by: Nicole Turner

Date Submitted: 12/22/21 1:42 pm

Last approved: 05/06/19 2:56 pm

Last edit: 01/27/22 3:13 pm

Changes proposed by: Nicole Turner
Minor (ex. European Union Studies)

This proposal is for a:

Revision

Administration Details

Official Program Name  Art & Design Minor, UG
Sponsor College  Fine & Applied Arts
Sponsor Department  Art and Design
Sponsor Name  Guen Montgomery
Sponsor Email  montgo@illinois.edu
College Contact Name  Nicole Turner
College Contact Email  nieturn@illinois.edu

College Budget Officer  Greg 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.

KR Dean

Does this program have inter-departmental administration?
No

Proposal Title

Effective Catalog  Fall 2022
Administrative approval to revise the undergraduate minor in Art & Design.

A revision for the undergraduate minor which adds a portfolio requirement for admission and expands students options for course completion. No change to total hours required for 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?
1. Add new ARTJ rubric courses as appropriate to meet minor requirements, including as a full rubric option added to the "either academic or studio" course menu
2. Update minor admissions requirement, including update the catalog page text
3. Reorganize degree table to delete footnotes

Demand for the minor continues to increase and seat capacity continues to be a challenge in upper-level courses for students outside of the School of Art and Design. Many courses have reserved seats for minor students, but this proposal adds additional courses from the ARTJ rubric and also adds a portfolio requirement as part of the application for admission.

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).

Learning outcomes for the Art and Design minor mirror the learning outcomes for an Art and Design major, with the understanding that students entering the Art & Design minor do not necessarily wish to pursue a career as a practicing artist or designer. Instead, minors want creative opportunities, and to enhance their primary field of study through the perspectives and strategies of art and design. By working creatively in the visual arts, students acquire technical skills related to their field of interest, along with visual literacy, critical thinking, complex problem solving, and qualitative reasoning. In addition to studio and design opportunities, the minor also provides an overview of historic and cultural contexts for art and design through a menu of required "academic-type" courses.

Students will enter the minor program through a 5-image portfolio review. Instead of assessing prior knowledge or technical skill, the primary objective of the portfolio review is to determine a student's level of commitment to the program and their potential for creative growth. Preference is given to students who have any kind of making practice, including digital and non-traditional forms of making. A committee of three Art and Design faculty serve as reviewers. Students who are not accepted to the program during the mid-term semester review are allowed to apply again in a subsequent semester. The Art and Design minor advisor, Guen Montgomery, will work with prospective students before each semester review to prepare their portfolios.

The Art and Design minor has proven to be very popular, and interest sometimes exceeds administrative capacity. The review will benefit the program by staggering matriculation into the minor, and by filtering students who may not have sufficient time or interest to complete the program.

Student progress in the minor is assessed through advising sessions with Guen Montgomery. Students are evaluated individually in their Art and Design classes based on outcomes and expectations laid out in course syllabi. Art and Design courses are reviewed and assessed internally, through the School of Art and Design, and externally through the National Association of Schools of Art and Design, the primary accrediting organization for colleges, schools, and universities in the United States.

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 sponsoring 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  
A+D minor side by side FA 22 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

The Art & Design Minor provides students with the opportunity to integrate creative art and design practices with other academic or research pursuits. Students selecting the Art & Design Minor do not necessarily wish to pursue a career as a practicing artist or designer, but do want the chance to work creatively in the visual arts and develop related skills.

Students can choose to focus on one particular art form (e.g., photography) or a variety of different media (e.g., photography, typography, and/or ceramics).

Admission: Applicants for admission to the Minor in Art+Design should submit a personal essay explaining their interest in art and design to the Minor Advisor. A minimum cumulative GPA of 2.00 is required. Pre-requisites: Students will be required to have passed one of the approved courses for non-majors (ART 102, 103, 104 or 102-105, 140) and submit a 5-image portfolio for entry into the Minor. The minor advisor will work with prospective students to prepare their portfolio for review. Portfolios are reviewed once a semester, at midterm. A minimum cumulative GPA of 2.00 is required. Contact the minor advisor, Guen Montgomery, montgo@illinois.edu, for portfolio formatting details and for the submission deadline.

After admittance to the minor, this pre-requisite will then be applied to either the studio or academic requirement as appropriate. Course Requirements: Students must meet the following course requirements for a total of 18 hours. A minimum of six hours must be completed at the 300- or 400-level. Contact: Guen Montgomery, Art and Design Minor Advisor, 129 Art and Design Building, 333-0855.montgo@illinois.edu

Statement for Programs of Study Catalog

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Distribution of Courses

A minimum of 2 courses from the academic course menu. Academic courses include: ART 100, ART 140, ARTE 260, ARTE 475, ARTE 480, ARTH 110 or any 100, 200, 300, or 400 level ARTH course.  

A minimum of 3 courses from the studio course menu. Studio courses include: ART (except 100, 140), ARTD, ARTE (except 260, 475, 480), ARTF, and ARTS courses.  

1 1 required course:  
- **ART 100** Understanding Visual Culture  
- **ART 140** Introduction to Art  
- **ARTH 110** Introduction to the History of Art and Visual Culture  

A minimum of 1 course from the academic menu:  
- **ART 100** Understanding Visual Culture (if not taken above)  
- **ART 140** Introduction to Art (if not taken above)  
- **ARTH 110** Introduction to the History of Art and Visual Culture (if not taken above)  
- **ARTH ###** Any level ARTH course, not counted elsewhere in minor  
- **ARTJ 209** Chado (The Way of Tea)  
- **ARTJ 299** Seminar in Japanese Aesthetics  
- **ARTJ 302** Intro to Japanese Animation  
- **ARTJ 398** Designing Everyday Life in Modern Japan  
- **ARTJ 397** Zen, Tea, and Power  
- **ARTE 260** Museums in Action  
- **ARTE 475** Art Exhibition Practices  
- **ARTE 480** Popular Visual Culture  

A minimum of 3 courses from the studio menu:  
- **ART ###** Any ART courses, except 100 or 140  
- **ARTD ###** Any ARTD courses (high demand Industrial Design and Graphic Design courses are typically not available to minors)  
- **ARTE ###** Any ARTE courses, except 260, 475, 480  
- **ARTF ###** Any ARTF courses  
- **ARTS ###** Any ARTS courses  
- **ARTJ 101** Introduction to Japanese Aesthetics  
- **ARTJ 199** Special Topics in Japanese Aesthetic Practices  
- **ARTJ 301** Manga: The Art of Image and Word  
- **ARTJ 399** Japan House Internship  

At least 1 additional course in either academic or studio course menu.  

A minimum of six hours must be completed at the 300 or 400 level.  

**Total Hours** 18  

1 At least one of these courses must be chosen from the following: ARTH 110%7C, ART 100%7C or ART 140%7C.  
2 High-demand Industrial Design and Graphic Design courses are typically not available to minors.
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.

[current practice, continued: ]Students will be required to have passed one of the approved courses for non-majors (ART 102, 103, 104 or 140) and [new for FA 22:] submit a 5-image portfolio for entry into the Minor. The minor advisor will work with prospective students to prepare their portfolio for review. Portfolios are reviewed once a semester, at midterm.  
[current continued] A minimum cumulative GPA of 2.00 is required.  
[new] Contact the minor advisor, Guen Montgomery, montgo@illinois.edu, for portfolio formatting details and for the submission deadline. no-change-to-current-practice

Are there any prerequisites for the proposed minor?  
No

Describe how this revision will impact enrollment and degrees awarded.

Currently, interest in the minor exceeds capacity in upper-division courses leading to a waitlist in which students are admitted based on the date they applied. Adding the portfolio requirement will add an additional expectation to gauge genuine interest and areas for skill development, while also slowing the immediate entrance into the minor which led to course capacity issues.

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?
   Revision to the minor does not require a change in financial 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)
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 this revision to the undergraduate minor in Art and Design.

EP Documentation

EP Control Number

EP.22.082

Attach Rollback/Approval Notices

This proposal requires HLC inquiry

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

Art and Design

Program Code: 0252

Minor Code 0252 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
Kathy Martensen (kmartens) (01/27/22 9:29 am): Administrative approval: Does not change total hours/restrict students' options.
# Distribution of Courses

A minimum of 2 courses from the academic course menu. Academic courses include: **ART 100, ART 140, ARTE 260, ARTE 475, ARTE 480, ARTH 110** or any 100, 200, 300, or 400 level ARTH course.  

## 1 required course: 3

<table>
<thead>
<tr>
<th>Course</th>
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At least 1 additional course in either an academic or studio course menu.

A minimum of six hours must be completed at the 300 or 400 level.

**Total Hours** 18

1 At least one of these courses must be chosen from the following: **ARTH 110, ART 100** or **ART 140**.

2 High demand Industrial Design and Graphic Design courses are typically not available to minors.

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<th>Studio courses include: ART (except 100, 140), ARTD, ARTE (except 260, 475, 480), ARTF, and ARTS courses.</th>
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**Total Hours** 18
Program Change Request

Date Submitted: 01/05/22 4:33 pm

Viewing: **10KM5071BS : Supply Chain Management, BS**

**Last approved: 04/02/21 2:59 pm**

**Last edit: 01/27/22 9:31 am**

Changes proposed by: Brian Fulton

**Proposal Type:**

**Catalog Pages Using this Program**

**Proposal Type:**

**In Workflow**

1. U Program Review
2. 1902 Committee Chair
3. 1902 Head
4. KM Committee Chair
5. KM 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. 01/06/22 1:58 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/07/22 3:04 am
   Mark Wolters (mwolter):
   Approved for 1902 Committee Chair
3. 01/07/22 8:27 am
   Carlos Torelli (ctorelli):
   Approved for 1902 Head
4. 01/17/22 9:09 pm
   Jiekun Huang (huangjk):
   Approved for KM Committee Chair
5. 01/24/22 12:19 pm
Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Supply Chain Management, BS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Gies College of Business</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Business Administration</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Nehemiah Scott</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:nehemiah@illinois.edu">nehemiah@illinois.edu</a></td>
</tr>
</tbody>
</table>
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.

Brian Fulton

Does this program have inter-departmental administration?
No

Proposal Title

Effective Catalog: Fall 2022

Term

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

Administrative approval to revise the BS in Supply Chain Management.

Update the major electives course list for the Bachelor of Science in Supply Chain Management.

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?

In industry, supply chain management is a cross-functional and cross-disciplinary field of practice that requires intra and interorganizational coordination. The current framework in practice is that of an integrated supply chain management system. It is important that our curriculum also aligns with this integrative view of supply chain management.

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).

- These new elective courses will now become a part of the annual submission of the Learning Outcomes Assessment Progress Report submitted to the Council for Learning Outcomes Assessment (C-LOA) at the University of Illinois. The learning objectives related to student learning outcomes include supply chain competence, critical thinking, group work, communication. These outcomes are mapped to questions concerning student ability to use data analytics and problem solving to effectively understand real-world supply chain issues, problem analysis and articulating conclusions, assuming leadership roles, grasp of international complexities effect global supply chains and etc. regular survey for student satisfaction and employer satisfaction with student knowledge

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

Specific Major Requirements: Students are required to complete an approved internship to earn the Bachelor of Science in
Supply Chain Management degree. **The approved internship must be completed and a report submitted prior to enrollment in BADM 336.**

### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 324</td>
<td>Purchasing and Supply Mgmnt (Prerequisite: Credit or current enrollment in BADM 320)</td>
<td>3</td>
</tr>
<tr>
<td>BADM 335</td>
<td>Supply Chain Management Basics</td>
<td>3</td>
</tr>
<tr>
<td>BADM 336</td>
<td>Modeling the Supply Chain (Prerequisite: BADM 335)</td>
<td>3</td>
</tr>
<tr>
<td>BADM 337</td>
<td>Practicum in Supply Chain Mgt</td>
<td>3</td>
</tr>
<tr>
<td>BADM 338</td>
<td>Global Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BADM 350</td>
<td>IT for Networked Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BADM 375</td>
<td>Operations Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BADM 378</td>
<td>Logistics Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BADM 312</td>
<td>Designing and Managing Orgs</td>
<td>3</td>
</tr>
<tr>
<td>BADM 322</td>
<td>Marketing Research (Prerequisite: BADM 320)</td>
<td>3</td>
</tr>
<tr>
<td>BADM 325</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BADM 327</td>
<td>Marketing to Business and Govt</td>
<td>3</td>
</tr>
</tbody>
</table>

**BADM 328** Advanced Sales Strategies

**BADM 352** Database Design and Management

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>BADM 329</td>
<td>New Product Development</td>
<td>3</td>
</tr>
<tr>
<td>BADM 331</td>
<td>Making Things</td>
<td>3</td>
</tr>
<tr>
<td>BADM 357</td>
<td>Digital Making Seminar</td>
<td>3</td>
</tr>
<tr>
<td>BADM 366</td>
<td>Product Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>BADM 367</td>
<td>Mgmt of Innov and Technology</td>
<td>3</td>
</tr>
<tr>
<td>BADM 374</td>
<td>Management Decision Models (Prerequisite: BADM 210)</td>
<td>3</td>
</tr>
<tr>
<td>BADM 377</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BADM 379</td>
<td>Business Process Improvement</td>
<td>3</td>
</tr>
<tr>
<td>BADM 453</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
</tbody>
</table>

1

**The approved internship must be completed prior to enrollment in BADM 336.** Code and a report on the internship must be submitted.

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? 120


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 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

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.

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.

Little to no impact on 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.

no impact on library resources

EP Documentation

EP Control    EP.22.0XX
Number

Attach Rollback/Approval Notices

This proposal requires HLC inquiry

No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name    BS: Supply Chain Mgmt -UIUC

Program Code: 10KM5071BS

Minor Code    Conc Code    Degree Code    BS Code    Major Code
5071

Senate Approval Date

Senate Conference Approval Date
Deb Forgacs (dforgacs) (01/05/22 4:23 pm): Rollback: requested.

Kathy Martensen (kmartens) (01/27/22 9:30 am): Administrative approval: Does not change total hours/restrict students' options.
Program Change Request

Viewing: **10KM5600BS : Operations Management, BS**

Last approved: 07/22/20 4:58 pm
Last edit: 01/27/22 3:16 pm
Changes proposed by: Brian Fulton

Catalog Pages
Using this Program

Proposal Type:

### In Workflow
1. U Program Review
2. 1902 Committee Chair
3. 1902 Head
4. KM Committee Chair
5. KM 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. 12/16/21 3:34 pm Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 12/17/21 12:43 pm Mark Wolters (mwolter):
   Approved for 1902 Committee Chair
3. 12/17/21 2:01 pm Carlos Torelli (ctorelli):
   Approved for 1902 Head
4. 01/11/22 8:47 pm Jiekun Huang (huangjk):
   Approved for KM Committee Chair
5. 01/24/22 12:19
Major (ex. Special Education)

This proposal is
for a:
Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Operations Management, BS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Gies College of Business</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Business Administration</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Swathi Baddam</td>
</tr>
</tbody>
</table>
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**  
Fall 2022  
**Term**

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

Administrative approval to revise the BS in Operations Management.

Update the list of core and elective courses for students in the Bachelor of Science in Operations Management degree program.

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 proposed changes will allow students to be more flexible in selecting electives to meet requirements of the program. The change will also allow for students to get a certificate in Business Analytics along with the BS degree when they choose electives that are also part of the Business Analytics requirements.

### 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 program assessment is done every year and checked for the progress made on the learning objectives mainly related to skill development, knowledge acquisition, and professional attributes. Some of the ways the assessment is done is through measuring program graduation rates, employer data, salary data, etc.

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  
CIM Proposal_OMDec2021_9.pdf

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 Operations Management (OM) Major prepares students for careers in manufacturing and service management, operations strategy consulting, purchasing and supply management, project management, and quality management. OM professionals work with most other units in any organization, more so with engineering, human resource management, information systems, and marketing. The OM curriculum focuses on analytical decision-making, logistics, new product development, operations strategy, process improvement, project management, quality control, and supply chain management. Students are trained in ways of developing, making, and delivering goods and services efficiently and effectively – generating value by satisfying ever-changing customer needs while improving profitability.
### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OM core requirements</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td>BADM 335</td>
<td>Supply Chain Management Basics</td>
<td>3</td>
</tr>
<tr>
<td>BADM 350</td>
<td>IT for Networked Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BADM 374</td>
<td>Management Decision Models (Prerequisite: ECON 203)</td>
<td>3</td>
</tr>
<tr>
<td>BADM 375</td>
<td>Operations Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BADM 377</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BADM 378</td>
<td>Logistics-Management</td>
<td>3</td>
</tr>
<tr>
<td>BADM 379</td>
<td>Business Process Improvement</td>
<td>3</td>
</tr>
<tr>
<td><strong>Choose two of the following elective courses 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADM 311</td>
<td>Leading Individuals and Teams</td>
<td>3</td>
</tr>
<tr>
<td>BADM 312</td>
<td>Designing and Managing Orgs</td>
<td>3</td>
</tr>
<tr>
<td>BADM 329</td>
<td>New Product Development (Prerequisite: BADM 320)</td>
<td></td>
</tr>
<tr>
<td>BADM 336</td>
<td>Modeling the Supply Chain</td>
<td>3</td>
</tr>
<tr>
<td>BADM 352</td>
<td>Database Design and Management</td>
<td></td>
</tr>
<tr>
<td>BADM 395</td>
<td>Special Topics (Sec. IOP)</td>
<td>3</td>
</tr>
<tr>
<td>BADM 353</td>
<td>Info Sys Analysis and Design (Prerequisite: BADM 350)</td>
<td></td>
</tr>
<tr>
<td>BADM 445</td>
<td>Small Business Consulting</td>
<td>4</td>
</tr>
<tr>
<td>BADM 446</td>
<td>Entrepreneurship: New Venture Creation</td>
<td>3</td>
</tr>
<tr>
<td>BADM 199</td>
<td>Undergraduate Open Seminar (section: Business in Action)</td>
<td>3 to 5</td>
</tr>
<tr>
<td>BADM 453</td>
<td>Business Intelligence</td>
<td>2</td>
</tr>
<tr>
<td><strong>Choose one of the following elective courses: 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

1. One of the elective course requirements from either sub-list above may be satisfied by an appropriate internship, approved in advance by the Head of the Department of Business Administration or designee.

2. Only one of these two Advanced Information Systems classes may be used for fulfilling the requirement for the major.

3. Only one of these three Experiential Learning classes may be used for fulfilling the requirement for the major.
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 520205 - Operations Management and Supervision.

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.

The hope is to increase enrollment and 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?
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

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)?
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.

Will not have any impact on additional faculty resources because all the courses are currently offered in the catalog and the enrollment change is minimal.

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 revision of the Operations Management program.

EP Documentation

EP Control Number
EP.22.082

Attach Rollback/Approval Notices
This proposal requires HLC inquiry

No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name
BS:Operations Management -UIUC

Program Code: 10KM600BS

Minor Code 5600

Conc Code

Degree Code BS Code

Major Code
Program Reviewer: Kathy Martensen (kmartens) (01/27/22 9:32 am): Administrative approval: Does not change total hours/restrict students' options.

Key: 461
### Appendix 1

<table>
<thead>
<tr>
<th>Current OM Core Requirements (3 cr. Hr * 6 = 18 hrs.)</th>
<th>Revised Requirements (3 cr. Hr * 6 = 18 hrs.)</th>
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</thead>
<tbody>
<tr>
<td>BADM 350 IT for Networked Organizations</td>
<td>BADM 335 Supply Chain Management Basics</td>
</tr>
<tr>
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<td>BADM 374 Management Decision Models</td>
</tr>
<tr>
<td>BADM 377 Project Management</td>
<td>BADM 375 Operations Strategy</td>
</tr>
<tr>
<td>BADM 378 Logistics Management</td>
<td>BADM 377 Project Management</td>
</tr>
<tr>
<td>BADM 379 Process improvement</td>
<td>BADM 379 Process improvement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Electives (2+1= 3 *3 cr hrs each = 9 hrs.)</th>
<th>Revised Electives (3 *3 cr hrs each = 9 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 2 from the list below</td>
<td>Select 3 from the list below</td>
</tr>
<tr>
<td>BADM 329 New Product Development</td>
<td>BADM 329 New Product Development</td>
</tr>
<tr>
<td>BADM 353 Info Sys Analysis and Design</td>
<td>BADM 353 Info Sys Analysis and Design</td>
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<tr>
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<tr>
<td>BADM 446 Entrepreneurship: New Venture Creation</td>
<td>BADM 336 Introduction to Entrepreneurship</td>
</tr>
<tr>
<td>BADM 199 Business in Action</td>
<td>BADM 395 IOP InfoSys &amp; OpMgment Practicum</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Total Credit Hrs. 27</th>
<th>Revised Total Credit Hrs. 27</th>
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<tbody>
<tr>
<td></td>
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</table>
Program Change Request

Date Submitted: 12/02/21 3:31 pm

Viewing: **10KR5639BS : Computer Science + Music, BS**

Last approved: 09/24/20 2:48 pm

Last edit: 01/27/22 3:17 pm

Changes proposed by: Linda Moorhouse

Catalog Pages
Using this Program

**Computer Science + Music, BS**

Proposal Type:

In Workflow

1. U Program Review
2. 1495 Head
3. 1434 Head
4. KP Committee Chair
5. KP Dean
6. KR Dean
7. University Librarian
8. Provost
9. Senate EPC
10. Senate
11. U Senate Conf
12. Board of Trustees
13. IBHE
14. HLC
15. DMI

Approval Path

1. 12/03/21 9:46 am
   Deb Forgacs (dforgacs): Approved for U Program Review

2. 12/03/21 9:48 am
   Jeff Sposato (jsposato): Approved for 1495 Head

3. 01/25/22 7:15 pm
   Elsa Gunter (egunter): Approved for 1434 Head

4. 01/26/22 12:01 pm
   Brooke Newell (bsnewell): Approved for KP Committee Chair

5. 01/26/22 12:04
Major (ex. Special Education)

This proposal is for a:
Revision

History

1. Feb 22, 2019 by Deb Forgacs (dforgacs)
2. Feb 22, 2019 by Deb Forgacs (dforgacs)
3. Sep 9, 2019 by Nicole Turner (nicturn)
4. Feb 3, 2020 by Deb Forgacs (dforgacs)
5. Sep 24, 2020 by Linda Moorhouse (moorhouz)
Administration Details

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<tr>
<td>Sponsor College</td>
<td>Fine &amp; Applied Arts</td>
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<td>Sponsor Department</td>
<td>Music</td>
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<tr>
<td>Sponsor Name</td>
<td>Dr. Linda Moorhouse</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:moorhouz@illinois.edu">moorhouz@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Dr. Nicole Turner</td>
</tr>
<tr>
<td>College Contact Email</td>
<td><a href="mailto:nicturn@illinois.edu">nicturn@illinois.edu</a></td>
</tr>
<tr>
<td>College Budget Officer</td>
<td>Greg Anderson</td>
</tr>
<tr>
<td>College Budget Officer Email</td>
<td><a href="mailto:gnanders@illinois.edu">gnanders@illinois.edu</a></td>
</tr>
</tbody>
</table>

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.**

Sponsor will edit proposal if rolled back.

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.

Computer Science oversees the courses in their area. The School of Music oversees the program.

College

Grainger College of Engineering

Department

Computer Science

Is there an additional department involved in governance?

No

Proposal Title

Effective Catalog Term

Fall 2021
Provide a brief, concise description (not justification) of your proposal.

Administrative approval to revise the BS in CS + Music

Revision of the Bachelor of Science in Computer Science and Music, School of Music, College of Fine and Applied Arts

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
These changes are a response to Computer Science's spring and fall 2021 course revisions along with recent School of Music course revisions. Revisions are notated below:

(1) Replace CS 125 (Introduction to Computer Science) and CS 126 (Software Design Studio) with CS 124 (Introduction to Computer Science I), CS 128 (Introduction to Computer Science II), and CS 222 (Software Design Lab). No change to overall course credits.

(2) Add an "either/or" pairing into the CS + Music Studies curriculum table: CS 233 (Computer Architecture) and CS 341 (System Programming) OR CS 340 (Introduction to Computer Systems) and any two 400-level CS courses above CS 403 (Accelerated Fundamentals of Algorithms II), excluding CS 421 (Programming Languages and Compilers) and CS 491 (Seminar). Note: CS 340 was formerly CS 240, and CS 341 was formerly CS 241.

(3) Replace CS 498 (Special Topics, Audio Signal Processing) with CS 448 (Audio Computing Laboratory).

(4) Add MUS 100 (First-year Seminar for Music Majors). This POTB course begins as FAA 101 (POTA) finishes and meets one day a week in the same day/time slot as the FAA 101 lecture. The course allows us to connect with our new music majors, see how they are doing physically and emotionally, answer questions they have about the degrees they are in, discuss what it means to be a music major, including the day-to-day stresses of assignments, homework, projects, and class attendance. We can address any problems more quickly, plus reinforce campus, FAA, and School of Music resources.

(5) Revise credit hours for MUS 110 (Intro to Art Music: Intl Perspectives) and MUS 208 (Musicianship IV) by adding one credit to each course. MUS 110 meets four days a week and MUS 208 meets three days a week. MUS 110 is now three credits; MUS 208 is now two credits.

(6) Delete the six hours of Advanced Musicology and Advanced Music Theory. The advanced musicology and music theory requirements are holdovers from previous degree formats. We are moving away from our degrees having to look and feel like one another.

(7) Replace "MUS 404 (Contemporary Compositional Techniques) or MUS 448 (Computer Music)" with MUS 305 (Computation and Music III), the third and final course in the sequence of Computation and Music. MUS 404 (Contemporary Compositional Techniques) is a course designed for composers and MUS 448 (Computer Music) is not offered anymore.

(8) Add MUS 202 (Music Theory and Practice IV), the fourth semester in the music theory sequence. This last year, we revised our music theory sequence to include more fundamental music literacy and music technology in the first music theory course (MUS 101, Music Theory and Practice I), which then required us to bring back the fourth
There is no change to the minimum overall program hours of 120 hours. Footnote tables are also updated.

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).

These revisions will not impact the learning outcomes and assessment of these 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

Curriculum_Table_CS+Music_SP22.pdf
SP22_Official_CS+Music_10222021.pdf

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.
Statement for Programs of Study Catalog

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

**General Education and College Orientation**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>FAA 101</td>
<td>Orientation to Fine &amp; Applied Arts and Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 100</td>
<td>First-year Seminar for Music Majors</td>
<td>0</td>
</tr>
<tr>
<td>MUS 313</td>
<td>Humanities and the Arts - fulfilled by MUS 313 and MUS 314</td>
<td>6</td>
</tr>
<tr>
<td>MUS 314</td>
<td>People of Ideas</td>
<td>1</td>
</tr>
<tr>
<td>CS 124</td>
<td>Quantitative Reasoning I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Quantitative Reasoning II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101</td>
<td>Music Core Coursework</td>
<td>2</td>
</tr>
<tr>
<td>MUS 102</td>
<td>Music Core Coursework</td>
<td>2</td>
</tr>
<tr>
<td>MUS 201</td>
<td>Music Core Coursework</td>
<td>2</td>
</tr>
</tbody>
</table>

1 **Completion of both MUS 313 and MUS 314 meets the general education requirement for Humanities and the Arts.**

2 **Completion of both CS 124 and CS 128 meets the general education requirement for Quantitative Reasoning I and Quantitative Reasoning II.**

3 **The Language Requirement may be satisfied by successfully completing a third-semester college-level course in a language other than English; successful completion, in high school, of the third year of a language other than English; or demonstrating proficiency at the third-semester level in a language proficiency examination approved by the College of Liberal Arts and Sciences and the appropriate department.**
All students must demonstrate keyboard competency when they audition, by proficiency examination when they matriculate, or by enrolling in MUS 172 and/or MUS 173.

### CS + Music Studies Core Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUS 105</td>
<td>Computation and Music I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 205</td>
<td>Computation and Music II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 299</td>
<td>Thesis/Adv UG Honors in Music</td>
<td>1 or 2</td>
</tr>
<tr>
<td>MUS 404</td>
<td>Contemp-Compos-Techniques</td>
<td>3</td>
</tr>
<tr>
<td>or MUS 448</td>
<td>Computer Music</td>
<td></td>
</tr>
<tr>
<td>MUS 305</td>
<td>Computation and Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 407</td>
<td>Elect Music Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 409</td>
<td>Elec Music Techniques II</td>
<td>2</td>
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<td></td>
<td>Advanced Music Theory</td>
<td>3</td>
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<tr>
<td></td>
<td>Advanced Musicology</td>
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<td></td>
<td>Senior Project or Senior Thesis</td>
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### Computer Science

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CS 125</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CS 126</td>
<td>Software Design Studio</td>
<td>3</td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 222</td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>CS 225</td>
<td>Data Structures</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one of the following CS combinations:

- CS 233 Computer Architecture 8
- & CS 341 and System Programming 4
- or CS 340 Introduction to Computer Systems
- and any two 400-level CS courses above CS 403, excluding CS 421 and CS 491 (6-8 hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 361</td>
<td>Probability &amp; Statistics for Computer Science</td>
<td>5</td>
</tr>
</tbody>
</table>
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? 120

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 374</td>
<td>Introduction to Algorithms &amp; Models of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 421</td>
<td>Programming Languages &amp; Compilers</td>
<td>3</td>
</tr>
<tr>
<td>CS 498</td>
<td>Special Topics (Audio-Signal Processing)</td>
<td>3</td>
</tr>
<tr>
<td>CS 448</td>
<td>Audio Computing Laboratory</td>
<td>3 or 4</td>
</tr>
<tr>
<td>ECE 402</td>
<td>Electronic Music Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus 6</td>
<td>4 or 5</td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Introductory Matrix Theory</td>
<td>2 or 3</td>
</tr>
<tr>
<td>or MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
<td></td>
</tr>
</tbody>
</table>

Completion of both MUS 313 and MUS 314 meets the general education requirement for Humanities and the Arts.

All students must demonstrate keyboard competency by examination when they matriculate or by enrolling in MUS 172 and/or MUS 173. It is possible to proficiency out of group piano courses through proficiency examination.

Completion of both CS 125 and CS 225 meets the general education requirement for Quantitative Reasoning I and Quantitative Reasoning II.

Students who are more interested in systems building can substitute CS 427 (Software Engineering I) for CS 361.

Students who are more interested in systems building can substitute CS 427 (Software Engineering I) for CS 361.

Students must take the ALEKS placement exam for course entry.
CIP Code 110199 - Computer and Information Sciences, Other.

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.

No impact.

Estimated Annual Number of Degrees Awarded

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

What is the matriculation term for this program? Fall

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
   N/A

Attach File(s)

Financial Resources

How does the unit intend to financially support this proposal?
   No impact.

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)
   N/A

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.

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.

EP Documentation

<table>
<thead>
<tr>
<th>EP Control Number</th>
<th>EP.22.082</th>
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</table>

Attach Rollback/Approval Notices

This proposal requires HLC inquiry

No impact.

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

BS:Computer Sci & Music - UIUC

Program Code: 10KR5639BS

Minor Code

5639

Conc Code

Degree Code

BS Code

Major Code

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date
Program Reviewer Comments

Deb Forgacs (dforgacs) (09/29/21 3:56 pm): Re-entered the proposal type, the corresponding program and the CIP code due to system bug 09/27/2021

Deb Forgacs (dforgacs) (10/06/21 2:39 pm): Rollback: Requested by Linda Moorhouse.

Jeff Sposato (jsposato) (10/06/21 10:18 pm): Rollback: Upon request

Jeff Sposato (jsposato) (11/04/21 4:32 pm): Rollback: Upon request

Elsa Gunter (egunter) (11/13/21 10:25 am): Rollback: I am rolling this back, per your request, so that you can incorporate the renumberings of CS 240 to CS 340 and CS 241 to CS 341. I have given you my comments on this by proposal otherwise by separate email. ---Elsa

Kathy Martensen (kmartens) (01/27/22 9:33 am): Administrative approval: Does not change total hours/restrict students' options.

Key: 136
### BS in CS + Music

**Current Curriculum** *(red text = deletion/edits)*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Hours</th>
<th>Course #</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAA 101</td>
<td>Arts at Illinois (POTA)</td>
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<td>FAA 101</td>
<td>Arts at Illinois (POTA)</td>
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<tr>
<td>MUS 100</td>
<td>First-year Seminar for Music (POTB)</td>
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**General Education and Orientation**

<table>
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<tr>
<th>Course Title</th>
<th>Hours</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Orientation to Arts at Illinois</td>
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<td>Orientation to FAA and Music</td>
<td></td>
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<tr>
<td>FAA 101</td>
<td>Arts at Illinois (POTA)</td>
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<td>FAA 101</td>
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<tr>
<td>MUS 100</td>
<td>First-year Seminar for Music (POTB)</td>
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**General Ed and Graduation Requirements**

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<tr>
<td>Composition I</td>
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<tr>
<td>Advanced Composition</td>
<td>3</td>
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<tr>
<td>Humanities and the Arts - fulfilled by MUS 313 and MUS 314</td>
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<td>Humanities and the Arts - fulfilled by MUS 313 and MUS 314</td>
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<td>Cultural Studies: Western/Comp Culture(s)</td>
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<tr>
<td>Cultural Studies: Non-Western Culture(s)</td>
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<td>Cultural Studies: Non-Western Culture(s)</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Studies: US Minority Culture(s)</td>
<td>3</td>
<td>Cultural Studies: US Minority Culture(s)</td>
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</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Reasoning I and II</td>
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<td>Quantitative Reasoning I and II</td>
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<tr>
<td>Natural Sciences and Technology</td>
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<td>Natural Sciences and Technology</td>
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<tr>
<td>Foreign Language</td>
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<td>41-52</td>
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**Music Core** *(Coursework)*

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101</td>
<td>Music Theory and Practice I</td>
<td>2</td>
<td>MUS 101</td>
</tr>
<tr>
<td>MUS 102</td>
<td>Music Theory and Practice II</td>
<td>2</td>
<td>MUS 102</td>
</tr>
<tr>
<td>MUS 201</td>
<td>Music Theory and Practice III</td>
<td>2</td>
<td>MUS 201</td>
</tr>
<tr>
<td>MUS 107</td>
<td>Musicianship I</td>
<td>2</td>
<td>MUS 107</td>
</tr>
<tr>
<td>MUS 108</td>
<td>Musicianship II</td>
<td>2</td>
<td>MUS 108</td>
</tr>
<tr>
<td>MUS 207</td>
<td>Musicianship III</td>
<td>2</td>
<td>MUS 207</td>
</tr>
<tr>
<td>MUS 208</td>
<td>Musicianship IV</td>
<td>4</td>
<td>MUS 208</td>
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</table>

**Musicology**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 110</td>
<td>Intro to Art Music: Int Perspectives</td>
</tr>
<tr>
<td>MUS 313</td>
<td>The History of Music I</td>
</tr>
<tr>
<td>MUS 314</td>
<td>The History of Music II</td>
</tr>
<tr>
<td>Performance Studies</td>
<td>4</td>
</tr>
<tr>
<td>MUS 172</td>
<td>Group Instruct in Piano Music Majors I</td>
</tr>
<tr>
<td>MUS 173</td>
<td>Group Instruct in Piano Music Majors II</td>
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</tbody>
</table>

**CS + Music Core** *(Coursework)*

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 105</td>
<td>Computation and Music I</td>
<td>2</td>
<td>MUS 105</td>
</tr>
<tr>
<td>MUS 205</td>
<td>Computation and Music II</td>
<td>2</td>
<td>MUS 205</td>
</tr>
<tr>
<td>MUS 299</td>
<td>Thesis/Adv UG Honors in Music</td>
<td>1 or 2</td>
<td>MUS 299</td>
</tr>
<tr>
<td>MUS 404</td>
<td>Contemporary Compositional Techniques</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUS 408</td>
<td>Computer Music</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUS 407</td>
<td>Electronic Music Techniques I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUS 409</td>
<td>Electronic Music Techniques II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
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</tr>
<tr>
<td></td>
<td>2*</td>
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</tbody>
</table>

**CS + Music Studies**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 305</td>
<td>Computation and Music III</td>
</tr>
<tr>
<td>MUS 307</td>
<td>Electronic Music Techniques I</td>
</tr>
<tr>
<td>MUS 309</td>
<td>Electronic Music Techniques II</td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
</tr>
<tr>
<td>CS 222</td>
<td>Software Design Lab</td>
</tr>
</tbody>
</table>
### CS + Music Footnotes (current)

1. Six hours of general education requirements in the Humanities and the Arts are met by courses required in the BMUS degree (MUS 313 and MUS 314).

2. Completion of both CS 125 and CS 225 meets the general education requirement for Quantitative Reasoning I and Quantitative Reasoning II.

3. All students must demonstrate keyboard competency by examination when they matriculate or by enrolling in MUS 172 and/or MUS 173.

4. Completion of both MUS 313 and MUS 314 meets the general education Humanities and the Arts requirement.

5. Students who are more interested in systems building can substitute CS 427 (Software Engineering I) for CS 361.

6. Students must take the ALEKS placement exam for course entry.

### CS + Music Footnotes (revised)

1. Completion of both MUS 313 and MUS 314 meets the general education Humanities and the Arts requirement.

2. Completion of both CS 124 and CS 128 meets the general education requirement for Quantitative Reasoning I and Quantitative Reasoning II.

3. The Language requirement may be satisfied by successfully completing a third-semester college-level course in a language other than English; successful completion, in high school, of the third year of a language other than English; or demonstrating proficiency at the third-semester level in a language proficiency examination approved by the College of Liberal Arts and Sciences and the appropriate department.

4. All students must demonstrate keyboard competency when they audition, by examination when they matriculate, or by enrolling in MUS 172 and/or MUS 173.

5. Students who are more interested in systems building can substitute CS 427 (Software Engineering I) for CS 361.

6. Students must take the ALEKS placement exam for course entry.
Curriculum Flow Chart for Computer Science + Music

Semester 1
- CS 124
- MATH 220 or 221
- FAA 101
- MUS 100
- MUS 101/107
- MUS 172

Semester 2
- CS 128
- CS 173
- MATH 231
- MUS 105
- MUS 102/108
- MUS 110
- MUS 173

Semester 3
- CS 225
- CS 222
- MATH 257 or 225
- MUS 205
- MUS 201/207
- MUS 313
- MUS 314

Semester 4
- CS 233
- CS 340
- CS 361 or CS 427*
- MUS 305
- MUS 202/208
- OR
- CS 341
- CS tech**
- CS 448
- MUS 407*
- MUS 409
- MUS 299*

Semester 5
- CS 374
- CS tech**
- ECE 402

Semester 6
- CS 421

Semesters 7 and 8
- CS 421
- CS tech**
- MUS 299*

Follow the College of FAA General Education & Language Requirements.

A line from one course to another indicates that the first course is a prerequisite for the second, concurrent enrollment acceptable where there are straight arrows; curved arrows indicate courses can be taken in either order but should not be taken together.

*See course explorer for course prerequisites: https://courses.illinois.edu/

**CS tech must be 400-level CS above CS 403, excluding CS 421 and CS 491.

Consult with Music Advisor for electives.
**Curriculum Plan: Computer Science + Music Beginning Fall 2021**

### General Education Requirements
- **FAA 101**  
- **MUS 100**

#### Cultural Studies
- Composition I
- Advanced Composition
- 3hrs Humanities and the Arts*
- 3hrs Humanities and the Arts*
- 3hrs Social Behavioral Science
- 3hrs Social Behavioral Science
- 3hrs Nat Sciences & Technology
- 3hrs Nat Sciences & Technology

#### Math Courses
- MATH 220 5hrs, Calc or MATH 221 4hrs, Calc I
- MATH 231 3hrs, Calc II
- MATH 257 3hrs, Lin Alg w/Comp. Apps. or MATH 225 2hrs, Into Matrix Theory

#### Computer Science Courses
- CS 100 1hr, Fresh Orientation (Recommended)
- CS 124 3hrs, Intro to Computer Science I
- CS 128* 3hrs, Intro to Computer Science II
- CS 173** 3hrs, Discrete Structures
- CS 222* 1hr, Software Design Lab
- CS 225** 4hrs, Data Structures
- CS 340 3hrs, Intro to Computer Systems**
- CS tech*** 3hrs, 400-level CS Elective
- CS tech*** 3hrs, 400-level CS Elective
- CS 233 4hrs, Computer Architecture**
- CS 341 4hrs, Systems Programming**
- CS 361** 3hrs, Probability and Statistics for CS or CS 427** 3hrs, Software Engineering I
- CS 374** 4hrs, Algorithms & Models of Comp
- CS 421** 3hrs, Programming Languages and Compilers
- CS 448* 3hrs, Audio Computing Laboratory
- ECE 402* 3hrs, Electronic Music Synthesis

#### Music Theory & Musicianship
- MUS 101 2hrs, Music Theory and Practice I
- MUS 102* 2hrs, Music Theory and Practice II
- MUS 201* 2hrs, Music Theory and Practice III
- MUS 202* 2hrs, Music Theory and Practice IV
- MUS 107 2hrs, Musicianship I
- MUS 108* 2hrs, Musicianship II
- MUS 207* 2hrs, Musicianship III
- MUS 208* 2hrs, Musicianship IV

#### Musicology
- MUS 110 3hrs, Intrd Art Mus: Intl Perspect
- MUS 313* 3hrs, The History of Music I (HUM)
- MUS 314* 3hrs, The History of Music II (HUM)

#### Keyboard
- MUS 172 2hrs, Grp Instr Piano for Mus Major I
- MUS 173* 2hrs, Grp Instr Piano for Mus Major II

#### CS + Music Studies
- MUS 105* 2hrs, Computation and Music I
- MUS 205* 2hrs, Computation and Music II
- MUS 305* 3hrs, Computation and Music III
- MUS 407* 3hrs, Elect Music Techniques I
- MUS 409* 2hrs, Elec Music Techniques II
- MUS 299* 1-2hrs, Thesis/Adv UG Honors in Music

*Has prerequisites and/or co-requisite; See Course Explorer

**Has prerequisites and/or co-requisite; See Course Explorer & if you have earned credit for CS 225, see a CS advisor

***400 level above CS 403, excluding CS 421 and CS 491. These two courses must be distinct from all other courses used to fulfill program requirements or options.

---

**It is recommended that you work in concert with your assigned academic advisor to ensure you are on track to successfully complete your degree.**

- 120 hours required for graduation
- 60 hours required for residency

**Additional Notes**

To meet a course’s prerequisites you will need to have earned the listed prerequisite credit or be on path to earn the prerequisite credit before the course begins.

Some courses are offered fall-only or spring-only. Be sure to plan ahead!

Working ahead in your CS coursework does not guarantee entrance into the next CS course.

*Has prerequisites and/or co-requisite; See Course Explorer
Program Change Request

Date Submitted: 01/21/22 10:22 am

Viewing: **10KV0464BSLA : Statistics & Computer Science, BSLAS**

Last approved: 05/11/21 3:22 pm
Last edit: 01/27/22 3:22 pm
Changes proposed by: Amy Elli

Catalog Pages
Using this Program

---

Proposal Type:

---

Statistics & Computer Science, BSLAS

---

In Workflow

1. U Program Review
2. 1583 Head
3. 1434 Head
4. KP Committee Chair
5. KP Dean
6. KV Dean
7. University Librarian
8. Provost
9. Senate EPC
10. Senate
11. U Senate Conf
12. Board of Trustees
13. IBHE
14. HLC
15. DMI

---

Approval Path

1. 01/25/22 3:18 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/25/22 5:59 pm
   Bo Li (libo):
   Approved for 1583 Head
3. 01/25/22 7:18 pm
   Elsa Gunter (egunter):
   Approved for 1434 Head
4. 01/26/22 5:56 am
   Brooke Newell (bsnewell):
   Approved for KP Committee Chair
5. 01/26/22 7:50 am
   Candy Deaville (candyd):
Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Statistics &amp; Computer Science, BSLAS</th>
</tr>
</thead>
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<tr>
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<td>Liberal Arts &amp; Sciences</td>
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<tr>
<td>Sponsor Department</td>
<td>Statistics</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>David Unger, Director of Undergraduate Programs, Department of Statistics</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:dunger@illinois.edu">dunger@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Stephen R. Downie, Kelly Ritter</td>
</tr>
</tbody>
</table>
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.

Stephen Herzog

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
Grainger College of Engineering

Department
Computer Science

Is there an additional department involved in governance?
No

Proposal Title

Effective Catalog
Fall 2022

Term

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

Administrative approval to revise the BSLAS in Statistics & Computer Science.

Curricula update to Statistics + Computer Science, BSLAS

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

Yes

Required courses
MATH 257 - Linear Algebra w Computat Appl

Explain how the inclusion or removal of the courses/subjects listed above impacts the offering departments.
N/A

Attach letters of support or acknowledgement from other departments.

Program Regulation and Assessment
Computer Science: In order to track student progress in achieving the student outcomes of the CS component of the Stat&CS program, the Department of Computer Science has identified a set of “core courses” that ensure student outcomes are being reached. These include the following courses that all students must take: CS 124, CS 128, CS 173, CS 225, CS 222, One of 240 or (CS 233 and CS 357, CS 374, and CS 421. The Department of Computer Science tracks, on a rolling three year basis, the student attainment of the Learning Objectives of these core courses and assesses their contributions to the Student Outcomes used for all students in CS courses.

Statistics: We will continue to monitor Student Learning Outcomes for this program as outlined in our Assessment Plan filed with the Provost’s Office. In fact, this proposal is an outcome of that effort. Through student performance, student and industry survey, and evaluation of emerging trends in our field, the proposed revisions address opportunities to improve student learning with our BS Statistics program.

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
Please put this text on the degree requirements tab right above the grid:

**Departmental distinction:** To graduate with distinction requires a specified minimum grade point average in all Computer Science, Statistics, and Mathematics courses listed below. A GPA of 3.25 is required for Distinction, 3.5 for High Distinction, and 3.75 for Highest Distinction.

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

**Minimum required major and supporting course work:** Normally equates to 68-72 hours. At least 12 hours of 300- and 400-level courses must be taken on this campus.

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

Statement for Programs of Study Catalog

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mathematical Foundation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 100</td>
<td>Freshman Orientation (recommended)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Calculus through MATH 241:</strong> Calculus III</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 415</td>
<td>Applied Linear Algebra</td>
<td></td>
</tr>
<tr>
<td><strong>Computer Science Foundation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 222</td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>CS 225</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>Choose one of the following combinations:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8-11</td>
</tr>
<tr>
<td>CS 233 &amp; CS 341</td>
<td>Computer Architecture and System Programming</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 240</td>
<td>Course CS 240 Not Found</td>
<td></td>
</tr>
<tr>
<td>CS 340</td>
<td>Introduction to Computer Systems</td>
<td></td>
</tr>
<tr>
<td>&amp; two CS courses at the 400 level above CS 403, excluding CS 421 and CS 491. These two courses must be distinct from all other courses used to fulfill program requirements or options.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 357</td>
<td>Numerical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CS 374</td>
<td>Introduction to Algorithms &amp; Models of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 421</td>
<td>Programming Languages &amp; Compilers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Probability and Statistics Foundation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 107</td>
<td>Data Science Discovery</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>STAT 212</td>
<td>Biostatistics</td>
<td></td>
</tr>
</tbody>
</table>
### Program Features

<table>
<thead>
<tr>
<th>Academic Level</th>
<th>Undergraduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does this major have transcripted concentrations?</td>
<td>No</td>
</tr>
<tr>
<td>What is the typical time to completion of this program?</td>
<td>4 years</td>
</tr>
<tr>
<td>What are the minimum Total Credit Hours required for this program?</td>
<td>120</td>
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<tr>
<td>CIP Code</td>
<td>270599 - Statistics, Other.</td>
</tr>
</tbody>
</table>

### BSLS Bachelor of Science in Liberal Arts and Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 400</td>
<td>Statistics and Probability I</td>
<td>4</td>
</tr>
<tr>
<td>STAT 410</td>
<td>Statistics and Probability II</td>
<td>3 or 4</td>
</tr>
<tr>
<td>STAT 425</td>
<td>Statistical Modeling I</td>
<td>3 or 4</td>
</tr>
<tr>
<td>STAT 426</td>
<td>Statistical Modeling II</td>
<td>3 or 4</td>
</tr>
</tbody>
</table>

Statistical Application Electives -Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 428</td>
<td>Statistical Computing</td>
</tr>
<tr>
<td>STAT 431</td>
<td>Applied Bayesian Analysis</td>
</tr>
<tr>
<td>STAT 432</td>
<td>Basics of Statistical Learning</td>
</tr>
<tr>
<td>STAT 434</td>
<td>Survival Analysis</td>
</tr>
<tr>
<td>STAT 448</td>
<td>Advanced Data Analysis</td>
</tr>
</tbody>
</table>

Computational Application Elective - Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 410</td>
<td>Text Information Systems</td>
</tr>
<tr>
<td>CS 411</td>
<td>Database Systems</td>
</tr>
<tr>
<td>CS 412</td>
<td>Introduction to Data Mining</td>
</tr>
<tr>
<td>CS 446</td>
<td>Machine Learning</td>
</tr>
<tr>
<td>CS 481</td>
<td>Advanced Topics in Stochastic Processes &amp; Applications</td>
</tr>
<tr>
<td>CS 482</td>
<td>Simulation</td>
</tr>
</tbody>
</table>

Total Hours: 68-72

Departmental distinction: To graduate with distinction requires a specified minimum grade point average in all Computer Science, Statistics, and Mathematics courses listed below. A GPA of 3.25 is required for Distinction, 3.5 for High Distinction, and 3.75 for Highest Distinction. General education: Students must complete the Campus General Education requirements including the campus general education language requirement. Minimum required major and supporting course work: Normally equates to 68-72 hours. At least 12 hours of 300- and 400-level courses must be taken on this campus. Minimum hours required for graduation: 120 hours.
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**

<table>
<thead>
<tr>
<th>Desired Effective</th>
<th>Fall 2022 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions Term</td>
<td></td>
</tr>
</tbody>
</table>

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.

No proposed changes to Admission Requirements

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

First-Year student (i.e., "freshman") admissions are primarily determined by the College of Liberal Arts & Sciences (LAS) and Office of Undergraduate Admissions (OUA). There is some input from our department but Computer Science provides most of the guidance to balance our enrollment with fellow programs in Computer Science (ENG), Mathematics & Computer Science (LAS), and the CS+X majors. Students who wish to transfer into Stat&CS must successfully complete a series of introductory courses in both departments prior to submitting an application portfolio which includes essay writing.

Our departments share in the responsibility of mentoring and advising students in Stat&CS. Readiness for entering the program, continued progress in the major, and preparation for post-baccalaureate opportunities (such as graduate school or employment) are monitored by a team of full-time academic and career advisors, faculty, and program directors within our two Departments.

**Enrollment**

Describe how this revision will impact enrollment and degrees awarded.

No impact to unit.

<table>
<thead>
<tr>
<th>Estimated Annual Number of Degrees Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year One Estimate</td>
</tr>
</tbody>
</table>

What is the matriculation
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.

No impact to unit. Computer Science: This revision constitutes a redistribution of existing instructional resources but should not cause a significant change in applicable personnel, technology, and supply costs. Allowing CS 128 to be taken by non-majors, as well as majors, will increase the enrollment over and above that of CS 126 and CS 242 and may have a small impact on scheduling (requiring a larger classroom or additional lectures) but this will be partially offset by eliminating redundancies (e.g., the need to teach both CS 126 and CS 242). The need for additional Teaching Assistants in CS 128 in contrast to CS 126 and CS 242 combined, due to outside enrollment now being allowed, will be offset by the revenue generated by the additional income for the additional IUs. Statistics: This is a revision of an existing degree program, and for the most part involves only a shift in enrollments of courses currently offered within Statistics. In particular, we will have to increase the availability of the now-required STAT 426, but that is offset by the relocation of STAT 428 from required to elective.

Financial Resources

How does the unit intend to financially support this proposal? There is no impact on the already existing arrangements that support the Stat&CS program financially. This is a revision of an existing degree program, and for the most part involves only a shift in enrollments of courses taken within the units already.

Will the unit need to seek campus or other external resources? No

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.22.082
This proposal requires HLC inquiry.

DMI Documentation

Banner/Codebook Name: BSLAS:Stats & Comp Sci -UIUC

Program Code: 10KV0464BSLA

Minor Code: 0464

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) (01/27/22 9:49 am): Administrative approval: Does not change total hours; doesn't restrict student choice.
Program Change Request

Date Submitted: 01/19/22 9:45 am

Viewing: **10KV1438BSLA : Mathematics & Computer Science, BSLAS**

Last approved: 05/12/21 2:15 pm

Last edit: 01/27/22 3:22 pm

Changes proposed by: Beth McKown

Catalog Pages
Using this Program

**Mathematics & Computer Science, BSLAS**

Proposal Type:

In Workflow

1. **U Program Review**
2. **1257 Head**
3. **1434 Head**
4. **KP Committee Chair**
5. **KP Dean**
6. **KV Dean**
7. **University Librarian**
8. **Provost**
9. **Senate EPC**
10. Senate
11. **U Senate Conf**
12. Board of Trustees
13. **IBHE**
14. **HLC**
15. **DMI**

Approval Path

1. 01/19/22 4:24 pm Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/23/22 6:15 pm Vera Hur (verahur):
   Approved for 1257 Head
3. 01/25/22 7:19 pm Elsa Gunter (egunter):
   Approved for 1434 Head
4. 01/26/22 5:56 am Brooke Newell (bsnewell):
   Approved for KP Committee Chair
5. 01/26/22 7:50 am Candy Deaville
Major (ex. Special Education)

This proposal is
for a:
Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Mathematics &amp; Computer Science, BSLAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Vera Hur, Jeremy Tyson, Professor and Dept Chair Head</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:verahur@illinois.edu">verahur@illinois.edu</a> <a href="mailto:tyson@illinois.edu">tyson@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Stephen R. Downie - BEM Kelly Ritter</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:sdownie@illinois.edu">sdownie@illinois.edu</a> <a href="mailto:ritterk@illinois.edu">ritterk@illinois.edu</a></td>
</tr>
</tbody>
</table>

History

1. Feb 2, 2019 by Deb Forgacs (dforgacs)
2. May 12, 2021 by Amy Ell (amyelli)
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.*

Stephen Herzog

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**  Grainger College of Engineering

**Department**  Computer Science

**Is there an additional department involved in governance?**  No

---

**Proposal Title**

Effective Catalog  Fall 2022

Term

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

Administrative approval to revise the BSLAS in Mathematics & Computer Science.

Curricula Update to Mathematics & Computer Science, BSLAS

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?

CS 241: System Programming has been renumbered to CS 341. CS 240: Introduction to Computer Systems has been renumbered to CS 340. Both are effective Fall 2022. Updating Course Listing to reflect these changes.

---

**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:** Normally equates to
70 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.

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

### Requirements

#### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Freshman Orientation (recommended)</td>
<td>1</td>
</tr>
<tr>
<td>Calculus through MATH 241-Calculus III</td>
<td>11-12</td>
<td></td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 347</td>
<td>Fundamental Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 348</td>
<td>Fundamental Mathematics-ACP</td>
<td></td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 225</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 222</td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>Choose one of the following combinations</td>
<td>8-11</td>
<td></td>
</tr>
<tr>
<td>CS 233</td>
<td>Computer Architecture and System Programming</td>
<td></td>
</tr>
<tr>
<td>&amp; CS 341</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 240</td>
<td><strong>Course CS 240 Not Found</strong></td>
<td></td>
</tr>
<tr>
<td>CS 340</td>
<td>Introduction to Computer Systems</td>
<td></td>
</tr>
<tr>
<td>&amp; two CS courses at the 400 level above CS 403, excluding CS 421 and CS 491. These two courses must be distinct from all other courses used to fulfill program requirements or options.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS/MATH 357</td>
<td>Numerical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CS 374</td>
<td>Introduction to Algorithms &amp; Models of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 421</td>
<td>Programming Languages &amp; Compilers</td>
<td>3</td>
</tr>
<tr>
<td>CS 450</td>
<td>Numerical Analysis</td>
<td>3 or 4</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Applied Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 416</td>
<td>Abstract Linear Algebra</td>
<td></td>
</tr>
</tbody>
</table>

**400-level mathematics and computer science requirements:** 18

Students must select at least six 400-level mathematics and computer science courses, including one from each of the following groups:

**GROUP I**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 361</td>
<td>Probability &amp; Statistics for Computer Science (recommended)</td>
<td></td>
</tr>
<tr>
<td>MATH 461</td>
<td>Probability Theory</td>
<td></td>
</tr>
<tr>
<td>STAT 400/MATH 463</td>
<td>Statistics and Probability I</td>
<td></td>
</tr>
</tbody>
</table>

**GROUP II**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 412</td>
<td>Graph Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 413</td>
<td>Intro to Combinatorics</td>
<td></td>
</tr>
<tr>
<td>MATH 417</td>
<td>Intro to Abstract Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 427</td>
<td>Honors Abstract Algebra</td>
<td></td>
</tr>
</tbody>
</table>

**GROUP III**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 441</td>
<td>Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 446</td>
<td>Applied Complex Variables</td>
<td></td>
</tr>
<tr>
<td>MATH 484</td>
<td>Nonlinear Programming</td>
<td></td>
</tr>
</tbody>
</table>
Corresponding Degree
BSLAS Bachelor of Science 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


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 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.

N/A

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

N/A

Enrollment

Describe how this revision will impact enrollment and degrees awarded.

No impact to unit.

Estimated Annual Number of Degrees Awarded

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

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. No impact.

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
This proposal requires HLC inquiry: No

**DMI Documentation**

<table>
<thead>
<tr>
<th>Attach Final Approval Notices</th>
<th>BSLAS:Math&amp;Computer Sci -UIUC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banner/Codebook Name</td>
<td></td>
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<tr>
<td>Program Code:</td>
<td>10KV1438BSLA</td>
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<table>
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<tr>
<th>Minor Code</th>
<th>Conc Code</th>
<th>Degree Code</th>
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</thead>
<tbody>
<tr>
<td>1438</td>
<td>1438</td>
<td>BSLAS</td>
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</table>

| Senate Approval Date        |            |
| Senate Conference Approval Date |          |
| BOT Approval Date           |            |
| IBHE Approval Date          |            |
| HLC Approval Date           |            |

Effective Date: 

Attached Document

**Justification for this request**

Administrative approval: No change to total hours required; does not restrict student choice.

Program Reviewer Comments: Kathy Martensen (kmartens) (01/27/22 9:52 am)
Program Change Request

Date Submitted: 01/18/22 3:56 pm

Viewing: 10KV5349BSLA : Computer Science + Astronomy, BSLAS

Last approved: 05/11/21 12:06 pm
Last edit: 01/27/22 3:24 pm
Changes proposed by: Beth McKown

Catalog Pages
Using this Program

Proposal Type:

Computer Science + Astronomy, BSLAS

Approval Path
1. 01/19/22 4:25 pm
   Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/20/22 9:24 am
   Leslie Looney (lwl): Approved for 1430 Head
3. 01/20/22 10:19 am
   Elsa Gunter (egunter): Approved for 1434 Head
4. 01/21/22 2:07 pm
   Brooke Newell (bsnewell): Approved for KP Committee Chair
5. 01/21/22 2:11 pm
   Candy Deaville (cdeaville)
Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

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<td>Astronomy</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Leslie Looney  Tony Wong</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:lwl@illinois.edu">lwl@illinois.edu</a>  <a href="mailto:womgt@illinois.edu">womgt@illinois.edu</a></td>
</tr>
</tbody>
</table>
College Contact  
Stephen R. Downie - BEM Kelly Ritter  
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.*  
Stephen Herzog  

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  
Grainger College of Engineering  
Department  
Computer Science  
Is there an additional department involved in governance?  
No  

Proposal Title  
Effective Catalog  
Fall 2022  
Term  

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

Administrative approval to revise the BSLAS in Computer Science + Astronomy  
Curricula update to the Computer Science + Astronomy, BSLAS  

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 Computer Science Department renumbered two courses that are in the curricula without any change to the content effective Fall 2022.

The courses are CS 241: System Programming – renumbered to CS 341.

Updating course options for the curricula.

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.
**General education:** Students must complete the [Campus General Education](#) requirements including the campus general education language requirement.

**Minimum required major and supporting course work:** Normally equates to 68-71 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.

A Major Plan of Study form must be completed and submitted to the LAS Student Affairs office by the beginning of the fifth semester (60-75 hours). Please see the Computer Science advisor as well as the Astronomy advisor.

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

### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
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<tr>
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<td>Freshman Orientation (recommended; <strong>CS 100</strong> is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.)</td>
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<td>Calculus II</td>
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</tr>
<tr>
<td><strong>Required Astronomy Coursework - Minimum of 27 Hours</strong></td>
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<td>Physics, Mathematics, and Astronomy Foundations</td>
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<tr>
<td><strong>PHYS 211</strong></td>
<td>University Physics: Mechanics</td>
<td>4</td>
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</tbody>
</table>
**Corresponding Degree**
BSLAS Bachelor of Science 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**
110199 - Computer and Information Sciences, Other.

**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 2024

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.

N/A

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

N/A

Enrollment

Describe how this revision will impact enrollment and degrees awarded.

No impact to unit.

Estimated Annual Number of Degrees Awarded

<table>
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<th>Year One Estimate</th>
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<td></td>
</tr>
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</table>

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 financial impact is anticipated.

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

No

Attach letters of
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.
This proposal requires HLC inquiry: No

Program Code: 10KV5349BSLA

Senate Approval Date
Senate Conference Approval Date
BOT Approval Date
IBHE Approval Date
HLC Approval Date
Effective Date:

Attached Document

Justification for this request: Kathy Martensen (kmartens) (01/27/22 9:53 am): Administrative approval: No change to total hours required; does not restrict student choice.
Program Change Request

Date Submitted: 01/18/22 4:07 pm

Viewing: 10KV5350BSLA : Computer Science + Chemistry, BSLAS

Last approved: 05/11/21 3:23 pm
Last edit: 01/27/22 3:25 pm
Changes proposed by: Beth McKown

Catalog Pages
Using this Program

Proposal Type:

Computer Science + Chemistry, BSLAS

In Workflow
1. U Program Review
2. 1413 Head
3. 1434 Head
4. KP Committee Chair
5. KP Dean
6. SOCS Head
7. KV Dean
8. University Librarian
9. Provost
10. Senate EPC
11. Senate
12. U Senate Conf
13. Board of Trustees
14. IBHE
15. HLC
16. DMI

Approval Path
1. 01/19/22 4:25 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/19/22 4:26 pm
   Scott Silverman (sks): Approved for 1413 Head
3. 01/19/22 7:25 pm
   Elsa Gunter (egunter):
   Approved for 1434 Head
4. 01/21/22 2:07 pm
   Brooke Newell (bsnewell):
   Approved for KP Committee Chair
5. 01/21/22 2:11 pm
   Candy Deaville
Major (ex. Special Education)

This proposal is for a:
   Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Computer Science + Chemistry, BSLAS</th>
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<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Chemistry</td>
</tr>
</tbody>
</table>

History

1. Feb 22, 2019 by Deb Forgacs (dforgacs)
2. Aug 26, 2019 by Amy Ell (amyelli)
3. May 11, 2021 by Amy Ell (amyelli)
Sponsor Name: Scott Silverman, Professor Dept of Chemistry
Sponsor Email: sks@illinois.edu

College Contact: Stephen Downie - BEM, 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.

Stephen Herzog

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: Grainger College of Engineering
Department: Computer Science

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 BSLAS in CS + Chemistry.

Curricula update to the Computer Science + Chemistry, BSLAS

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 Computer Science Department renumbered two courses that are in curricula without any change to the content effective Fall 2022.

The courses are CS 241: System Programming – renumbered to CS 341.

Updating course options for the curricula.

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.
**General education:** Students must complete the [Campus General Education](#) requirements including the campus general education language requirement.

**Minimum required major and supporting course work:** Normally equates to 66 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.

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

### Course List

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</tr>
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<td><strong>Required Chemistry Coursework - Minimum of 24 hours</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foundation Courses- 12 hours required</td>
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</tr>
<tr>
<td>Select one of the following (General or Accelerated Chemistry):</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>
Corresponding Degree
BSLAS Bachelor of Science 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 110199 - Computer and Information Sciences, Other.

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

Enrollment
Describe how this revision will impact enrollment and degrees awarded.
No impact to unit.

Estimated Annual Number of Degrees Awarded

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<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
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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
Financial Resources

How does the unit intend to financially support this proposal?

N/A

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.22.082

Attach Rollback/Approval Notices
This proposal requires HLC inquiry

No

DMI Documentation

Attach Final Approval Notices
Banner/Codebook Name
BSLAS: Comp Sci & Chem-UIUC

Program Code: 10KV5350BSLA

Minor Code
Conc Code
Degree Code
BSLAS Code
Major Code

5350

Senate Approval Date
Senate Conference Approval Date
BOT Approval Date
IBHE Approval Date
HLC Approval Date
Kathy Martensen (kmartens) (01/27/22 9:54 am): Administrative approval: Does not change total hours required; doesn't restrict student choice.
Program Change Request

Date Submitted: 01/19/22 9:55 am

Viewing: **10KV5351BSLA : Computer Science + Linguistics, BSLAS**

Last approved: 05/12/21 2:54 pm
Last edit: 01/27/22 3:27 pm
Changes proposed by: Beth McKown

Catalog Pages
Using this Program

Proposal Type:

In Workflow
1. U Program Review
2. 1864 Head
3. 1434 Head
4. KP Committee Chair
5. KP Dean
6. SLCL Head
7. KV Dean
8. University Librarian
9. Provost
10. Senate EPC
11. Senate
12. U Senate Conf
13. Board of Trustees
14. IBHE
15. HLC
16. DMI

Approval Path
1. 01/19/22 4:25 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/19/22 6:40 pm
   James Hye Suk Yoon (jyoon):
   Approved for 1864 Head
3. 01/19/22 7:28 pm
   Elsa Gunter (egunter):
   Approved for 1434 Head
4. 01/21/22 2:08 pm
   Brooke Newell (bsnewell):
   Approved for KP Committee Chair
5. 01/21/22 2:11 pm

[Catalog Pages]
[Computer Science + Linguistics, BSLAS]
[Viewing: 10KV5351BSLA : Computer Science + Linguistics, BSLAS]
[Last approved: 05/12/21 2:54 pm]
[Last edit: 01/27/22 3:27 pm]
[Changes proposed by: Beth McKown]
Major (ex. Special Education)

This proposal is for a:

Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Computer Science + Linguistics, BSLAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Linguistics</td>
</tr>
</tbody>
</table>

History

1. Feb 22, 2019 by Deb Forgacs (dforgacs)
2. May 12, 2021 by Amy Ell (amyelli)
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.

Stephen Herzog

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
Grainger College of Engineering

Department
Computer Science

Is there an additional department involved in governance?

No

**Proposal Title**

Effective Catalog  Fall 2022

Term

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

Administrative approval to revise the BSLAS in CS + Linguistics.

Curricula update to Computer Science + Linguistics, BSLAS

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 department of Computer Science renumbered two courses that are in curricula without any change to the content effective Fall 2022. The courses are CS 241: System Programming - renumbered to CS 341.
CS 240: Introduction to Computer Systems - renumbered to CS 340.
Updating course options.

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.
**General education:** Students must complete the [Campus General Education](#) requirements including the campus general education language requirement.

**Minimum required major and supporting course work:** Normally equates to 66 hours. Twelve hours of 300- and 400-level Anthropology courses must be taken on this campus.

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

---

### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Computer Science Coursework</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 100</td>
<td>Freshman Orientation (recommended; <strong>CS 100</strong> is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.)</td>
<td>1</td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 225</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 222</td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Choose one of the following combinations</strong></td>
<td></td>
<td>8-11</td>
</tr>
<tr>
<td>CS 233</td>
<td>Computer Architecture</td>
<td></td>
</tr>
<tr>
<td>&amp; CS 341</td>
<td>and System Programming</td>
<td></td>
</tr>
<tr>
<td><strong>OR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 240</td>
<td>Course CS 240 Not Found</td>
<td></td>
</tr>
<tr>
<td>CS 340</td>
<td>Introduction to Computer Systems</td>
<td></td>
</tr>
<tr>
<td>&amp; two CS courses at the 400 level above <strong>CS 403</strong>, excluding <strong>CS 421</strong> and <strong>CS 491</strong>. These two courses must be distinct from all other courses used to fulfill program requirements or options.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Choose one of the following:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>STAT 212</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>CS 361</td>
<td>Probability &amp; Statistics for Computer Science</td>
<td></td>
</tr>
<tr>
<td>CS 374</td>
<td>Introduction to Algorithms &amp; Models of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 421</td>
<td>Programming Languages &amp; Compilers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics (may also fulfill the General Education Quantitative Reasoning I and II requirements)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Calculus I</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 220</td>
<td>Calculus</td>
<td>2 or 3</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Introductory Matrix Theory</td>
<td></td>
</tr>
<tr>
<td>or MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Linguistics Coursework - Minimum of 24 hours</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LING 100</td>
<td>Intro to Language Science</td>
<td>3</td>
</tr>
<tr>
<td>LING 301</td>
<td>Elements of Syntax</td>
<td>3</td>
</tr>
</tbody>
</table>
Corresponding Degree
BSLAS Bachelor of Science 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 110199 - Computer and Information Sciences, Other.

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 2024

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 307</td>
<td>Elmnts Semantics &amp; Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>LING 406</td>
<td>Introduction to Computational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advanced Coursework- select at least three of the following</td>
<td>9</td>
</tr>
<tr>
<td>TRST 415</td>
<td>Machine Translation: History and Applications</td>
<td></td>
</tr>
<tr>
<td>LING 490</td>
<td>Special Topics in Linguistics (Check with advisor for appropriate topics. May be repeated to meet this requirement if topics vary)</td>
<td></td>
</tr>
<tr>
<td>CS 446</td>
<td>Machine Learning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Linguistics Breadth Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any 200-level or higher Linguistics Course (with the exception of ESL and language courses)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>CS 100%7CCode is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.</strong></td>
<td></td>
</tr>
</tbody>
</table>

CS 446
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.

N/A

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

N/A

---

Enrollment

Describe how this revision will impact enrollment and degrees awarded.

No impact to unit.

Estimated Annual Number of Degrees Awarded

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

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

---

Financial Resources

How does the unit intend to financially support this proposal?

no change in support for the major.

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

No

---
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.22.082

Attach Rollback/Approval Notices

This proposal requires HLC inquiry  No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name  BSLAS: Comp Sci & Ling-UIUC

Program Code:  10KV5351BSLA

Minor Code  5351

Conc Code

Degree Code

BSLAS 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) (01/27/22 9:56 am): Administrative approval: Does not change total hours required; doesn't restrict student choice.
Program Change Request

Date Submitted: 01/19/22 10:11 am

Viewing: **10KV5667BSLA : Computer Science & Economics, BSLAS**

Last approved: 05/18/21 4:33 pm

Last edit: 01/27/22 3:28 pm

Changes proposed by: Beth McKown

Proposal Type:

Catalog Pages
Using this Program

Computer Science + Economics, BSLAS

In Workflow

1. U Program Review
2. 1405 Head
3. 1434 Head
4. KP Committee Chair
5. KP Dean
6. KV Dean
7. University Librarian
8. Provost
9. Senate EPC
10. Senate
11. U Senate Conf
12. Board of Trustees
13. IBHE
14. HLC
15. DMI

Approval Path

1. 01/19/22 4:26 pm Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/20/22 9:54 am Lauria Grift (lagrift):
   Approved for 1405 Head
3. 01/20/22 10:20 am Elsa Gunter (egunter):
   Approved for 1434 Head
4. 01/21/22 2:08 pm Brooke Newell (bsnewell):
   Approved for KP Committee Chair
5. 01/21/22 2:11 pm Candy Deaville
Major (ex. Special Education)

This proposal is
for a:
Revision

Administration Details

<table>
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<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Economics</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>George Deltas, Professor and Head</td>
</tr>
<tr>
<td></td>
<td>Jamie Thomas-Ward, Associate Director for UG Study, Economics</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:deltas@illinois.edu">deltas@illinois.edu</a>, <a href="mailto:thomas99@illinois.edu">thomas99@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Stephen R. Downie - BEM, Kelly Ritter</td>
</tr>
<tr>
<td>College Contact Email</td>
<td></td>
</tr>
</tbody>
</table>
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.

Stephen Herzog

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 Grainger College of Engineering

Department Computer Science

Is there an additional department involved in governance?

No

Proposal Title

Effective Catalog Fall 2022

Term

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

Administrative approval to revise the BSLAS in CS + Economics.

Curricula update to Computer Science + Economics, BSLAS

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 department of Computer Science renumbered two courses that are in curricula without any change to content effective Fall 2022. The courses are:
CS 241: System Programming - renumbered to CS 341.
CS 240: Introduction to Computer Systems - renumbered to CS 340.
Updating course options.

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.
**General education:** Students must complete the [Campus General Education](#) requirements including the campus general education language requirement.

**Minimum required major and supporting course work:** Normally equates to 66 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.

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

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td><strong>Required Computer Science Courses:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 100</td>
<td>Freshman Orientation (recommended; CS 100 is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.)</td>
<td>1</td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 225</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 222</td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>Choose one of the following combinations 8-11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 233</td>
<td>Computer Architecture</td>
<td></td>
</tr>
<tr>
<td>&amp; CS 341</td>
<td>and System Programming</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>Course CS 240 Not Found</td>
<td></td>
</tr>
<tr>
<td>CS 240</td>
<td>Introduction to Computer Systems</td>
<td></td>
</tr>
<tr>
<td>CS 340</td>
<td>Introduction to Computer Systems</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following: 3</td>
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<td></td>
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<tr>
<td>ECON 202</td>
<td>Economic Statistics I</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>STAT 212</td>
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</tr>
<tr>
<td>CS 421</td>
<td>Programming Languages &amp; Compilers</td>
<td></td>
</tr>
<tr>
<td>Mathematics (may also fulfill the General Education Quantitative Reasoning I and II requirements): 4-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td></td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>or MATH 225</td>
<td>Introductory Matrix Theory</td>
<td></td>
</tr>
<tr>
<td>or MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>Required Economics Coursework -- minimum 24 hours 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Microeconomic Principles</td>
<td></td>
</tr>
</tbody>
</table>
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 110199 - Computer and Information Sciences, Other.

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 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.

N/A

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

N/A

**Enrollment**

Describe how this revision will impact enrollment and degrees awarded.

No impact to unit.

**Estimated Annual Number of Degrees Awarded**

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

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?  
N/A

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
This proposal requires HLC inquiry

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

BSLAS: Comp Sci & Econ - UIUC

Program Code: 10KV5667BSLA

Minor Code: 5667

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) (01/27/22 9:57 am): Administrative approval: Does not change total hours required; doesn't restrict student choice.
**Program Change Request**

**Date Submitted:** 01/19/22 4:24 pm

**Viewing:** **10KV5679BSLA : Computer Science + Philosophy, BSLAS**

**Last approved:** 05/18/21 4:34 pm

**Last edit:** 01/27/22 3:29 pm

Changes proposed by: Beth McKown

**Proposal Type:**

- [Computer Science + Philosophy, BSLAS](#)

**Catalog Pages**

- Using this Program

**In Workflow**

1. U Program Review
2. 1715 Head
3. 1434 Head
4. KP Committee Chair
5. KP Dean
6. KV Dean
7. University Librarian
8. Provost
9. Senate EPC

**Approval Path**

1. 01/21/22 11:41 am
   Deb Forgacs (dforgacs): Approved for U Program Review
2. 01/21/22 11:49 am
   Kelly Ritter (ritterk): Approved for 1715 Head
3. 01/21/22 11:53 am
   Elsa Gunter (egunter): Approved for 1434 Head
4. 01/21/22 2:10 pm
   Brooke Newell (bsnewell): Approved for KP
Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Computer Science + Philosophy, BSLAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Philosophy</td>
</tr>
</tbody>
</table>
Sponsor Name: Kelly Ritter, Interim Department Head  Kirk Sanders
Sponsor Email: ritterk@illinois.edu  ksanders@illinois.edu
College Contact: Stephen R. Downie – BEM  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.

Stephen Herzog

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: Grainger College of Engineering
Department: Computer Science

Is there an additional department involved in governance?
No

Proposal Title
Effective Catalog  Fall 2022
Term

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

Administrative approval to revise the BSLAS in CS + Philosophy.

Curricula update to Computer Science + Philosophy, BSLAS

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 department of Computer Science renumbered two courses that are in curricula without any change to the content effective Fall 2022. The courses are:
CS 241: System Programming - renumbered to CS 341.
CS 240: Introduction to Computer Systems - renumbered to CS 340.
Updating course options.

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 The proposed revisions do not affect any changes in existing assessment plans or metrics.

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
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:** Normally equates to 71-73 hours. Twelve hours of 300- and 400-level Philosophy courses must be taken on this campus.

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

---

### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Computer Science Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CS 100</strong></td>
<td>Freshman Orientation (recommended; <strong>CS 100</strong> is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.)</td>
<td>1</td>
</tr>
<tr>
<td><strong>CS 124</strong></td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td><strong>CS 128</strong></td>
<td>Introduction to Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td><strong>CS 173</strong></td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td><strong>CS 225</strong></td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td><strong>CS 222</strong></td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Choose one of the following combinations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CS 233</strong></td>
<td>Computer Architecture</td>
<td>8-11</td>
</tr>
<tr>
<td>&amp; <strong>CS 341</strong></td>
<td>and System Programming</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CS 240</strong></td>
<td>Course CS 240 Not Found</td>
<td></td>
</tr>
<tr>
<td><strong>CS 340</strong></td>
<td>Introduction to Computer Systems</td>
<td></td>
</tr>
<tr>
<td>&amp; two CS courses at the 400 level above <strong>CS 403</strong>, excluding <strong>CS 421</strong> and <strong>CS 491</strong>. These two courses must be distinct from all other courses used to fulfill program requirements or options.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Choose one of the following:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>STAT 200</strong></td>
<td>Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td><strong>STAT 212</strong></td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td><strong>CS 361</strong></td>
<td>Probability &amp; Statistics for Computer Science</td>
<td></td>
</tr>
<tr>
<td><strong>CS 374</strong></td>
<td>Introduction to Algorithms &amp; Models of Computation</td>
<td>4</td>
</tr>
<tr>
<td><strong>CS 421</strong></td>
<td>Programming Languages &amp; Compilers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics (may also fulfill the General Education Quantitative Reasoning I and II requirements)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MATH 220</strong></td>
<td>Calculus</td>
<td>4-5</td>
</tr>
<tr>
<td>or <strong>MATH 221</strong></td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Hours</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Introductory Matrix Theory</td>
<td>2 or</td>
</tr>
<tr>
<td>or MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Philosophy coursework**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 222</td>
<td>Philosophical Foundations of Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 223</td>
<td>Minds &amp; Machines</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 421</td>
<td>Ethical Theories</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 426</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 430</td>
<td>Theory of Knowledge</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 425</td>
<td>Philosophy of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 438</td>
<td>Philosophy of Language</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 439</td>
<td>Philosophy of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 477</td>
<td>Philosophy of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 454</td>
<td>Advanced Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 499</td>
<td>Capstone Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

In consultation with an advisor, choose at least 9 additional hours of coursework in philosophy, with at least 6 of those hours being at the 300- or 400-level.

**Total Hours**

68-74

*CS 100 is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.*

---

**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**

110199 - Computer and Information Sciences, Other.

**Is This a Teacher Certification Program?**

No

**Will specialized accreditation be sought for this program?**

No
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
- 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.

- N/A

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

- N/A

### Enrollment

Describe how this revision will impact enrollment and degrees awarded.

- No impact to unit.

**Estimated Annual Number of Degrees Awarded**

<table>
<thead>
<tr>
<th>Year One Estimate</th>
<th>5th Year Estimate (or when fully implemented)</th>
</tr>
</thead>
</table>

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? 

N/A No new financial resources are required for implementation of the proposed changes.

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.22.082

Attachments

Rollback/Approval Notices

This proposal requires HLC inquiry

No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

BSLAS: Comp Sci & Phil - UIUC

Program Code: 10KV5679BSLA

Minor Code

5679

Conc Code

Degree Code

BSLAS Code

Major Code

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date
Kathy Martensen (kmartens) (01/27/22 9:59 am): Administrative approval: Does not change total hours required; doesn't restrict student choice.
Viewing: **1729 : Teacher Education Minor in Mathematics, Grades 9-12**

Last approved: 04/06/19 3:26 pm

Last edit: 01/27/22 3:30 pm

Changes proposed by: Beth McKown

### Catalog Pages
- **Teacher Education Minor in Mathematics, Grades 9-12**

### Proposal Type:
- **Using this**
- **Program**

### Approval Path
1. 01/19/22 4:26 pm
   - Deb Forgacs (dforgacs):
     - Approved for U Program Review
2. 01/23/22 6:11 pm
   - Vera Hur (verahur):
     - Approved for 1257 Head
3. 01/26/22 8:50 am
   - Stephen Downie (sdownie):
     - Approved for KV Dean
4. 01/26/22 8:54 am
   - John Wilkin (jpwilkin):
     - Approved for University Librarian
5. 01/26/22 9:12 am
   - Brenda Clevenger (bmclvngr):
     - Approved for
Minor (ex. European Union Studies)

This proposal is for a:

Revision

Administration Details

<table>
<thead>
<tr>
<th>Official Program Name</th>
<th>Teacher Education Minor in Mathematics, Grades 9-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsor College</td>
<td>Liberal Arts &amp; Sciences</td>
</tr>
<tr>
<td>Sponsor Department</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Sponsor Name</td>
<td>Vera Hur, Professor and Head</td>
</tr>
<tr>
<td>Sponsor Email</td>
<td><a href="mailto:verahur@illinois.edu">verahur@illinois.edu</a></td>
</tr>
<tr>
<td>College Contact</td>
<td>Stephen R. Downie - BEM</td>
</tr>
<tr>
<td>College Contact Email</td>
<td><a href="mailto:sdownie@illinois.edu">sdownie@illinois.edu</a></td>
</tr>
</tbody>
</table>

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.

Randy McCarthy

Does this program have inter-departmental administration?

No

Proposal Title
Program Justification

Why are these changes necessary?

MATH 125 has been deactivated as a course effective Fall 2022. There is not a replacement course option at this time. Removing from course options.

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 to unit.

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 sponsoring 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Intro to Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 402</td>
<td>Non Euclidean Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 403</td>
<td>Euclidean Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

At least 7 hours of work from at least two of the following areas: 7

- Computer Science (one course only)
  - Intro Computing: Engrg & Sci
  - Intro Computing: Non-Tech

Linear Algebra
- Introductory Matrix Theory
- Applied Linear Algebra
- Abstract Linear Algebra

Modern Algebra
- Intro to Combinatorics
- Intro to Abstract Algebra
Program Features

Academic Level Undergraduate

Is this minor?
A Comprehensive study in a single discipline

Is This a Teacher Certification Program?
Yes

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 to unit.

Are there any prerequisites for the proposed minor?
No
Describe how this revision will impact enrollment and degrees awarded.

No impact to unit.

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.22.082

Attach Rollback/Approval Notices

This proposal requires HLC inquiry No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name
Teacher Education in Mathematics

Program Code: 1729

Minor Code 1729 Conc Code
Degree Code
Major Code

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date
Kathy Martensen (kmartens) (01/27/22 10:00 am): Administrative approval: Does not change total hours required; doesn't restrict student choice.