

Program Change Request

APPROVED BY SENATE
03/07/2022

EP.22.099_FINAL
Approved by EP 02/14/2022

Date Submitted: 01/13/22 12:15 pm

Viewing: **10KS0025MS : Engineering Technology and Management for Agricultural Systems, MS ~~Technical Systems Management, MS~~**

Last edit: 02/04/22 9:19 am

Changes proposed by: Heather Crump

[Technical Systems Management, MS](#)

Catalog Pages
Using this
Program

Proposal Type:

In Workflow

1. U Program Review
2. 1741 Committee Chair
3. 1741 Head
4. KL Committee Chair
5. KL Dean
6. University Librarian
7. Grad_College
8. Provost
9. Senate EPC
10. Senate
11. U Senate Conf
12. Board of Trustees
13. IBHE
14. HLC
15. DMI

Approval Path

1. 01/13/22 3:20 pm
Deb Forgacs (dforgacs):
Approved for U Program Review
2. 01/13/22 3:21 pm
Kent Rausch (krausch):
Approved for 1741 Committee Chair
3. 01/13/22 3:25 pm
Ronaldo Maghirang (ronaldom):
Approved for 1741 Head
4. 01/13/22 3:29 pm
Brianna Gregg (bjgray2):
Approved for KL Committee Chair

5. 01/18/22 12:25 pm
Anna Ball (aball):
Approved for KL
Dean
6. 01/18/22 12:27 pm
John Wilkin
(jpwilkin):
Approved for
University
Librarian
7. 02/03/22 2:07 pm
Allison McKinney
(agrindly):
Approved for
Grad_College
8. 02/03/22 4:17 pm
Kathy Martensen
(kmartens):
Approved for
Provost

Major (ex. Special Education)

This proposal is
for a:

[Revision](#)

Administration Details

Official Program Name	Engineering Technology and Management for Agricultural Systems, MS Technical Systems Management, MS	
Sponsor College	Agr, Consumer, & Env Sciences	
Sponsor Department	Agricultural & Biological Engr	
Sponsor Name	Ronaldo Maghirang	
Sponsor Email	ronaldom@illinois.edu	
College Contact	Brianna Gregg	College Contact Email
	bjgray2@illinois.edu	
College Budget Officer		
College Budget Officer Email		

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

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term Fall 2022

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

program name change from Technical Systems Management (TSM) to Engineering Technology and Management for Agricultural Systems (ETMAS)

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

Program Justification

Why are these changes necessary?

Feedback from faculty, staff, students and alumni indicated the Technical Systems Management (TSM) program was in need of revision. In Fall 2019, the Department of Agricultural and Biological Engineering formed a task force to assess needs and propose necessary changes to the program. The task force collected feedback from current faculty and staff along with surveys of current students and alumni who graduated between 1980 and 2019. Proposed changes intend to increase the appeal of the program to a wider audience, making it more accessible to students whose interests align with the program. Feedback strongly indicated the name "Technical Systems Management" was confusing and difficult to explain to prospective students, employers, and a general audience. Based on this feedback, a new, more descriptive name of "Engineering Technology and Management for Agricultural Systems" is proposed. The name of the program of the Bachelor of Science in Technical Systems Management has been approved to change to "Bachelor of Science in Engineering Technology and Management for Agricultural Systems" (B.S. in ETMAS). In a line with the program name change for the Bachelor of Science, it is proposed to change the name of graduate program from Technical Systems Management (TSM) to Engineering Technology and Management for Agricultural Systems (ETMAS).

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).

Obtain subject matter expertise

Identify problems and develop problem-solving abilities / critical thinking

Function effectively on multidisciplinary teams

Demonstrate professional and ethical values

Communicate effectively in written and oral forms

Engage in life-long learning skills

Develop leadership and interpersonal skills

Analyze and interpret data

Understand social and cultural contexts

Develop global perspective
11. Carry out independent research with expertise in research design, methods, and analysis

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

Code	Title	Hours
TSM 599	Course TSM 599 Not Found	8
TSM 594	Course TSM 594 Not Found (Registration of 0 hours required for every term while in residence)	0
<u>ETMA 599</u>	<u>Thesis Research</u>	<u>8</u>
<u>ETMA 594</u>	<u>Graduate Seminar (Registration of 0 hours required for every term while in residence)</u>	<u>0</u>
	One course in statistics from an approved list	3-5
	One course in research methods including experimental design in consultation with advisor	3-5
	One 500-level elective course chosen in consultation with advisor	3-5
	Elective courses – chosen in consultation with advisor (subject to Other Requirements and Conditions below)	8-16
	<u>Total Hours</u>	<u>32</u>

Other Requirements and Conditions ±

±

For additional details and requirements refer to the department's Graduate Handbook and the Graduate College Handbook.

Grad Other Degree Requirements

Requirement	Description
Other Requirements and Conditions may overlap	
A minimum of 12 500-level credit hours applied toward the degree, and 8 of those must be in the TSM rubric (including research credit hours).	
Minimum GPA:	2.75

Non-Thesis Option

Course List

Code	Title	Hours
TSM 594	Course TSM 594 Not Found (registration for 0 hours every term while in residence for thesis and non-thesis options; every fall term in residence for the PSM concentration)	0
<u>ETMA 594</u>	<u>Graduate Seminar (registration for 0 hours every term while in residence for thesis and non-thesis options; every fall term in residence for the PSM concentration)</u>	<u>0</u>
	One course in statistics from an approved list	3-5
	One course in research methods including experimental design in consultation with advisor	3-5
	One 500-level elective course chosen in consultation with advisor	3-5
	Elective courses – chosen in consultation with advisor (subject to Other Requirements and Conditions below)	19-27
	Total Hours	36

Other Requirements and Conditions ±

±

For additional details and requirements refer to the department's Graduate Handbook and the Graduate College Handbook.

Grad Other Degree Requirements

Requirement	Description

Requirement

Description

Other Requirements and Conditions may overlap

A minimum of 12 500-level credit hours applied toward the degree, and 8 of those must be in the TSM rubric.

The non-thesis option is only allowed with departmental approval at or before initiation of graduate study, and a final report is required.

Minimum GPA:

2.75

Corresponding
Degree

MS Master of Science

Program Features

Academic Level Graduate

Does this major
have transcribed
concentrations?

No

What is the typical time to completion of this program?

Fall 2022

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

32

What is the
required GPA?

2.75

CIP Code 140301 - Agricultural Engineering.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is
available:

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

Admission Requirements

Desired Effective
Admissions Term

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.

requesting program name update - TSM to ETMAS

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

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.

requesting program name update - TSM to ETMAS

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.

requesting program name update - TSM to ETMAS

EP Documentation

EP Control Number EP.22.099

Attach Rollback/Approval Notices

This proposal requires HLC inquiry No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name MS: Tech Sys Mgmt - UIUC

Program Code: 10KS0025MS

Minor Code	Conc Code	Degree Code	Major Code
0025			

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date

Effective Date:

Attached Document Justification for this request

Program Reviewer Comments **Deb Forgacs (dforgacs) (12/16/21 9:19 am):** Rollback: update TSM courses.

