

ADDENDUM TO AGENDA
UNIVERSITY COMMITTEE ON COURSES AND CURRICULA
September 18, 2015

1. Welcome
2. Approval of Minutes
3. Course proposals by college/school
4. Degree proposals by college/school

EDUCATION

Modification	BS	Information Technology Services (Campus 1)
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ENGINEERING

Modification	MS	Engineering/Computer Science (Campus 1 and Campus 5)
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APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Education

Department: Instructional Systems & Workforce Dev.

Contact Person: Sang Joon Lee/Kun Huang

Mail Stop: 9730

E-mail: slee@colled.msstate.edu

Nature of Change: Modification

Date: 3/18/2015

Program will be offered at: Starkville (Campus 1)

Current Degree Program Name: Bachelor of Science

Effective Date: Upon Approval

Major: Information Technology Services **Concentration:** None

New Degree Program Name: Bachelor of Science

Major: Information Technology Services **Concentration:** None

Summary of Proposed Changes:

Please see the attachment.

Cornie M. Forde

Department Head

4/28/2015

Rebecca Richman-Davis

Chair, College or School Curriculum Committee

9-10-2015

A. Bohm

Dean of College or School

9/10/15

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

SACS Letter Sent

Summary of Proposed Changes

Major: Information Technology Services (ITS)

- 1) Modify the general education requirements:
 - a. Revising the Social/Behavioral Science: From the listed PSY 1013 General Psychology & PS 1113 American Government to *"See General Education Requirement"*
 - b. Revising the Humanities core requirement: From U.S. or World History and Literature to *"See General Education Requirement"*
 - c. Adding one more Oral Communication requirement: *CO 1013 Introduction to Communication*

- 2) Remove the following courses:
 - a. *TKB 1312 Information Resource Management*
 - b. *TKB 1123 Document Formatting/Information Processing*

- 3) Modify the following courses:
 - a. *TKB 2122 Introduction to Database Management*
 - b. *TKB 2132 Introduction to Spreadsheet Design and Analysis*
 - c. *TKB 4543 Advanced Information Processing*
 - d. *TKT 4753 Presenting with Media*

- 4) Add the following course:
 - a. *TKT 4203 Emerging Technologies*

Proposal to Modify **Bachelor of Science in Information Technology Services (ITS)**
in Instructional Systems and Workforce Development

1. CATALOG DESCRIPTION

(No modification)

This curriculum is designed to prepare students for the use of computer-based information systems, particularly software applications and hardware and the development and implementation of information technology end user support and information technology project management.

Minor in business administration. By completing the business requirements for the ITS degree, students may be eligible to receive a minor in Business Administration from the College of Business. ITS majors interested in a minor in business administration should contact an academic coordinator in room 106 McCool Hall.

2. CURRICULUM OUTLINE

DEGREE MODIFICATION OUTLINE FORM

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Information Technology Services (ITS) Concentration:		Degree: Bachelor of Science Major: Information Technology Services (ITS) Concentration:	
This curriculum is designed to prepare students for the use of computer-based information systems, particularly software applications and hardware and the development and implementation of information technology end user support and information technology project management. Minor in business administration. By completing the business requirements for the ITS degree, students may be eligible to receive a minor in Business Administration from the College of Business. ITS majors interested in a minor in business administration should contact an academic coordinator in room 106 McCool Hall.		This curriculum is designed to prepare students for the use of computer-based information systems, particularly software applications and hardware and the development and implementation of information technology end user support and information technology project management. Minor in business administration. By completing the business requirements for the ITS degree, students may be eligible to receive a minor in Business Administration from the College of Business. ITS majors interested in a minor in business administration should contact an academic coordinator in room 106 McCool Hall.	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition: English Composition I English Composition II	3 3	English Composition: English Composition I English Composition II	3 3
Mathematics: MA 1313 College Algebra ST 2113 Introduction to Statistics, or BQA 2113 Business Statistical Methods I	3 3	Mathematics: MA 1313 College Algebra ST 2113 Introduction to Statistics, or BQA 2113 Business Statistical Methods I	3 3
Science: Natural Science w/lab – See General Education courses Natural Science w/lab – See General Education courses	3 3	Science: Natural Science w/lab – See General Education courses Natural Science w/lab – See General Education courses	3 3

Math/Science Elective: See General Education courses	3	Math/Science Elective See General Education courses	3
Humanities: <i>US or World History – see General Education courses</i>	3	Humanities: See General Education Requirement	6
<i>Literature – see General Education courses</i>	3		
Fine Arts: See General Education courses	3	Fine Arts See General Education courses	3
Social/Behavioral Sciences: <i>PSY 1013 General Psychology</i>	3	Social/Behavioral Sciences: See General Education Requirement	6
<i>PS 1113 American Government</i>	3		
Oral Communication Requirement: CO 1003 Fundamentals of Public Speaking	3	Oral Communication Requirement: CO 1003 Fundamentals of Public Speaking or CO 1013 Introduction to Communication	3
Computer Literacy Requirement: TKT 1273 Computer Applications (or other approved course)	3	Computer Literacy Requirement: TKT 1273 Computer Applications (or other approved course)	3
Writing Requirement: MGT 3213 Organizational Communications	3	Writing Requirement: MGT 3213 Organizational Communications	3
Minor Core: Business Courses	28	Minor Core: Business Courses	28
ACC 2013 Principles of Financial Accounting	3	ACC 2013 Principles of Financial Accounting	3
ACC 2023 Principles of Managerial Accounting	3	ACC 2023 Principles of Managerial Accounting	3
BL 2413 The Legal Environment of Business	3	BL 2413 The Legal Environment of Business	3
EC 2113 Principles of Macroeconomics	3	EC 2113 Principles of Macroeconomics	3
EC 2123 Principles of Microeconomics	3	EC 2123 Principles of Microeconomics	3
MGT 3114 Principles of Management and Production	4	MGT 3114 Principles of Management and Production	4
MGT 3513 Introduction to Human Resource Management	3	MGT 3513 Introduction to Human Resource Management	3
BIS 1733 Visual Basic Programming	3	BIS 1733 Visual Basic Programming	3
BIS 3233 Management Information Systems	3	BIS 3233 Management Information Systems	3
Major Core: Technology Courses	51	Major Core: Technology Courses	51
<i>TKB 1123 Document Formatting/Information Processing</i>	2	TKB 2123 Database Management	3
<i>TKB 1312 Information Resource Management</i>	2		
<i>TKB 2122 Introduction to Database</i>	2		

<i>Management</i>			
TKB 2132 <i>Introduction to Spreadsheet Design & Analysis</i>	2	TKB 2133 Spreadsheet Design & Analysis	3
TKB 3133 <i>Administrative Management and Procedures</i>	3	TKB 3133 <i>Administrative Management and Procedures</i>	3
TKB 4283 <i>Advanced Office Systems</i>	3	TKB 4283 <i>Advanced Office Systems</i>	3
TKB 4543 <i>Advanced Information Processing</i>	3	TKB 4543 Information Processing	3
TKB 4563 <i>Introduction to Data Networks</i>	3	TKB 4563 <i>Introduction to Data Networks</i>	3
TKB 4583 <i>Graphics and Web Design</i>	3	TKB 4583 <i>Graphics and Web Design</i>	3
TKT 3213 <i>Call Center Management</i>	3	TKT 3213 <i>Call Center Management</i>	3
TKT 3463 <i>Computer Repair and Maintenance</i>	3	TKT 3463 <i>Computer Repair and Maintenance</i>	3
TKT 3623 <i>Design Technology Training</i>	3	TKT 3623 <i>Design Technology Training</i>	3
		TKT 4203 Emerging Technologies	3
TKT 4343 <i>Information Technology Project Management</i>	3	TKT 4343 <i>Information Technology Project Management</i>	3
TKT 4623 <i>Delivery and Evaluation of Technology Training</i>	3	TKT 4623 <i>Delivery and Evaluation of Technology Training</i>	3
TKT 4683 <i>Senior Seminar</i>	3	TKT 4683 <i>Senior Seminar</i>	3
TKT 4743 <i>Electronic Desktop Publishing</i>	3	TKT 4743 <i>Electronic Desktop Publishing</i>	3
TKT 4753 <i>Presenting with Media</i>	3	TKT 4753 Media for Presentations, Instruction and Gaming	3
Approved Elective	3	Approved Elective	3
Total Hours	124	Total Hours	124

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

The main purpose of the proposed degree modification is to strengthen students' foundations and applications of information technology service (ITS), so our students can be more competitive beyond the introduction level. This degree modification is proposed to remove some basic applications courses, such as: *TKB 1312 Information Resource Management; TKB 1123 Document Formatting/Information Processing*, but to provide more coverage and depth of various technology applications, such as: *TKB 4543 Information Processing; TKB 2123 Database Management, TKB 2133 Spreadsheet Design and Analysis* and *TKT 4753 Media for Presentations, Instruction and Gaming*. Also, we propose a new course, *TKT 4203 Emerging Technologies*, from which students will be exposed to the latest emerging technologies in education and workforce. The faculty believes that these changes will greatly enhance the ITS program and allow the graduating students to achieve their career goals in ITS.

Learning outcomes for the program include:

- Students will be able to deliver technology training programs.
- Students will be proficient in written and oral communication.
- Students will demonstrate competency in technology.
- Students will be able to apply ITS content, principles and designs.

4. SUPPORT

Letter of support from graduate program faculty is attached.

5. PROPOSED 4-LETTER ABBREVIATION

No Change

6. EFFECTIVE DATE

Upon approval.



MISSISSIPPI STATE
UNIVERSITY™

DEPARTMENT OF INSTRUCTIONAL SYSTEMS AND WORKFORCE DEVELOPMENT

Box 9730

MISSISSIPPI STATE, MISSISSIPPI 39762-9730

TELEPHONE: 662-325-2281 FAX: 662-325-7599

LETTER OF SUPPORT

DATE: March 18, 2015

TO: Box Council and UCCC Committee Members

FROM: Kun Huang and Sang Joon Lee

RE: *Support of ITS (B.S. in Information Technology Services) Degree Modification*

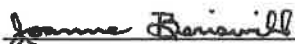





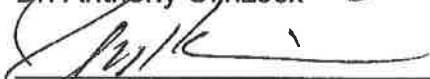
This letter of support is offered by the ITS program faculty for the proposed program modifications as follows:

Technology Core: TKB & TKT Courses

- 1) Modify the general education requirements:
 - a. Revising the Social/Behavioral Science: From the listed PSY 1013 General Psychology & PS 1113 American Government to "*See General Education Requirement*"
 - b. Revising the Humanities core requirement: From U.S. or World History and Literature to "*See General Education Requirement*"
 - c. Adding one more Oral Communication requirement: *CO 1013 Introduction to Communication*
- 2) Remove the following courses:
 - a. *TKB 1312 Information Resource Management*
 - b. *TKB 1123 Document Formatting/Information Processing*
- 3) Modify the following courses:
 - a. *TKB 2122 Introduction to Database Management*
 - b. *TKB 2132 Introduction to Spreadsheet Design and Analysis*
 - c. *TKB 4543 Advanced Information Processing*
 - d. *TKT 4753 Presenting with Media*
- 4) Add the following course:
 - a. *TKT 4203 Emerging Technologies*

As indicated by the signatures below, a majority of the program area faculty have approved the proposal as written for submission to the Box Council and the UCCC.

Program Area Faculty

 Dr. Joanne Beriswill	3/30/15 [Date]
 Dr. Pamela Bracey	4/7/15 [Date]
 Dr. Kun Huang	3/30/15 [Date]
 Ms. Vicki Keel	4-8-15 [Date]
 Dr. Sang Joon Lee	4/9/2015 [Date]
 Dr. Anthony Olinzock	4/9/15 [Date]
 Dr. Chien Yu	3/30/2015 [Date]

APPROVAL FORM FOR

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College: Engineering **Department:** Computer Science & Engineering

Contact Person: T.J. Jankun-Kelly **Mail Stop:** 9637 **E-mail:** tjkc@cse.msstate.edu

Nature of Change: Modification **Date Initiated:** 8/21/15 **Effective Date:** Spring 16

Degree to be offered at: Starkville (Campus 1)

Current Degree Program Name: Master of Science

Major: Computer Science **Concentration:**

New Degree Program Name: Master of Science

Major: Computer Science **Concentration:**

Summary of Proposed Changes:

Reduction of the number of coursework hours in the non-thesis program from 34 to 31.

Approved:

Donna Sizere
Department Head

[Signature]
Chair, College or School Curriculum Committee

[Signature]
Dean of College or School

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

Date:

8/21/15

9/1/15

9/4/15

IHL Action Required

SACS Letter Sent

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

College: Engineering **Department:** Computer Science & Engineering

Contact Person: T.J. Jankun-Kelly **Mail Stop:** 9637 **E-mail:** tjkc@cse.msstate.edu

Nature of Change: Modification **Date Initiated:** 8/21/15 **Effective Date:** Spring 16

Degree to be offered at: Distance Learning (Campus 5)

Current Degree Program Name: Master of Science

Major: Computer Science **Concentration:**

New Degree Program Name: Master of Science

Major: Computer Science **Concentration:**

Summary of Proposed Changes:

Reduction of the number of coursework hours in the non-thesis program from 34 to 31.

Approved:
Donna S Reese
Department Head

Date:
8/21/15

Chair, College or School Curriculum Committee
Xavier Robles
Dean of College or School

9/4/15

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

Chair, Deans Council

IHL Action Required

SACS Letter Sent

1. Catalog Description

There is no proposed change to the current catalog description.

2. GRADUATE DEGREE CURRICULUM OUTLINE

Deleted changes are in *italic*; added are in **bold**.

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Master of Science Major: Computer Science (Non-Thesis) Concentrations: N/A		Degree: Master of Science Major: Computer Science (Non-Thesis) Concentrations: N/A	
(No change to catalog description)		(No change to catalog description)	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
<u>Fundamental Area Courses</u> At least three of the following: - CSE 6153 Data Communications and Computer Networks - CSE 6163 Designing Parallel Algorithms - CSE 6214 Introduction to Software Engineering - CSE 6413 Principles of Computer Graphics - CSE 6503 Database Management Systems - CSE 6633 Artificial Intelligence A student who has taken any of these six courses for undergraduate credit may use the undergraduate course to meet the graduate Fundamental Areas requirement and substitute another graduate-level course approved by the student's graduate committee.	9	<u>Fundamental Area Courses</u> At least three of the following: - CSE 6153 Data Communications and Computer Networks - CSE 6163 Designing Parallel Algorithms - CSE 6214 Introduction to Software Engineering - CSE 6413 Principles of Computer Graphics - CSE 6503 Database Management Systems - CSE 6633 Artificial Intelligence A student who has taken any of these six courses for undergraduate credit may use the undergraduate course to meet the graduate Fundamental Areas requirement and substitute another graduate-level course approved by the student's graduate committee.	9
<u>Theory Courses</u> One of the following: - CSE 8813 Theory of Computation - CSE 8833 Algorithms - CSE 8843 Complexity of Sequential and Parallel Algorithms - CSE 8990 Special Topics in Computer Science & Engineering CSE8990 may only be chosen if it has been designated in advance by the department as a theory course fulfilling this requirement.	3	<u>Theory Courses</u> One of the following: - CSE 8813 Theory of Computation - CSE 8833 Algorithms - CSE 8843 Complexity of Sequential and Parallel Algorithms - CSE 8990 Special Topics in Computer Science & Engineering CSE8990 may only be chosen if it has been designated in advance by the department as a theory course fulfilling this requirement.	3
<u>Seminar</u> - CSE 8011 Graduate Seminar	1	<u>Seminar</u> - CSE 8011 Graduate Seminar	1

<u>Non-Thesis Option</u> - Graduate Coursework. A minimum of 15 credit hours of the courses in the program of study must be at the full graduate level (numbered 8000 or 9000). One of the three additional courses may be CSE 8080 if the student's major professor (or another member of the student's graduate committee) agrees to direct the project.	21	<u>Non-Thesis Option</u> - Graduate Coursework. A minimum of 15 credit hours of the courses in the program of study must be at the full graduate level (numbered 8000 or 9000). One of the three additional courses may be CSE 8080 if the student's major professor (or another member of the student's graduate committee) agrees to direct the project.	18
Total Hours	34	Total Hours	31

3. JUSTIFICATION AND STUDENT LEARNING OUTCOMES

This proposal reduces the number of coursework hours required to earn a non-thesis Master of Science degree in Computer Science from the current 34 hours to 31 hours, 1 above the university minimum. This change is both for main (Campus 1) and distance (Campus 5) options. The motivation of this change is twofold: First, to bring the number of hours in line with our thesis option (which requires 31 hours); in addition, it improved the time to complete for members of our accelerated program and thus makes it a more attractive offering. By decreasing the hours to 31, an accelerated BS/MS student may complete 3 graduate courses in their BS, 3 more in each of Fall & Spring (with Seminar in Fall) in their MS program and one course during the intervening summer to complete in one additional year past their BS. This change will help the program better meet local, state, and national education needs by increasing the availability of the MS degree to our undergraduates; increasing availability will only serve to advance diversity within the discipline. The change will not result in duplication within the state. Finally, increasing the number of MS CS graduates will increase the placement of graduates and potential salaries of graduates in MS, the region, and the nation.

4. SUPPORT

A letter of support from the Graduate Coordinator of the Department of Computer Science and Engineering is attached.

5. PROPOSED 4-LETTER ABBREVIATION

The MSU registrar has adopted CS as the abbreviation of Computer Science degrees.

6. EFFECTIVE DATE

Spring 2016



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

Dr.T.J. Jankun-Kelly
Associate Professor & Graduate Coordinator
tjk@cse.msstate.edu

August 21, 2015

University Committee on Courses & Curricula
218 Garner Hall
Mailstop 9702
Mississippi State University

UCCC Committee,

With this letter, the Department of Computer Science & Engineering requests approval to reduce the number of coursework hours for non-thesis Master of Science students from 34 to 31. This change will better serve our current Accelerated BS/MS students and bring in line the number of hours in our thesis and non-thesis options. This modification was approved by the faculty of Computer Science & Engineering at our faculty meeting on Friday, August 21st, 2015.

Please do not hesitate to contact me if additional information is needed.

Sincerely yours,

T.J. Jankun-Kelly
Associate Professor & Graduate Coordinator



MISSISSIPPI STATE UNIVERSITY™
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING

DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

Andy D. Perkins, Ph.D.
Associate Professor
perkins@cse.msstate.edu

July 29, 2015

University Committee on Courses and Curricula
PO Box 5268
Mississippi State, MS 39762

Dr. Swortzel:

Please find attached a proposal to modify the non-thesis MS degree in Computer Science to reduce the number of coursework hours from 34 to 31. The faculty voted to approve this change on August 21, 2015.

Please feel free to contact me for more information.

Sincerely,

Andy D. Perkins, Ph.D.
CSE Courses and Curricula Chair
Associate Professor

Cindy Bethel, Ph.D.
CSE Courses and Curricula Member
Associate Professor

Mahalingam Ramkumar
CSE Courses and Curricula Member
Associate Professor