UNIVERSITY OF MIAMI
FACULTY SENATE

The John Knoblock   Ashe Administration Building, #325   facsen@miami.edu
Faculty Senate Office   1252 Memorial Drive   fs.miami.edu
                           Coral Gables, Florida 33146   Ph: 305-284-3721
                                                                  Fax: 305-284-5515

MEMORANDUM

To: Julio Frenk
University President

From: Linda L. Neider
Chair, Faculty Senate

Date: February 3, 2020

Subject: Faculty Senate Legislation #2019-41(B) – Revise the Curriculum for the Master in Science (MS) in Business Analytics Program – Herbert Business School

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The Faculty Senate, at its January 29, 2020 meeting, had no objections to the approval of the Herbert Business School's revision to the MS in Business Analytics curriculum. The purpose of these changes are meant to provide greater flexibility to students entering the program from diverse backgrounds. NO changes are

The proposal is enclosed for your reference.

This legislation is now forwarded to you for your action.

LLN/ss/rh

cc: Jeffrey Duerk, Executive Vice President and Provost
John Quelch, Dean, Herbert Business School
Patricia Abril, Vice Dean – Graduate Business Education, Herbert Business School
Daniel McGibney, Assistant Professor of Professional Practice, Herbert Business School
Doug Lehman, Assistant Professor of Professional Practice, Herbert Business School

CAPSULE: Faculty Senate Legislation #2019-41(B) – Revise the Curriculum for the Master in Science (MS) in Business Analytics Program – Herbert Business School

PRESIDENT'S RESPONSE

APPROVED: _____ DATE: 02/21/20
(President's Signature)

OFFICE OR INDIVIDUAL TO IMPLEMENT: John Quelch, Dean, Business School

EFFECTIVE DATE OF LEGISLATION: _____IMMEDIATELY_____
(if other than June 1 next following)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

Proposal Submission Checklist

Proposals are to be submitted to the Office of Assessment and Accreditation (OAA), the Graduate Council (for graduate programs excluding Law and Medical), OR the University Curriculum Committee (for undergraduate programs) and the Faculty Senate. Refer to the Procedures for Program Changes *document for information on the approvals and notifications needed for program changes and the* Proposal Submissions Specifications *document for an explanation of the process and a list of the materials required.*

(Please note that change approvals can take 2 semesters to complete.)

FORM INSTRUCTIONS:
1. Save/download the form as a pdf.
2. After completing the information below, print and scan the form.
3. Insert it with the background materials that are specified, in the order listed, and submit to facsen@miami.edu.
Please note: *only scanned versions can be accepted.*

Include this checklist at the beginning of each proposal.

KEY CONTACT PERSONNEL INFORMATION

First Name	Last Name	Proponent's Title
Patricia	Abril	Vice Dean, Graduate Business Education

Department, if applicable	School/College
Management Science	Miami Herbert Business School

E-mail	Phone
pabril@miami.edu	305-284-2245

Title of Proposal

Curriculum Change: Master of Science in Business Analytics

MANDATORY MEMORANDA AND FORMAT

Please check that each item listed below is included in the proposal package of materials, in the ORDER as listed. The applicable title (i.e. Letter of Explanation, Memo from the Dean, etc.) is to precede each section in the materials.

Only proposals conforming to this format will be accepted.

1. This completed checklist.

2. Letter of explanation. (2-3 pages only, double spaced, 12 pt font)

⦿ Yes   ◯ No

If no, explain why:

3. A memo from the dean(s) signifying approval of the faculty of the relevant School(s) / Colleges(s).

⦿ Yes   ◯ No

If no, explain why:

4. A memo that all affected or relevant School / College Council(s) have approved.

⦿ Yes   ◯ No

If no, explain why:

5. A memo from the department chair(s) signifying approval of the faculty of the relevant department(s).

◉ Yes   ◯ No

If no, explain why:

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6.   A memo from the Office of Accreditation and Assessment (OAA) if the proposal involves academic programs (degrees, certificates, majors, minors, concentrations, specializations, tracks, etc.) such as new programs, closing programs, or program changes (such as changes in requirements, program length, modality, name, location).

◉ Applicable   ◯ Not applicable.

If not, explain why:

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7.   A memo from the Graduate School Dean signifying approval of the Graduate Council (for graduate programs only) OR the University Curriculum Committee (for undergraduate programs only) recommendation form.

◉ Applicable   ◯ Not applicable.

If not, explain why:

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8. Academic Deans Policy Council (ADPC) approval, for interdisciplinary issues and as appropriate. Please consult with the <u>Dean of the Graduate School</u> or the <u>Secretary of the Faculty Senate</u> to check if this is needed.

○ Yes   ◉ No

If no, explain why:

N/A

9. Additional required documents as listed on the "<u>Proposal Submissions Specifications</u>," i.e. market analysis, budget information, assessment of library collections, etc. as specified.

List additional documents included:

N/A

End form.

U | UNIVERSITY OF MIAMI
MIAMI HERBERT
BUSINESS SCHOOL

MEMORANDUM

TO: General Welfare Committee
             Faculty Senate

FROM: Patricia Sanchez Abril., JD, Vice Dean, Graduate Business Education

CC: Yongtao Guan, Ph.D., Department Chair, Professor, Management Science
             Doug Lehmann, Ph.D., Assistant Professor of Professional Practice & Academic Director,
             MS in Business Analytics
             Daniel McGibney, Ph.D., Assistant Professor of Professional Practice & Academic Director,
             MS in Business Analytics

Subject: Curriculum Change: Master of Science in Business Analytics

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Proposal: To modify the curriculum of the MS in Business Analytics program. (See attached proposal by Drs. Yongtao Guan, Doug Lehmann, and Daniel McGibney for details.)

Reasoning:

The proposed changes are meant to provide greater flexibility for students who come into the program with diverse backgrounds. No changes are being made to the program length.

Resource Implications: None

Procedural History:

- Graduate Business Education Committee - Discussed and approved 9/27/19
- School Council of the Miami Business School - Discussed and approved 10/14/19
- Graduate Council – Discussed and approved 11/19/19

Proposal

To meet the needs of the diverse student body in the MS in Business Analytics program, the faculty of Management Science propose lhe following modification to the core curriculum:

- Require students to select at least two courses out of a group of four courses - MAS 640, MAS 646, MAS 649, and MAS 651 - rather than require all four of them.

Justification

These four courses cover more specialized topics in data science and are only needed for students who are interested in data science careers. Given the diverse backgrounds of students entering the MS in Business Analytics program and their wide range of career goals, some students would be better served taking additional elective coursework in their area of interest.

MS in Business Analytics- Proposed Curriculum

Required Courses		Credit Hours
BUS 610	Critical Thinking and Persuasion for Business	2
MAS 627	Programming for Data Analytics	2
MAS 631	Statistics for Managerial Decision Making	2
MAS 632	Management Science Models for Decision Making	2
MAS 637	Applied Regression Analysis I	2
MAS 639	Data Acquisition, Preparation, and Visualization	2
MAS648	Machine Learning for Data Analytics I	2
MAS 650*	Business Analytics Internship	2
At least two of the following Core Courses:		**4-8**
MAS640	Applied Time Series Analysis and Forecasting	
MAS646	Applied Regression Analysis II	
MAS649	Big Data Analytics	
MAS651	Machine Learning for Data Analytics II	

Additional Required Courses	
Electives**	**8-12**
Total Required Credits	**32**

*Students may take MAS 6S2 -Business Analytics Capstone -if an internship cannot be obtained.
**Students are required to complete 32 credits for a Master of Science in Business Analytics Degree. Students who choose to take two of the four core courses must take additional electives to meet the 32 credits requirement.

UNIVERSITY OF MIAMI
MIAMI HERBERT
BUSINESS SCHOOL

MEMORANDUM

TO: General Welfare Committee
        Faculty Senate

FROM: Chester A. Schriesheim, Speaker of the School Council
        Shirley Dennis-Escoffier, Associate Professor, Accounting,
        First Vice Chair, School Council
        Karoline Mortensen, Associate Professor, Health Management and Policy,
        Second Vice Chair, School Council
        Raphael Boleslavsky, Associate Professor, Economics
        Howard Gitlow, Professor, Management Science
        Uzma Khan, Associate Professor, Marketing
        George Korniotis, Professor, Finance
        Sara Rushinek, Professor, Business Technology

Subject: MS in Business Analytics Curriculum Change

Date: October 16, 2019

The School Council met on October 14, 2019 and voted unanimously to approve a curriculum change to the MS in Business Analytics.

Please note that the voting members of the Miami Business School (MBS), the regular faculty per the MBS bylaws, voted to delegate all decisions on curriculum issues to their elected representatives on the School Council for the fall 2019-spring 2020 academic year.

UNIVERSITY OF MIAMI
MIAMI HERBERT
BUSINESS SCHOOL

MEMORANDUM

TO:	General Welfare Committee
	Faculty Senate
FROM:	John Quelch, Dean, Miami Herbert Business School
Subject:	Support for the MS in Business Analytics Curriculum Change
Date:	October 15, 2019

This memo is to document my support for the proposed curriculum change of the MS in Business Analytics.

Thank you.

UNIVERSITY OF MIAMI
MIAMI HERBERT
BUSINESS SCHOOL

MEMORANDUM

Date:	December 17, 2019
To:	General Welfare Committee Faculty Senate
From:	Yongtao Guan, Professor and Chair, Management Science Department
Subject:	Master of Science in Business Analytics – Curriculum Modification

This memo is to document the support of the Management Science Department's faculty members for the proposed Master of Science in Business Analytics – Curriculum modification.

UNIVERSITY
OF MIAMI

Assessment and Accreditation
Gables One Tower 1320 S. Dixie Hwy
Coral Gables, Florida 33146

Phone: 305-284-5120
Fax: 305-284-4929
oaa.miami.edu

MEMORANDUM

DATE: November 8, 2019

TO: Patricia Abril, Vice Dean, Graduate Business Education
Miami Business School

FROM: Patty Murphy, Associate Provost for University Accreditation
Office of Assessment and Accreditation

RE: Revisions to the MS in Business Analytics Program

On October 22, 2019, the Miami Business School notified my office of its intent to revise the curriculum of the Master of Science in Business Analytics (MSBA) program effective Fall 2020 (academic plan code: BUAN_MSBA). The proposed changes are meant to provide greater flexibility for students who come into the program with diverse backgrounds. No changes are being made to the program length.

Required Courses		**Credit Hours**
BUS 610	Critical Thinking and Persuasion for Business	2
MAS 627	Programming for Data Analytics	2
MAS 631	Statistics for Managerial Decision Making	2
MAS 632	Management Science Models for Decision Making	2
MAS 637	Applied Regression Analysis I	2
MAS 639	Data Acquisition, Preparation, and Visualization	2
MAS 648	Machine Learning for Data Analytics I	2
MAS 650*	Business Analytics Internship	2
At least two of the following Core Courses:		4-8
MAS 640	Applied Time Series Analysis and Forecasting	
MAS 646	Applied Regression Analysis II	
MAS 649	Big Data Analytics	
MAS 651	Machine Learning for Data Analytics II	

Additional Required Courses

Electives**   8-12

Total Required Credits   32

* Students may take MAS 652 -Business Analytics Capstone -if an Internship cannot be obtained.
**Students are required to complete 32 credits for a Master of Science in Business Analytics Degree. Students who choose to take two of the four core courses must take additional electives to meet the 32 credits requirement.

The proposed changes do not "represent a significant departure, either in content or method of delivery" from what we are currently approved by SACSCOC to offer because the curricular changes do not involve changes in content and the program length meets the minimum of 30 credit hours. SACSCOC only requires notification of program changes that represent a significant departure from our current programs. Therefore, no notification or approval is required for this change.

Please contact me if you have any questions at pattymurphy@miami.edu or (305) 284-3276.

CC: Faculty Senate
        Guillermo Prado, Dean of the Graduate School
        John Quelch, Dean of the School of Business
        Karen Beckett, University Registrar
        Carrie Glass, Executive Director of Student Financial Assistance and Employment

UNIVERSITY OF MIAMI
GRADUATE SCHOOL

MEMORANDUM

DATE: November 27, 2019

TO: Linda Neider
            Chair, Faculty Senate

FROM: Guillermo (Willy) Prado *Willm Prad*
            Dean, Graduate School

SUBJECT: Proposals – Miami Herbert Business School Master of Science in Business Analytics

The Miami Herbert Business School submitted a proposal to revise the curriculum of the Master of Science in Business Analytics (MSBA) program effective Fall 2020 (academic plan code: BUAN_MSBA). They submitted a second proposal to revise the curriculum of the Master of Science in Business Analytics (MSBA) component of the BBA/BSBA – MSBA dual degree programs effective Fall 2020 (academic plan code: BUAN_MSBA). The proposals were discussed at the meeting of the Graduate Council on Tuesday, November 19, 2019. There were no concerns expressed by Council members present.

CC: Yongtao Guan, Department Chair and Leslie O. Barnes Professor, Management Science
        Doug Lehmann, Assistant Professor of Professional Practice & Academic Director, MS
          in Business Analytics
        Daniel McGibney, Assistant Professor of Professional Practice & Academic Director, MS
          in Business Analytics
        Patricia Sanchez Abril, Vice Dean, Graduate Business Education
        Tiffany Plantan, Director of Education, Graduate School
        Patty Murphy, Associate Provost for University Accreditation, Office of
          Assessment and Accreditation