

New Graduate Course Proposal

Form Procedure

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Course Title

 Course Title:

 Proposed Banner Abbreviation:

Banner limit of 30 characters, including punctuation, spaces, and special characters.

Department/Committee Information

The main contact person for the Graduate Curriculum Committee should fill out this form.

 Requestor Name:

 Members of the Graduate Curriculum Committee:

 Department / Unit Developing:

 Chair of Department for Program: Chair Email:

 Academic Dean of Department or Program: Academic Dean E-mail:

 Program Chair The Program Chair for this request is among the people listed above.

- * Yes
- No

Course Information

Course Description

To stay competitive businesses need to engage in data analytics. This course offers students an overview of employing analytics in business and provides a roadmap for defining and running business analytics projects. This course provides a mixture of lectures, readings, group discussions, and business case analysis. It is not expected that students will have previous data science or analytics knowledge.

Rationale and expected outcomes of offering the Course

1. Integrate project management and business analysis methods in analytics projects to optimize business goals.
2. Create a collaborative team environment by building upon other members contributions to accomplish a goal as decided by the discussion group assigned.
3. Build and present effective communication of concepts and ideas through group discussions and business case analysis papers.
4. Examine the 4 basic data analytics to determine the best approach based upon the business goal.
5. Analyze the various ethical, legal, and global considerations that need to be considered when engaging in analytics projects.
6. Study the technology and tools currently available for running analytics and look toward the future.
7. Evaluate how business analytics is used to influence and motivate the achievement of business strategy.

 Number of Credits:

 Discipline Prefix or Prefixes:

 Brief rationale if more than one prefix:

Level of Course: 7000 8000 9000 Brief rationale for level choice:

The course will be: Requirement Elective Elective or Requirement Note/Special:

Is there a similar undergraduate course? Yes No

Does this course affect offerings in any other department or program? Yes No

Course Enrollment

Expected Average Enrollment:

This course is a replacement for: Course # / Name

Has the course been offered previously as a "Topics" course? Yes No

Is this an Extended Campus Course? Yes No

Which semester will this course be offered for the first time?: How often thereafter to be offered?:

Course Requirements

Prerequisite course(s) if any:

Additional Requirements
 Laboratory Hours: Fieldwork Hours:
 Pre-Practicum Hours: Practicum Hours:

Other Requirements (specify):

Syllabus Upload

New Course Syllabus Upload: Proposal-MBA-Data_Analytics-Managing_Business_Analytics-20211209.pdf

Signatures

Click on the Submit Form button at the bottom of the page after you have signed the form. You should receive an email confirmation that your signature has been completed.

...3834343031
Denise Dimion 12/09/2021
 Requester Signature Date

...3633313533
Renee Scapparone 12/10/2021
 Department Chair Approval Date

...3935353631
Nancy Murray 12/13/2021
 Academic Dean Signature Date

...3937383636
Becky Copper Allenz 12/13/2021
 SGOCE Dean Signature Date

 Approval of the Graduate Council Date

 Approval of the President Date

Notification

Reviewed by the Registrar: _____

Reviewed by the Library: _____

SGOCE Admin. Assistant
Signature

Electronically signed by Denise Bertrand on 12/10/2021 2:05:47 PM

COURSE NAME Managing Business Analytics

INSTRUCTOR Denise Simion, PhD

COURSE DESCRIPTION To stay competitive businesses need to engage in data analytics. This course offers students an overview of employing analytics in business and provides a roadmap for defining and running business analytics projects. This course provides a mixture of lectures, readings, group discussions, and business case analysis. It is not expected that students will have previous data science or analytics knowledge.

COURSE OBJECTIVES

1. Integrate project management and business analysis methods in analytics projects to optimize business goals.
2. Create a collaborative team environment by building upon other members contributions to accomplish a goal as decided by the discussion group assigned.
3. Build and present effective communication of concepts and ideas through group discussions and business case analysis papers.
4. Examine the 4 basic data analytics to determine the best approach based upon the business goal.
5. Analyze the various ethical, legal, and global considerations that need to be considered when engaging in analytics projects.
6. Study the technology and tools currently available for running analytics and look toward the future.
7. Evaluate how business analytics is used to influence and motivate the achievement of business strategy.

TOPICAL OUTLINE	ESTIMATED CONTACT HOURS
Business Data Analytics Basics <ul style="list-style-type: none">• Key Terminology• Scientific Method Concepts and Process• Business Analysis Concepts, Tools, and Process• 4 Basic Types of Data Analytics• Data Analytics Spectrum• Data Scientists and Technology	4
Aligning Business Strategy and Company Culture to Data Analytics <ul style="list-style-type: none">• Strategic Plans Review• Considerations of Company Culture• Working with Stakeholders• Questions for Defining a Business Need• Determine Business Impact: Internal or External Processes• Assigning Financial Value to “Intangibles”	6

TOPICAL OUTLINE		ESTIMATED CONTACT HOURS
	Defining the Analytics Project	
III	<ul style="list-style-type: none"> • Determine Leading Indicators • Hypothesis Creation and Intervention Definition • Aligning Analytics Project to Leading Indicators • Analytics Project Selection • Data Analytics Type Selection 	6
	Data Collection Management Process	
IV	<ul style="list-style-type: none"> • Defining Measurement Map and Metrics Checklist • Database Structure • Data Collection and Cleaning • Data Collection Considerations: Ethics, Legal, and Global 	6
	Analytics Implementation	
V	<ul style="list-style-type: none"> • Review of Statistics • Correlation versus Causation • Analytics Continuum Reviewed • Five Stages of Analytical Maturity • Autonomous Considerations: Ethics, Legal, and Global 	6
	Managing Data Analytics Initiatives	
VI	<ul style="list-style-type: none"> • Project Management Process (Inception through Evaluation) • Managing an Analytics Project Team versus a Department • Leadership and Communication Considerations 	6
	Today, Tomorrow, and Beyond	
VII	<ul style="list-style-type: none"> • Visualization Techniques for Communicating Data • Predictive Analytics • Machine Learning and Artificial Intelligence • Reimagine the Business Strategy 	6
Total Sessions Expressed as Contact Hours		40

RECAP

IDENTIFICATION OF CPC TOPICS COVERED IN THIS COURSE	ESTIMATED CONTACT HOURS
Accounting	1
Marketing	1
Finance	1
Management Management Principals Organizational Behavior Human Resource Management Operations Management	3 3 3 3
Economic/Social/Legal Environment Legal Environment of Business Economics Business Ethics	3 3 3
Decision-Support Tools Information Systems Quantitative Methods/Statistics	15 15
International/Global Dimensions of Business	3
Integrative Experience	3
Total (estimate of contact hours)	60

GRADING SCALE

4.0	A	95-100
3.7	A-	92-94
3.5	A-/B+	89-91
3.3	B+	86-88
3.0	B	83-85
2.7	B-	80-82
2.5	B-/C+	77-79
2.3	C+	74-76
2.0	C	71-73
0	F	0-70

REQUIRED TEXT

Competing on Analytics: The New Science of Winning. Thomas H. Davenport & Jeanne G. Harris. Harvard Business Review Press, 2017. ISBN: 978-1633693722.