

# MSBA 204: OPERATIONS ANALYTICS AND DECISION MODELS

## In Workflow

1. CBA College Committee Chair (jlee@csus.edu)
2. CBA Dean (mikhaili@csus.edu)
3. Academic Services (torsetj@csus.edu;%20212408496@csus.edu;%20cnewsome@skymail.csus.edu)
4. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
5. Dean of Undergraduate (james.german@csus.edu;%20celena.showers@csus.edu)
6. Dean of Graduate (cnewsome@skymail.csus.edu)
7. Catalog Editor (212408496@csus.edu;%20torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
8. Registrar's Office (w lindsey@csus.edu)
9. PeopleSoft (PeopleSoft@csus.edu)

## Approval Path

1. Wed, 08 Apr 2020 21:02:29 GMT  
Jai Joon Lee (jlee): Approved for CBA College Committee Chair
2. Wed, 08 Apr 2020 23:54:12 GMT  
Jaydeep Balakrishnan (jaydeep.balakrishnan): Approved for CBA Dean

## New Course Proposal

Date Submitted: Wed, 25 Mar 2020 22:37:02 GMT

**Viewing: MSBA 204 : Operations Analytics and Decision Models**

**Last edit: Wed, 25 Mar 2020 22:37:01 GMT**

Changes proposed by: Min Li (101017159)

### Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Min Li	Min.Li@csus.edu	916-278-7132

### Catalog Title:

Operations Analytics and Decision Models

### Class Schedule Title:

Operations Analytics

### Academic Group: (College)

CBA - Business Administration

### Academic Organization: (Department)

Business Administration

### Will this course be offered through the College of Continuing Education (CCE)?

Yes

### Please specify:

CCE Only

### Catalog Year Effective:

Fall 2020 (2020/2021 Catalog)

### Subject Area: (prefix)

MSBA - Business Analytics

### Catalog Number: (course number)

204

### Course ID: (For administrative use only.)

TBD

**Units:**

3

**In what term(s) will this course typically be offered?**

Fall, Spring, Summer

**Does this course require a room for its final exam?**

No, final exam does not require a room

**Does this course replace an existing experimental course?**

No

**This course complies with the credit hour policy:**

Yes

**Justification for course proposal:**

This is a required course for the proposed MS in Business Analytics program. The course presents critical analytical methods necessary to achieve program learning objectives.

**Course Description: (Not to exceed 80 words and language should conform to catalog copy.)**

Introduction to operations analytics and decision models for the solution and analysis of business problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes. Graded: Graded Student. Units: 3.0

**Are one or more field trips required with this course?**

No

**Fee Course?**

No

**Is this course designated as Service Learning?**

No

**Does this course require safety training?**

No

**Does this course require personal protective equipment (PPE)?**

No

**Does this course have prerequisites?**

No

**Does this course have corequisites?**

No

**Graded:**

Letter

**Approval required for enrollment?**

No Approval Required

**Course Component(s) and Classification(s):**

Lecture

**Lecture Classification**

CS#02 - Lecture/Discussion (K-factor=1WTU per unit)

**Lecture Units**

3

**Is this a paired course?**

No

**Is this course crosslisted?**

No

**Can this course be repeated for credit?**

No

**Can the course be taken for credit more than once during the same term?**

No

**Description of the Expected Learning Outcomes: Describe outcomes using the following format: 'Students will be able to: 1), 2), etc.'**

Students will be able to:

1. explain what decision models are and how it may be used as an aid to decision making,
2. formulate mathematical models of real-world decision-making problems,
3. use software tools to assist in the quantitative analysis of business problems.

**Attach a list of the required/recommended course readings and activities:**

SYLLABUS\_DecisionModels.pdf

**Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.**

Students will be assessed on the curriculum in the class using a variety of methods, including:

Projects  
Exams  
Quizzes  
Homework Assignments

**For whom is this course being developed?**

Majors in the Dept

**Is this course required in a degree program (major, minor, graduate degree, certificate?)**

Yes

**Has a corresponding Program Change been submitted to Workflow?**

No

**Identify the program(s) in which this course is required:**

**Programs:**

Master of Science in Business Analytics

**Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?**

No

**Will there be any departments affected by this proposed course?**

No

**I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.**

I/we agree

## University Learning Goals

**Graduate (Masters) Learning Goals:**

Critical thinking/analysis  
Disciplinary knowledge

**Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?**

No

**Is this a Graduate Writing Intensive (GWI) course?**

No

Key: 13890