

A deleted record cannot be edited

## Program Deactivation Proposal

Date Submitted: 08/16/23 2:25 pm

Viewing: **DATA-M : Data Analytics Minor**

Last approved: 01/03/23 1:26 pm

Last edit: 09/05/23 4:46 pm

Changes proposed by: cassady

Catalog Pages Using  
this Program

[Data Analytics \(DATA\)](#)

[Industrial Engineering \(INEG\)](#)

End Catalog                      Fall 2024

No new students  
admitted after:

[Summer 2024](#)

Allow students in  
program to complete  
through:

[Summer 2025](#)

Number of students  
still enrolled:

[65](#)

Courses Deleted as a  
result of this action:

How will students in  
the deleted program  
be accommodated?

[Students who have declared the minor by summer 2024 will have until summer 2025 to complete the minor. Students who have strong interest in the area now have the option to pursue a degree in data science or a modernized degree in industrial engineering. These options did not exist when the minor was created.](#)

How will funds from  
the deleted program  
be reallocated?

[NA](#)

### In Workflow

1. ENGR Dean Initial
2. Provost Initial
3. Director of Curriculum Review and Program Assessment
4. Registrar Initial
5. Institutional Research
6. INEG Chair
7. ENGR Curriculum Committee
8. ENGR Faculty
9. ENGR Dean
10. Global Campus
11. Provost Review
12. Undergraduate Council
13. Faculty Senate
14. Provost Final
15. Registrar Final
16. Catalog Editor Final

### Approval Path

1. 08/16/23 4:23 pm  
Kevin Hall (kdhall):  
Approved for ENGR  
Dean Initial
2. 08/16/23 7:14 pm  
Jim Gigantino  
(jgiganti): Approved  
for Provost Initial
3. 09/05/23 4:25 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Director of  
Curriculum Review  
and Program  
Assessment

Deactivation  
attachments

4. 09/07/23 2:57 pm  
Gina Daugherty  
(gdaugher):  
Approved for  
Registrar Initial
5. 09/07/23 3:55 pm  
Doug Miles  
(dmiles): Approved  
for Institutional  
Research
6. 09/19/23 11:53 am  
Chase Rainwater  
(cer): Approved for  
INEG Chair
7. 10/05/23 4:44 pm  
rossetti: Approved  
for ENGR  
Curriculum  
Committee
8. 10/10/23 4:17 pm  
Kevin Hall (kdhall):  
Approved for ENGR  
Faculty
9. 10/10/23 4:17 pm  
Kevin Hall (kdhall):  
Approved for ENGR  
Dean
10. 10/10/23 4:26 pm  
Suzanne Kenner  
(skenner): Approved  
for Global Campus
11. 10/10/23 4:53 pm  
Jim Gigantino  
(jgiganti): Approved  
for Provost Review
12. 10/27/23 5:27 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Undergraduate  
Council

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## History

1. May 11, 2018 by  
Tamara Ellenbecker

Justification for this request

[The creation of the undergraduate program in Data Science and the recent change to the Industrial Engineering curriculum have rendered the Data Analytics minor obsolete.](#)

(tellenbe)

2. May 27, 2020 by Lisa Kulczak (lkulcza)
3. Jun 1, 2020 by Lisa Kulczak (lkulcza)
4. Jan 12, 2021 by Tamara Ellenbecker (tellenbe)
5. May 18, 2021 by Tamara Ellenbecker (tellenbe)
6. Apr 8, 2022 by Gina Daugherty (gdaugher)
7. Jan 3, 2023 by cassady

Submitter: User ID: cassady Phone: 575-3156

Program Status Active

Academic Level Undergraduate

Type of proposal Minor

Effective Catalog Year Fall 2024

College/School Code College of Engineering (ENGR)

Department Code

Department of Industrial Engineering (INEG)

Program Code DATA-M

Degree Minor

CIP Code 11.0401 - Information Science/Studies.

Program Title

Data Analytics Minor

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program? 15-18

## Program Requirements and Description

Requirements

Requirements for the minor in Data Analytics: The minor requires completion of 15-18 credits of coursework, including:

One course from Applied Statistics and Math Modeling group

3-4

[INEG 2314](#)

Statistics for Industrial Engineers I

<a href="#"><u>INEG 2333</u></a>	Applied Probability and Statistics for Engineers II	
<a href="#"><u>INEG 3313</u></a>	Engineering Probability and Statistics	
<a href="#"><u>ELEG 3143</u></a>	Probability & Stochastic Processes	
<a href="#"><u>STAT 2823</u></a>	Biostatistics	
<a href="#"><u>STAT 3013</u></a>	Introduction to Probability	
Two courses from Computing and Informatics group		6-8
<a href="#"><u>CSCE 2004</u></a>	Programming Foundations I	
<a href="#"><u>CSCE 2014</u></a>	Programming Foundations II	
<a href="#"><u>INEG 4683</u></a>	Decision Support in Industrial Engineering	
<a href="#"><u>INEG 3833</u></a>	Introduction to Database Concepts for Industrial Engineers	
<a href="#"><u>ISYS 2263</u></a>	Principles of Information Systems	
<a href="#"><u>STAT 3003</u></a>	Statistical Methods	
<a href="#"><u>STAT 3001L</u></a>	Statistics Methods Laboratory	
Two courses from the Analytics group		6
<a href="#"><u>CSCE 4143</u></a>	Data Mining	
or <a href="#"><u>INEG 4143</u></a>	Data Mining	
<a href="#"><u>CSCE 4273</u></a>	Big Data Analytics and Management	
<a href="#"><u>CSCE 4613</u></a>	Artificial Intelligence	
<a href="#"><u>ECON 4743</u></a>	Introduction to Econometrics	
<a href="#"><u>ECON 4753</u></a>	Forecasting	
<a href="#"><u>INEG 4163</u></a>	Introduction to Modern Statistical Techniques for Industrial Applications	
<a href="#"><u>ISYS 4193</u></a>	Business Analytics and Visualization	
<a href="#"><u>ISYS 4293</u></a>	Business Intelligence	
<a href="#"><u>STAT 4333</u></a>	Analysis of Categorical Responses	
Total Hours		15-18

## 8-Semester Plan

Are Similar Programs available in the area?

No

Estimated Student 30-50

Demand for Program

Scheduled Program NA

Review Date

Program Goals and Objectives

#### Program Goals and Objectives

The primary objective of the Data Analytics minor is to prepare students for entry-level jobs in fields that apply Data Analytics and for graduate work in disciplines that utilize Data Analytics. The program will equip students with both hard and soft skills to analyze complex business problems using large datasets and turn all that raw information into actionable insight. The proposed minor will provide a means for our graduates to distinguish themselves by obtaining technical skills and knowledge in quantitative methodologies and technologies, and to demonstrate to potential employers that they are competent and ready for data analytics professionals.

Learning Outcomes

#### Learning Outcomes

The Analytics program will equip students with a solid amalgamation of give capabilities:

- (1) Ability to use informatics knowledge to design and deploy an infrastructure to collect, organize, and retrieve business data,
- (2) Ability to apply data management and computation to effectively manipulate, store, and analyze very large amounts of data using state-of-the-art technologies,
- (3) Ability to develop and implement mathematical/statistical models to provide abstractions of business problems,
- (4) Ability to adapt the business analytics concept to interpret and communicate meaningful pattern of business data leading to industry insights and/or business decisions, and
- (5) Ability to harness business insights from the data and use and translate it into actions, decisions and business practice.

Upload attachments

Reviewer Comments **Lisa Kulczak (lkulcza) (09/05/23 4:19 pm):** Removed attached LON, as deleting a minor does not require off-campus approval.

**Lisa Kulczak (lkulcza) (09/05/23 4:24 pm):** ATTENTION REGISTRAR: Please adjust workflow to on-campus approval only; eliminating a minor does not currently require off-campus approval.

**Gina Daugherty (gdaugher) (09/05/23 4:46 pm):** Removed off-campus approval roles from workflow.

Key: 635