



## New Program Report

**Date Submitted:**

05/11/2020

**Institution**

Northwest Missouri State University

**Site Information**

**Implementation Date:**

8/3/2020 12:00:00 AM

**Added Site(s):**

**Selected Site(s):**

Northwest Missouri State University, 800 University Drive, Maryville, MO, 64468-6001

**CIP Information**

**CIP Code:**

110199

**CIP Description:**

Any instructional program in computer science not listed above.

**CIP Program Title:**

Computer and Information Sciences, Other

**Institution Program Title:**

Data Analytics

**Degree Level/Type**

**Degree Level:**

Master Degree

**Degree Type:**

Master of Science

**Options Added:**

**Collaborative Program:**

N

**Mode of Delivery**

**Current Mode of Delivery**

Classroom

Online

**Student Preparation**

**Special Admissions Procedure or Student Qualifications required:**

N/A

**Specific Population Characteristics to be served:**

n/a

**Faculty Characteristics**



DEPARTMENT OF  
HIGHER EDUCATION &  
WORKFORCE DEVELOPMENT

## New Program Report

Special Requirements for Assignment of Teaching for this Degree/Certificate:  
Terminal degrees required.

Estimate Percentage of Credit Hours that will be assigned to full time faculty:  
50% full time faculty

Expectations for professional activities, special student contact, teaching/learning innovation:  
Additional student contact for advising is necessary, but other professional activities and expectations for teaching and learning remain the same as other programming.

### Student Enrollment Projections Year One-Five

Year 1	Full Time: 0	Part Time: 32	
Year 2	Full Time: 0	Part Time: 38	
Year 3	Full Time: 0	Part Time: 41	Number of Graduates: 30
Year 4	Full Time: 0	Part Time: 44	
Year 5	Full Time: 0	Part Time: 48	Number of Graduates: 50

### Percentage Statement:

n/a

### Program Accreditation

Institutional Plans for Accreditation:  
ABET is being investigated for computer science programming. No specific timeline is set.

### Program Structure

#### Total Credits:

30

#### Residency Requirements:

n/a

#### General Education Total Credits:

0

#### Major Requirements Total Credits:

30

#### Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
see	0	attached

#### Free Elective Credits:

0

#### Internship or other Capstone Experience:

The capstone course requires a final project utilizing a real-world data set for analysis.

### Assurances



## **New Program Report**

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus, CBHE-approved service region or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program within the geographically applicable area.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

### Contact Information

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JOHNSON

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## M.S. in Data Analytics

### New courses

Data Analytics Fundamentals 44-608  
 Practical Evaluation of Data 44-609  
 Databases for Analytics 44-661  
 Applied Machine Learning 44-670  
 Steaming Data 44-671  
 Data Analytics Capstone 44-688

### Existing courses

Financial Modeling for Decision Making in IT 44-638  
 BI and Analytics 44-632  
 Visualization 44-613  
 Advanced Decision Support Systems 44-628

Semester	Fall 2021	Fall 2021	Spring 2022	Spring 2022	Summer 2022
Term	Term 1	Term 2	Term 1	Term 2	Term 1
Course	44-608 Fundamentals	44-609 Practical Eval of Data	44-632 BI & Analytics	44-661 Database for Analytics	44-628 Adv. DSS
Enrollment	12	7	9	5	0
Semester	Summer 2022	Fall 2022	Fall 2022	Spring 2023	Spring 2023
Term	Term 2	Term 1	Term 2	Term 1	Term 2
Course	44-613 Visualization	44-670 Applied ML	44-638 Financial Modeling	44-671 Steaming Data	44-688 Capstone
Enrollment	13	8	8	8	8

Semester	Fall 2021	Fall 2021	Spring 2022	Spring 2022	Summer 2022
Term	Term 1	Term 2	Term 1	Term 2	Term 1
Course	44-608 Fundamentals	44-609 Practical Eval of Data	44-632 BI & Analytics	44-661 Database for Analytics	44-628 Adv. DSS
Semester	Summer 2022	Fall 2022	Fall 2022	Spring 2023	Spring 2023
Term	Term 2	Term 1	Term 2	Term 1	Term 2
Course	44-613 Visualization	44-670 Applied ML	44-638 Financial Modeling	44-671 Steaming Data	44-688 Capstone

