

# GRADUATE CURRICULUM FORMS

ILLINOIS STATE UNIVERSITY - NEW PROGRAM PROPOSAL

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## New Graduate Program (Majors, Sequences, Certificates) Proposal Illinois State University - Graduate Curriculum Committee

Program Department [Accounting](#)Initiator [Kent Walstrom](#)Phone [438-7157](#)Initiator Department [Accounting](#)Coauthor(s) [None](#)Title of New Program [Data Scientist: Business Information Systems in Accounting G](#)Submission Date [Monday, April 30, 2018](#)Email [kawalst@ilstu.edu](mailto:kawalst@ilstu.edu)Campus Address [5520 Accounting](#)Version [1](#) ID [60](#)Proposed Starting Catalog Year [2019-2020](#)

### Associated Course Proposals

	Course	Title	Version	Proposal Type	Initiator
<a href="#">View</a>	ACC 420	Programming for Data Science	1	New Grad Course	Kent Walstrom
<a href="#">View</a>	ACC 466	Advanced Business Data Management	1	New Grad Course	Kent Walstrom
<a href="#">View</a>	ACC 467	Developing Business Application Systems	1	New Grad Course	Kent Walstrom

#### 1. Proposed Action

New Major

New Sequence

New Certificate

More than 50% of courses in this program are Distance Education

#### 2. Provide *Graduate Catalog copy* for new program.

Data Scientist: Business Information Systems in Accounting Graduate Certificate

This 9 hour certificate provides training with programming tools designed specifically for data analysis such as Python programming language and R programming language. Data management will be explored including data preparation, data exploration, data representation, data discovery and data cleansing. Finally, the application of data analysis tools to existing big data sets will be performed. This certificate requires successful completion with a grade of B or better in each of the following courses: ACC 466, 471 and 420 or 467.

#### 3. Provide a description for the proposed program.

This certificate is a three course program designed to provide additional credentials for individuals who desire to cross train into a new field or enhance their skill set within their current field. The certificate provides training with programming tools designed specifically for data analysis such as Python programming language and R programming language. Data management will be explored including data preparation, data exploration, data representation, data discovery and data cleansing. Finally, the application of data analysis tools to existing big data sets will be performed.

#### 4. Provide a rationale of proposed program.

Stackable credentials or modular education continue to grow in importance in Business disciplines around the United States and worldwide. We believe we can provide value to students and employees with this certificate.

#### 5. Describe the expected effects of the proposed program on existing campus programs (if applicable).

The target audience for this certificate is existing MBA students and existing or recently graduated BSMPA and MSA accounting students. Based on the catalog descriptions of existing certificate programs, there does not appear to be significant overlap.

#### 6. Describe the expected curricular changes required, including new courses. If proposals for new courses that will be or have been submitted, please reference those related proposals here:

The three courses taught in this certificate are currently offered on a regular basis. ACC 471 is offered every semester.

The new graduate course ACC 466 will be offered concurrently every other semester with the corresponding undergraduate course ACC 366.

The third course ACC 467 is a graduate version of ACC 368 which is offered every semester.

Due to requests from student and Business Information Systems advisory council members, we would like to introduce and offer a new course, ACC 420, as an alternative to ACC 467. This course would be taught in place or in addition to ACC 467 by existing graduate faculty members.

New course proposals submitted with this program proposal:

ACC 420 Programming for Data Science

ACC 466, a graduate version of ACC 366 offered concurrently with ACC 366, same time, same place, same instructor, with additional graduate student requirements.

ACC 467, a graduate version of ACC 368 offered concurrently with ACC 368, same time, same place, same instructor, with additional graduate student requirements.

**7. Anticipated funding needs and source of funds.**

No new funding needs are anticipated. The three courses taught in this certificate are currently offered on a regular basis (every semester or every other semester). The fourth, an alternative, course is a new course.

**8. No Does this program count for teacher education?**

**9. The following questions must be answered.**

**N.A.** Have letter(s) of concurrence from affected departments/schools been obtained?

*A departments/school is affected if it has a program with significant overlap or if it teaches a required or elective course in the program.*

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**10. Routing and action summary for New Graduate Program:**

[Proposal Routing](#)

**1. Accounting Department Curriculum Committee Chair**

Jay Rich (website)

Signature

Jay Rich

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8/10/2018 11:03:55 AM

Date

**2. Accounting Department Chair/School Director**

Deborah Seifert (website)

Signature

Deborah Seifert

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Date

**3. College of Business College Curriculum Committee Chair**

Meredith Downes (website)

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Meredith Downes

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**4. College of Business College Dean**

Ajay Samant (website)

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Ajay Samant

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**5. Graduate Curriculum Committee Chair**

Robert Quinlan (website)

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Robert Quinlan

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Date

6. Director of Graduate School

Amy Hurd (website)  
Signature

Amy Hurd  
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Date

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**Comments on Proposal. (Required if proposal rejected)**

Academic Senate Approver

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