

ILLINOIS STATE UNIVERSITY REQUEST
FOR NEW PROGRAM APPROVAL
Financial Implication Form

Purpose: Proposed new undergraduate and graduate programs (degrees, sequences, minors, and certificates) must include information concerning how the program will be financially supported to proceed through the curricular process.

Procedure: This completed form is to be approved by the Department/School Curriculum Committee chair, department chair/school director, college dean, and Provost prior to submission of the proposal to the College Curriculum Committee.

Definition: A "program" can be a degree, a sequence within a degree, a minor, or a certificate. This form is to be used for both undergraduate and graduate programs.

Complete the following information:

Department: School of Information Technology

Contact person: Mary Elaine Califf

Date: 10/29/18

Proposed new program: Data Science Certificate

*Changed to "Data Science: Computer Science Graduate Certificate"
per Dr. Amy Hardy, Director of Graduate Studies, 11-8-18. Bus*

(Note: if the proposed program is a sequence, please indicate the full degree it is housed within)

BRIEF DESCRIPTION OF THE PROPOSED PROGRAM

The Data Science Graduate Certificate is a three-course program designed to provide students with an opportunity to deepen their knowledge and expertise in the targeted field of data science. The certificate involves training that provides the fundamental skills on the analyses of big data and their visualizations, together with predictive analyses using machine learning methods.

ENROLLMENTS

In the table below, summarize enrollment and degrees conferred projections for the program for the first- and fifth-years of operation. If possible, indicate the number of full-time and part-time students to be enrolled each fall term in the notes section. If it is not possible to provide fall enrollments or fall enrollments are not applicable to this program, please indicate so and give a short explanation.

TABLE 1

| STUDENT ENROLLMENT AND DEGREE PROJECTIONS FOR THE PROPOSED PROGRAM | | |
|---|-----------------|--|
| Category | Year One | 5th Year (or when fully implemented) |
| Number of Program Majors/Minors (Fall Headcount) | 6 | 12 |
| Annual Full-time-Equivalent Majors/Minors (Fiscal Year) | 2 | 4 |
| Annual Number of Degrees Awarded | 0 | 6 |

Add any relevant notes for the enrollment table 1 (Students are to be enrolled in a cohort; all students will be enrolled part-time; etc.) as an attachment

*Students are expected to be part-time in the certificate, though there may be exceptions.

Budget Rationale (as an attachment; include corresponding data in Table 2)

Provide financial data that document the department or school's capacity to implement and sustain the proposed program and describe the program's sources of funding.

- a. Is the unit's (College, Department, School) current operating budget (contractual, commodities, equipment, etc.) adequate to support the program when fully implemented? If "yes", please explain. If new resources are to be provided to the unit to support the program, what will be the source(s) of these funds? **[Table 2 – Section 1]**

The current operating budget is adequate. Current computing resources can be leveraged to support the Data Science certificate, which makes use of courses developed as part of the newly proposed MSCS program.

- b. What impact will the new program have on faculty assignments in the department? Will current faculty be adequate to provide instruction for the new program?

Will additional faculty need to be hired, either for the proposed program or for courses faculty of the new program would otherwise have taught? If yes, please indicate whether new faculty members will be full-time or part-time faculty, tenure track or non-tenure track faculty.

[Table 2 – Section 2]

The faculty proposed as part of the new MSCS program will be adequate to support the certificate.

- c. Will current staff be adequate to implement and maintain the new program? If "yes", please explain. Will additional staff be hired? Will current advising staff be adequate to provide student support and advisement, including job placement and or admission to advanced studies? If additional hires will be made, please elaborate. **[Table 2 – Section 2]**

The staff proposed as part of the new MSCS program will be adequate to support the certificate.

- d. Are the unit's current facilities adequate to support the program when fully implemented? Will there need to be facility renovation or new construction to house the program? (For a new degree program describe in detail the facilities and equipment available to maintain high quality in this program including buildings, classrooms, office space, laboratories, equipment and other instructional technologies for the program). **[Table 2 – Section 3]**

The facilities proposed as part of the new MSCS program will be adequate to support the certificate.

- e. Are library resources adequate to support the program when fully implemented? Please elaborate.

The library resources proposed as part of the new MSCS program will be adequate to support the certificate.

- f. Are there any additional costs not addressed in items a. – d.? If "yes" please explain.
[Table 2 – Section 4]

NO

- g. Are any sources of funding temporary (e.g., grant funding)? If so, how will the program be sustained once these funds are exhausted?

NO

- h. If this is a graduate program, discuss the intended use of graduate assistantships and where the funding for assistantships would come from.

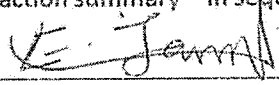
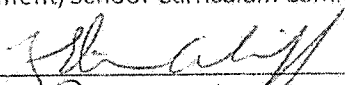
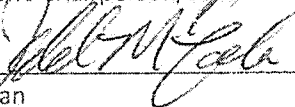
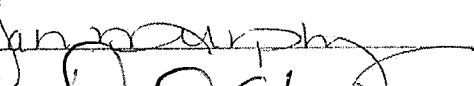
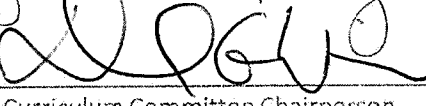
N/A

Table 2: RESOURCES REQUIREMENTS

TABLE 2

| ESTIMATED COSTS OF THE PROPOSED PROGRAM- Only new resources not currently available to the program | | | |
|--|---------------------|------------|---|
| Category | Unit of Measurement | Year One | 5 th Year (or when fully implemented) |
| Section 1: Operating Expenses | | | |
| Including but not limited to: Contractual, Commodities, Equipment, etc. | \$ | \$0 | \$0 |
| Section 2: Personnel | | | |
| Faculty | FTE | 0 | 0 |
| Faculty | \$ | \$0 | \$0 |
| Other Personnel Costs – All Staff excluding Faculty | \$ | \$0 | \$0 |
| Section 3: Facilities | | | |
| Including but not limited to rental, maintenance, etc. | \$ | \$0 | \$0 |
| Section 4: Other Costs (itemized) | | | |
| • | \$ | \$ | \$ |
| • | \$ | \$ | \$ |
| • | \$ | \$ | \$ |
| • | \$ | \$ | \$ |
| • | \$ | \$ | \$ |
| Total | \$ | \$0 | \$0 |

Routing and action summary – in sequential order:

| | | |
|----|---|---------------|
| 1. |  | 11/2/2018 |
| | Department/School Curriculum Committee Chair | Date Approved |
| 2. |  | 11/5/18 |
| | Department Chairperson/School Director | Date Approved |
| 3. |  | 11/6/18 |
| | College Dean | Date Approved |
| 4. |  | 11.8.18 |
| | Provost | Date Approved |
| 5. |  | 01/18/19 |
| | College Curriculum Committee Chairperson | Date Approved |
| 6. | | |
| | Teacher Education Council Chair | Date Approved |
| 7. | | |
| | University Curriculum Committee Chairperson | Date Approved |

Once approved, include this form with the curricular proposal for the new program.