

TO: James Toole, Chair, Senate Executive Committee
FROM: Vincent Maloney, Chair, Curriculum Review Subcommittee *Vincent Maloney*
DATE: November 25, 2019
SUBJECT: Department of General Studies

The Curriculum Review Subcommittee supports the proposal from the Department of General Studies for a Concentration in Information Systems for the Bachelor of Applied Science. We find that the proposal requires no Senate review.

Approving

Not Approving

Absent

Clare Cholewa
Seth Green
Teresa Hogg
Carol Lawton
Sarah LeBlanc
Haowen Luo
Vincent Maloney
Susan Skekloff
Jin Soung Yoo

Request for a New Major or Concentration

- I. Name of proposed major, or concentration
Bachelor of Applied Science with a Concentration in Information Systems
- II. Title of degree to be conferred
Bachelor of Applied Science
- III. Field of study, department, and college involved
Information Systems, General Studies, College of Arts and Sciences
- IV. Objectives of the proposed major or concentration
In addition to the learning outcomes associated with the [Bachelor of Applied Science degree program](#), the proposed concentration in Information Systems shares the following student learning outcomes of the [Certificate in Information Systems](#):
 - Have an excellent foundation development through programming with a high level language.
 - Understand the role of the Information Systems as used today (with the people, technology, and organizational components) including the globalization role.
 - Understand the fundamentals of Enterprise Systems and the issues associated with their implementation.
 - Understand the role of databases, and database management systems, in managing the organizational data and information.
 - Students will be prepared to assume job positions at the entry level of the information systems work in an organization or business.
- V. Proposed Date of Initiation
Fall 2020
- VI. Describe the relationship of the proposed major or concentration to the mission of the campus or the department
The proposed concentration is in an area of high demand in the region and the nation in general. Including the concentration in Information Systems will attract students with an interest in the technical and business aspects offered by Information Systems area. This effort is aligned with the interest of the Computer Science department in making our courses accessible to a broader audience and prepare the next generation of highly-skilled graduates that will be able to collect, analyze, and interpret data in today's high-paced knowledge economy.
- VII. Describe any relationship to existing programs within the campus
The proposed concentration has been developed in collaboration with the Information Systems program in the Department of Computer Science and is based on the Certificate in Information Systems. B.A.S. students with a concentration in Information Systems will also have the option of taking additional

courses in Information Systems and related fields to further support their academic and career goals.

- VIII. Describe any cooperative endeavors explored and/or intended with other institutions or organizations

No such efforts are currently planned.

- IX. Describe the need for the major or concentration

The Bachelor of Applied Science (B.A.S.) serves as a clear pathway for students who have earned Associate of Applied Science (A.A.S.) at a community college or other accredited institution to continue their education and earn a bachelor's degree. In fact, PFW is working to create articulation agreements with several community colleges in Michigan as a way to 1) provide additional pathways for A.A.S. students to earn B.A.S. degrees and 2) increase our enrollment on campus. The current B.A.S. offers prescribed concentrations in Business and Leadership and Supervision, and a flexible Interdisciplinary concentration that gives students the ability to design a curriculum that will meet their academic and career objectives. The proposed concentration in Information Systems will provide students who have earned an A.A.S. in a technical field to further their education and advance their career objectives by pursuing a bachelor's degree with a technical focus.

The certificate in Information Systems is an excellent foundation for individuals pursuing a career combining the technical and business aspects of Information Systems and Technology. To extend and deepen their preparation, beyond the certificate, the student will select two courses to further specialize in different areas:

- IST 34000 - Business Process Management: Ideal for those seeking a job as business analyst or any other position requiring an understanding of Business Processes.
- IST 46700 – Information Systems Project Management: For those interested in project management.
- IST 49200 – Special Topics in Information Systems: For those interested in pursuing the latest topics in IS. For example, recently topics in Business Analytics using R, Python for Data Science, and Penetration Testing were offered.

- X. Describe the resources required over and above current levels to implement the proposed major or concentration*

The proposed concentration is based on the existing Certificate in Information Systems, which is a fully-supported program on this campus. No additional resources will be required to support it.

- XI. A Liaison Library Memo

Please see attached.

- XII. Proposed curriculum

The proposed curriculum is based on the Certificate in Information Systems, with supporting Ethics, Communication, and Writing courses that are required across existing B.A.S. concentrations.

| Prefix | Number | Title | Credit Hours |
|--------|--------|--|--------------|
| IST | 16000 | Foundation and Role of Information Systems | 3 |
| IST | 14000 | Introduction to Visual Programming | 3 |
| IST | 20300 | Advanced Visual Programming | 3 |
| IST | 26500 | Enterprise Systems | 3 |
| IST | 27000 | Data and Information Management | 3 |

Choose two of the following courses:

| | | | |
|-----|-------|--|---|
| IST | 34000 | Business Process Management | 3 |
| IST | 46700 | Information Systems Project Management | 3 |
| IST | 49200 | Special Topics in Information Systems | 3 |

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| Prefix | Number | Title | Credit Hours |
|--------|--------|--|--------------|
| PHIL | 11100 | Introduction to Ethics | 3 |
| COM | 30300 | Intercultural Communication | 3 |
| | OR | | |
| COM | 32300 | Business and Professional Speaking | 3 |
| | OR | | |
| COM | 32400 | Introduction to Organizational Communication | 3 |
| ENGL | 23401 | Technical Report Writing | 3 |

(9)

Total: 30 credit hours



Liaison Librarian Memo

Date:

From:

To:

Re:

Describe availability of library resources to support proposed new program:

Comments:

Sarah Wagner

Liaison Librarian Signature

8-19-19

Date

When developing a new degree program, major, certificate, minor, concentration, track, or specialization please review the questions below when developing your response to the library or additional resources sections. Please consult your liaison librarian for assistance.

Information Systems - BAS

Library Resources

Address the following issues regarding the impact of the new program on the library's budget and personnel. Please respond to each item below indicating the library sources and services required to support the proposed program.

- Which databases/indexing sources will be used by the courses in this program?
 - IEEE Xplore
 - ACM Digital Library
 - Business Source Complete
 - Scopus

- What are the journals that will be used by students completing library research in this program? Please list three to five titles. Is there an expectation that access to new journals will need to be purchased for students in this program?

The following journal titles were selected based on their high impact factor in the disciplines related to information systems:

 - *MIS Quarterly: Management Information Systems*
 - *IEEE Transactions on Cybernetics*
 - *Information Systems Research*
 - *IEEE Transactions on Systems, Man, and Cybernetics: Systems*
 - *Journal of the Association of Information Systems*

With the exception of *Information Systems Research*, the journals listed above and others are covered in databases subscribed to by the library. *Information Systems Research* is also available, but the most recent five years are only indexed, not available in full-text. The library performs an annual review of journal titles and databases subscription to consider adding or discontinuing subscriptions. The library will need to consider maintaining these subscriptions in upcoming budget requests in order to retain the same level of support for the program.

- Are there any specific reference sources (e.g. encyclopedias, handbooks, standards, etc.) required to support the new program?

At this time, no new references sources will be required to support the new major. If the program grows significantly, the demand for additional materials may necessitate the need for an increase in the recurring materials budget to cover the cost of ongoing subscriptions.

- Is there an expectation for additional books to be purchased? What about DVD or audio/visual materials? What is the estimated dollar amount needed yearly to support this program with new books and media materials?

As the proposal is based primarily on existing courses, the current monograph budget should be adequate to keep the collection up-to-date.

- Will the new program use the Library's Document Delivery Services? Costs for this service come out of the Library's budget. What types of materials would the program be requesting through DDS?

The addition of the new major in information systems should not significantly impact Document Delivery Services.

- Who is the liaison librarian for this program? The liaison librarian provides support through involvement in Blackboard-supported classes, one-on-one research consultations, in-class instructional sessions, and tailored course guides for research assignments. Which of these librarian services do you anticipate will be utilized in the new program?

Sarah Wagner, wagners@pfw.edu, is the liaison librarian for this program. The liaison librarian will be able to provide all of the services listed above. New services may be added as recommended by the liaison librarian.

- Memo from Liaison Librarian regarding resources.

See Attached.

- Is there an accrediting body that will be overseeing this program? What are the statements of the accrediting body related to the library, e.g. holdings, personnel, services?

This program falls under the university's general accreditation from the Higher Learning Commission, for which the library has met accreditation standards in the past.