

TO: 2021-22 Senate Executive Committee  
FROM: Sarah S. LeBlanc, Chair, Curriculum Review Subcommittee  
DATE: November 22, 2021  
SUBJECT: Bachelor of Applied Science with a Concentration in Construction Management

The Curriculum Review Subcommittee supports the proposal from the Unit of Affiliated Programs, specifically General Studies, for their proposed Bachelor of Applied Science with a Concentration in Construction Management. We find that the proposal requires no Senate review.

Approving

Laurel Campbell

Behin Elahi

Teresa Hogg

Shannon Johnson

Sarah LeBlanc

Not Approving

Absent

Jaiyanth Daniel (sabbatical)

Haowen Luo (Parental Leave)

Terri Swim, exofficio (non-voting member)

## Degree/Certificate/Major/Minor/Concentration Cover Sheet

Date:

Institution: Purdue

Campus: Fort Wayne

School or College:

Department:

Location:                      80% or more online: Yes      No

County:

Type:

Program name:

Graduate/Undergraduate:

Degree Code:

Brief Description:

Rationale for new or terminated program:

CIP Code:

Name of Person who Submitted Proposal:

Contact Information (phone or email):

## Request for a New Major or Concentration

I. Name of proposed major, or concentration

Bachelor of Applied Science with a Concentration in Construction Management

II. Title of degree to be conferred

Bachelor of Applied Science

III. Field of study, department, and college involved

General Studies, Unit of Affiliated Programs

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 Construction Management has the following student learning outcomes.

- apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
- design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
- apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and function effectively as a member as well as a leader on technical teams

V. Proposed Date of Initiation

Fall 2022

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 demand in the region and the nation in general. Including the concentration in Construction Management will attract students with an interest in the technical and business aspects offered by this area. This effort is aligned with the interest of the School of Polytechnic Construction Management program 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 College of Engineering Technology and Computer Science. BAS students with a concentration in Construction Management will also have the option of taking additional courses in the discipline 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. PFW has created a number of articulation agreements with several community colleges as a way to increase opportunities to earn a bachelor degree as well as increase enrollments. Currently the BAS degree offers prescribed concentrations that gives students the ability to design a curriculum that will meet their academic and career objectives. The proposed concentration in Construction Management 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 degree with a technical focus and advanced skill level.

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

The proposed concentration is based on the Bachelor of Science in Construction Management which is fully supported program on this campus. No additional resources will be required to support it.

XI. A Liaison Library Memo

See attached.

XII. Proposed curriculum

The proposed curriculum is based on courses required in the major in Construction Management with a supporting writing course that is required of all BAS concentrations.

**Construction Management Concentration 30 credit hours**

<b><u>PREFIX</u></b>	<b><u>TITLE</u></b>	<b><u>CREDIT HOURS</u></b>
ARET 12300	Digital Graphics For Built Environment I	3
CM 16700	Construction Systems and Materials	3
CM 17600	Construction Specifications and Contracts	3
CM 22000	Commercial Construction and Codes	3
CM 28100	Environmental Equipment for Buildings I	3
CM 32400	Sustainable Construction	3
CM 44200	Cost Estimating	3
CM 44500	Construction Project Management	3
CM 45700	Construction Safety	3
Choose one of the following:		3
ENG 23301	Intermediate Expository Writing	
ENG 23401	Technical Report Writing	
	Total	30 credit hours

***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.***

## **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?
  - ACM Digital Library
  - IEEE Xplore
  - ASTM Compass
  - Science Direct
  - Compendex
  - Scopus
  - Business Source Complete
  - Academic Search Premier
  
- 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 construction management.

- *Journal of Structural Engineering*
- *Journal of Construction Engineering and management*
- *Journal of Composites for Construction*
- *Journal of Materials in Civil Engineering*

The journals listed above and others related to construction management are covered in databases subscribed to by the library. 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 concentration. The primary reference source likely to be used by this concentration are the ASTM standards, which are included in the library's subscription to the database ASTM Compass. The addition of this concentration does underscore the need to maintain this subscription.

- 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?

This concentration includes existing courses in digital graphics, construction systems and materials, sustainable construction, project management and safety, among others. These areas are currently cover through existing collection development for the School of Polytechnic and unless usage increases significantly, no additional is anticipated.

- 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 concentration 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](mailto: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 document.

- 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?

While this concentration is not with the College of ETCS, separately the Polytechnic programs are accredited by ABET.

## Liaison Librarian Memo

Date:

From:

To:

Re:

Describe availability of library resources to support proposed new program:

Comments:

---

*Sarah Wagner* *6-25-2021*  
*Liaison Librarian Signature* *Date*