

A.A. in Computer Science (60 hours) for the BU-X program

Introduction

This proposal is to develop an Associated of Arts degree in Computer Science for the BU-X program. It will create the program using existing courses and allow the BU-X student to take the CSC courses synchronously via zoom with the onsite traditional zoom. So no additional resources will be needed.

Purpose

Because computing is a discipline with high paying jobs at all levels, the MECS department purposes this degree for the BU-X students. It will allow these students to start their career in a high demand field or to pursue their Bachelor's degree on campus after two years.

It seeks to provide this opportunity to these students without requiring additional resources by allowing the students to take the courses with the onsite traditional students. This style of teaching has already been successfully piloted with Huntington students.

Consistency with Vision and Mission

This proposal seeks to advance the mission of Bethel by providing another quality option for the BU-X students.

Implications and effects

This program will work with the online cyber security and ITSC courses to convert them to 14 weeks courses. This will help these courses and traditional students by:

- a) Allowing time for more feedback in the courses that need it
- b) Allow for better scheduling for the traditional students.

Because the Cyber Security B.S. degree is being dropped, this change will not cause any problems to those students and will only impact the BU-X and traditional students.

No other programs are being impacted.

Data Support

- 1) Other schools: While this is in competition with degrees found at Ivy Tech and other similar community colleges, it is aimed specifically for the BU-X students which may be from other states. It provides these students with the opportunity to receive a A.A. degree in computing that has a Christian world view.
- 2) Market for the program: The computing industry will accept new hires who have the skill level from a few courses all the way up to a Ph.D. The demand for workers is extremely high. This program will prepare students to start their career at a level above those with just a few courses. It also will allow them to be ready to finish a bachelor's degree in the field in just two years.
- 3) Ideal student: The ideal student would be someone that likes to solve problems and is comfortable using technology
- 4) This program reflects the demands of industry and has been approved by our industry advisory board.

Resources required

Because this program will be using equipment that is being installed to support the sharing of classes with Huntington students, no additional equipment is needed. It is also only using existing computing courses that are not full so it will require no new instructors or additional sections. It will only use existing available spaces in courses that are already being taught.

Since most of the technology being used for the computing courses is being ported to the cloud, there should not be any additional demands of the help desk beyond that of any regular student.

The teaching of the courses will not vary from what is being taught for the onsite traditional students.

Implementation process

This degree will be available for student enrollment starting Fall of 2023 if not by Spring of 2023.

The BU-X staff will be marketing the program and recruiting the students.

Assessment plans

Assessment of this program will be done in conjunction with the assessment of the CSC courses and an alumni survey.

Course Information

no new courses

Degree Information:

CSC/Cyber courses

CSC 112: Digital Citizen of the 21st Century (3 hours)

CSC 121: Programming 1 (3 hours)

CSC 121: Programming 2 (3 hours)

CSC 210: Database (3 hours)

CSC 230: Networks (3 hours)

CSC 261: SDL: Web Programming (3 hours)

CSC 310: Introduction to Cloud Computing (3 hours)

One Cyber course

CSC 398: Internship (3 hours)

Total: 27 hours

6 hours of electives

Bethel Core

Communication Skills (6 credits)

ENGL 101	Written Communication II	3
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	Communications/Speech	3
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Humanities (3 credits)

	Literature or Fine Arts	3
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Diversity and Global Awareness (3 credits)

COMM 352	Intercultural Communication	3
LANG 101	Introduction to the Study of Language	3
	Foreign Language	3
Social Science (6 credits)		
	PSYC, SOC, ECON, HIST, SS, APOL	6
Natural Science/Math (3 credits)		
MATH 107	Algebraic Modeling with Trigonometry	3
MATH 109	Excursions in Math	3
	Higher level MATH	3
Religion/Philosophy (6 credits)		
THEO 110	Exploring the Christian Faith	3
BIBL 215	Old Testament Literature	3
BIBL 216	New Testament Literature	3
Total Credit Hours:		27