

Program Review Form

Date: January 1, 2020

Program Review Year: 2020-2023

Name of Program Being Reviewed: AS in Business Technology

Degrees Covered by Review: AS in Business Technology

Name of Department: Arts and Sciences

Department Chair: Dr. Hawkins

Program Coordinator: Dr. Deel

Note: Pages 1-4 are to be completed yearly by each program. Pages 1-5 are to be completed according to the Cycle of Curricular Review

Mission of the College

The mission of Free Will Baptist Bible College is to educate leaders to serve Christ, His Church, and His world through Biblical thought and life.

Strategic Initiative (from the strategic plan)

Strategic Initiative #1 – Integrating a Christian worldview.

The College will develop policies, programs, and activities which will enable students to develop a worldview that integrates the Christian faith with the academic disciplines in the whole of life.

Strategic Objective (from the strategic plan)

Strategic Objective 1.1 – Develop curricula that integrates the Christian worldview throughout all programs of study.

Program Objectives (from the College Catalog)

- (1) Demonstrate Christian principles, values, and responsible stewardship in life and work; and
- (2) Demonstrate appropriate skills in computer programming, networking, using windows and unix systems, building and designing software projects.

Program Objectives link to Institutional Purpose/General Objectives of the College

The following college general objectives as per the catalog are directly linked to the program goals:

1. A Christian worldview, manifested in an awareness of its implications for thought and life.
2. An informed mind, manifested in critical thinking and intellectual honesty.
3. The knowledge and skills needed to function effectively in one's chosen vocation.

These college objectives are met in our program objectives by giving our students the tools and understanding to be competent in the field of biology, as well as to think critically with a Christian worldview, and to apply this knowledge in the career path of choice.

Program Objectives link to Departmental Objectives

The Department of Arts and Sciences aims to broaden and deepen the student's general education, enhance their position as citizens and servants in the world, cultivate Christian culture, develop refinement and enhance social skills. The ASCS program will expand upon these goals in the rapidly growing area of Computer Science by a broad introduction to the field of computer science with the appropriate depth for the student to complete a Bachelor's degree with additional coursework.

The following high-level objectives should be achieved:

- Demonstrated ability to organize a computer problem using logical methods
- Demonstrated ability to utilize 3rd and 4th generation language in problem solving
- Demonstrated ability to understand and utilize computer hardware and systems software
- Demonstrated ability to utilize abstract data types and measure their complexity
- Demonstrated ability to document software solutions and to select appropriate object-oriented design patterns
- Demonstrated ability to communicate and collaborate within a software teaming environment

Courses Aimed to Accomplish Specific Program Objectives

Program Objective	Courses
<p>Demonstrate Christian principles, values, and responsible stewardship in life and work</p>	<p>BIB 1100. Introduction to Biblical Studies, 2 BIB 1250. Evangelism and Discipleship, 2 BIB 1011, 1031, 2032, 2062. Bible Survey, 10 IDS 1920. Christianity, Culture, and Worldview, 2 ENG 1011, 1022. Basic English Grammar, Usage, and Composition I, II, 6 HIS 1011, 1022. History of Western Civilization, 6 IDS 1001, 2001. Leadership and Calling, 4 MAT 1101. College Algebra (or higher), 3 PHE 2100. Lifetime Fitness, 2 SPE 1000. Fundamentals of Speech, 3 SSC 3101. Marriage and the Family, 3</p>
<p>Demonstrate appropriate skills in computer programming, networking, using windows and unix systems, building and designing software projects.</p>	<p>CPS 1120. Introduction to Computer Science, 3 CPS 1122. Computer Science I, 3 MAT2301. Discrete Math, 4 CPS 2171. Introduction to Computer Architecture, 3 CPS 2111. Computer Science II: Data Structures, 3 CPS 2212. Object Oriented Programming, 3 CPS 3602. Introduction to Operating Systems, 3</p>

Program Review: Assessment

Program Objective	Means of Assessment	Strategic Objective/Goal	Results (2019-2020)
What we want to do (general)	How we will know if we did it	Specific Goals	What actually happened
Demonstrated ability to organize a computer problem using logical methods	Creation, debugging, testing and running of software demonstrating logical methodology In-course and end of course examinations In-course programming assignments	100% of students will demonstrate proficiency in logical methodology	100% of students met this goal as documented in 14 course assignments and in the course examination. Will continue to monitor.
Demonstrated ability to utilize 3rd and 4th generation language in problem solving	Creation, debugging, testing and running of 3 rd + generation language software demonstrating problem solving In-course and end of course examinations In-course programming assignments	100% of students will demonstrate proficiency in logical methodology	100% of students met this goal as documented in 8 specific computer science assignments and in the course exam. Will continue to monitor.
Demonstrated ability to understand and utilize computer hardware and systems software	Creation, debugging, testing and running hardware/software interface In-course and end of course examinations In-course programming assignments	95% of students will demonstrate proficiency in logical methodology	50% of students met this goal as documented in ten specific course assignments and in the course exam. Will continue to monitor.
Demonstrated ability to utilize abstract data types and measure their complexity	In-course and end of course examinations In-course programming assignments	95% of students will demonstrate proficiency in logical methodology	100% of students met this goal as documented in two specific course assignments and demonstrated in the course exam. Will continue to monitor.
Demonstrated ability to document software solutions and to select appropriate object-oriented design patterns	In-course and end of course examinations In-course programming assignments	100% of students will demonstrate proficiency in logical methodology	Not yet measured. This course has yet to be taught.
Demonstrated ability to communicate and collaborate within a software teaming environment	In-course and end of course examinations In-course programming assignments	95% of students will demonstrate proficiency in logical methodology	Not yet measured. This course has yet to be taught.

Program Review: Use of Results

Strategic Objective/Goal	Results 2019-2020	Use of Results 2020-2021	Results Revisited 2021-2022
What we wanted to happen	What actually happened	What we did to improve	How did this affect later assessments?
100% of students will demonstrate proficiency in logical methodology	100% of students met this goal as documented in the course examination. Continue to monitor.		
100% of students will demonstrate proficiency in logical methodology	100% of students met this goal as documented in 8 specific computer science assignments and in the course exam. Will continue to monitor.		
95% of students will demonstrate proficiency in logical methodology	50% of students met this goal as documented in ten specific course assignments and in the course exam. Will continue to monitor.		
95% of students will demonstrate proficiency in logical methodology	100% of students met this goal as documented in two specific course assignments and demonstrated in the course exam. Continue to monitor.		
100% of students will demonstrate proficiency in logical methodology	Not yet measured. This course has yet to be taught.		
95% of students will demonstrate proficiency in logical methodology	Not yet measured. This course has yet to be taught.		

Note: This page is to be completed only in years of a complete program review according to the Cycle of Curricular Assessment.

Program Review: Comparison with Other Similar Programs

This section should compare our program with other similar programs at like-minded institutions. Attention should be given to total credit hours in a degree program, courses in a program, course content, and program objectives. The chair should list the number of programs reviewed and the colleges/universities that house these programs. The chair should note similarities and differences and provide some explanation (personnel, mission, or fiscal) to explain significant differences. The department may wish to make adjustments to the program based on such an analysis. Adjustments will usually be subject to faculty approval, Board approval, and approval by accrediting agencies before they can be implemented.

Program Review: Analysis of Graduate School/Vocational Requirements

This section should review entrance requirements and expected competencies for graduate schools that a graduate of your program might be expected to pursue or vocational competencies a graduate in the field would be expected to have according to industry norms. The chair should list the number of programs reviewed and the colleges/universities that house these programs or the industry standard guides used to determine competencies. Attention should be directed toward schools and employment sectors common to the College's graduates. The chair should note strengths and any significant omissions and provide some explanation (personnel, mission, or fiscal) to explain significant differences. The department may wish to make adjustments to the program based on such an analysis. Any adjustments should be explained and forwarded to the Curriculum and Catalog Committee. Adjustments will usually be subject to faculty approval, Board approval, and approval by accrediting agencies before they can be implemented.