*Note before completing this proposal that all core courses for a new program or certificate must have already been reviewed (or submitted for the same meeting) by the Curriculum Committee and approved by the Provost and Vice President of Academic Affairs. In addition, the complete catalog page must be included at the end of this document.*

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| **School or Division** | School of Business and Technology |
| **Proposed by (faculty only)** | Andrew Blitz |
| **Presenter (faculty only)** | Andrew Blitz |
| Note that the presenter (faculty) listed above must be present at the Curriculum Committee meeting or the proposal will be returned to the School or Division and must be submitted for a later date. |
| **Submission date** | 1/8/2016 |

**Section I, New Program or Certificate Information (must complete all items)**

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| **List new program or certificate** | BAS, Information Systems Technology |
| **Describe (below) the process by which the need for the new program or certificate was identified** |
| The need for this program is determined largely by the large existing skills gap in the existing regional workforce and the fact that other institutions of higher education in FSW’s service area are not producing sufficient graduates to close the gap. |
| **Project (below) average enrollment for core courses** |
| Initial enrollment of between 15 and 25, growing to 35-50 students per class per term. |
| **Describe (below) how this projection was determined** |
| Based on averages in the two existing BAS degree programs in SoBT. |
| **List (below) similar programs or certificates at other colleges and universities** |
| Seminole State College: BS, Information Systems TechnologySanta Fe State College: BAS, Information Systems Technology |

**Section II, Personnel and Resources Needed** (add rows if necessary)

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| **Faculty position(s) (List discipline)** | **Full time or adjunct?** | **Total annual expenses** |
| Dr. James Stewart | FT | $10,692 |
| Dr. Deborah Johnson | FT | $10,692 |
| Prof. Andrew Blitz | FT | $9,648 |
| Prof. Vincent Butler | FT | $9,648 |
| Prof. James Barrell | FT | $9,648 |
| Prof. Linda Hanwacker | Adj | $9,000 |
| Prof. Scott Hammond | Adj | $9,000 |
|  |  |  |
| **Staff position(s) (List title)** | **Full time or part time?** | **Total annual expenses** |
| No additional staff required |  | N/A |
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| **Describe (below) library resources needed to support this program or certificate. Explain rationale for response, even if answer is none** |
| No additional resources anticipated. This degree focuses on Information Technology and Business concepts and topics and library resources in these two areas are currently adequate to support this degree. |
| **Describe (below) the technology, facilities, laboratory, or other resources needed to support this program or certificate** |
| The faculty and administration anticipate that existing computer laboratory, hardware, and software assets are sufficient to support the demands of this proposed program. |
| **List (below) the estimated annual amount required for educational materials and supplies or other operating expenses for implementation of the new program or certificate** |
| Anticipated first year expenses are not expected to exceed $6,000 and that amount is available in existing SoBT funds. Future years’ expenses will be sustained by lab fees. |
| **Identify (below) the funding source to be used for personnel and operating expenses** |
| Personnel fees are calculated as FT overload and adjunct salaries using existing faculty. It is anticipated that tuition revenues will cover these costs. |

**Section III,Justification for proposal**

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| **Provide justification (below) for this proposed curriculum action** |
| According to the Department of Economic Opportunity, Florida SouthWestern State College’s service area will need approximately 203 employees per year in positions between 2015 and 2022 in its growing technology occupations. Currently, Florida Gulf Coast University and Hodges University graduate an average of 28 students annually, which leaves a range of 168 to 175 graduates per year needed to meet the unmet need for technology professionals.*Workforce Now* (2013) states that IT positions are one of the top employment gaps at three large companies in the area, Arthrex, Chico’s and Lee Memorial Health Systems.*Workforce Now* also published two other papers in 2014, one being the *Annual Workforce Overview Study* and the other being a study entitled *IT Employment in Southwest Florida: Opportunities and Challenges*. The major findings in the annual overview related to training and employment in the information technology arena included significant employment gaps in Computer Systems Analysts (51 unfilled positions at a median wage of $40.62/hr.), Web Developers (26 unfilled positions at a median wage of $26.23/hr.), and a total employment gaps of 102 unfilled information technology positions relating to training supplied by this proposed degree. In addition, Computer Network Architects (median wage of $31.69/hr.) were identified and being in the top 11-20 occupations for 2013-2021, requiring a baccalaureate degree.Among the major findings in the IT-specific study, 32% of regional employers surveyed reported difficulty in filling information technology positions. Paramount among these are those addressed by this degree including computer programmers, wireless and mobility services, database administrators, systems analysis, and information security. Lastly, 42% of the employers surveyed indicated a preference for IT employees to hold a baccalaureate degree.All of the labor force information above is also consistent with the current *Demand Occupations List* published for Region 24, the region that FSW serves. |

**Section IV, Important Dates and Endorsements Required**

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| **List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).** |
| Andrew BlitzDeborah JohnsonVincent ButlerJames StewartJames Barrell |

**nOTE:**Changes for the Fall 2016term must be submitted to the Dropbox by the February 5, 2016 deadline and approved no later than the March 4, 2016 Curriculum Committee meeting. Changes during mid-school year are NOT permitted. Extreme circumstances will require approval from the appropriate Dean or Associate Vice President as well as the Provost and Vice President of Academic Affairs to begin in either theSpring2016 or Summer 2016 term.

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| **Term in which approved action will take place** | Fall 2016 |

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| **Required Endorsements** | **Type in Name** | **Select Date** |
| **Department Chair or Program Coordinator/Director** | Andrew Blitz | 1/6/2016 |
| **Academic Dean or Associate Vice President** | Dr. John Meyer | 1/8/2016 |

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| **Select Curriculum Committee Meeting Date** | February 5, 2016 |

Completed curriculum proposals must be uploaded to Dropbox by the deadline. Please refer to the *Curriculum Committee Calendar* document available in the document manager in the FSW Portal:

* Document Manager
* VP Academic Affairs
* Curriculum Process Documents

**Important Note to Faculty, Department Chairs or Program Coordinators, and Deans or an Associate Vice President:**

Incomplete proposals or proposals requiring corrections will be returned to the School or Division. If a proposal is incomplete or requires multiple corrections, the proposal will need to be completed or corrected and **resubmitted to the Dropbox for the next Curriculum Committee meeting**. All Curriculum proposals require approval of the Provost and Vice President of Academic Affairs. Final approval or denial of a proposal is reflected on the completed and signed Summary Report.

***Include complete new catalog page below.***

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| Florida SouthWestern State College |
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| **Information Systems Technology, BAS**[Print this page.Print this Page](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=340&returnto=463&print) |
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**Purpose**The Bachelor of Applied Science in Information Systems Technology program is designed to prepare graduates for higher level employment in information technology management in areas such as systems programming, systems design and architecture, network security, and help desk support services. The program also provides the professional development necessary to help meet the growing regional demand for skilled information technology workers in southwest Florida. This degree is specifically designed to provide a career and educational pathway particularly for graduates from Florida SouthWestern State College’s Associate in Science in Computer Programming and Analysis and/or the Associate in Science in Network Systems Technology.**Program Structure**The BAS in Information Systems Technology program includes courses in information systems management, computer programming, computer networking, information security, e-commerce, mobile application development, and business. Elective choices include additional courses in management, information technology, and entrepreneurship, and marketing. Courses are offered in online or blended formats, with many courses offered in an accelerated eight-week fashion, to accommodate students’ various schedules and learning preferences.* **Degree Requirements:** 120 Credit Hours
* **General Education Core Requirements:** minimum of 36 Credit Hours
* **Additional Lower Division Program Requirements:** minimum of 36 Credit Hours
* **Baccalaureate Program Requirements:** 48 Credit Hours

**Admission Requirements**1. Applicants must apply for admission and be accepted to Florida SouthWestern State College. Official transcripts from all previously attended colleges or universities must be sent directly to the Office of the Registrar.
2. Applicants must have a minimum cumulative grade point average of 2.0 on a 4.0 scale.
3. Applicants must have earned an:Associate in Science degree in Computer Programming from any regionally accredited college or university, as defined by State Board of Education rule, with a minimum of 60 credit hours,**OR**
4. Associate in Science degree in a discipline other than Computer Programmingfrom any regionally accredited college or university, as defined by State Board of Education rule, with a minimum of 60 credit hours\*,Associate in Arts degree, which includes the completion of the State of Florida General Education Core Requirements\*.
5. Students with a minimum of 60 hours, with all general education and prerequisite courses completed, may also apply for admission\*.

\*Students who do not hold an Associate in Science in Computer programming must complete the following coursework before enrolling in upper level Core classes (these courses may be used to satisfy elective requirements):COP 1000, Introduction to Computer Programming COP 1822, Internet Programming HTMLCNT 1000, Computer Networking EssentialsCNT 1512, Wireless Network AdministrationCGS 2108, Computer Applications with Flowcharting **OR** CGS 1100, Computer Applications for BusinessCOP 2800, Java ProgrammingCOP 2823, Advanced Web Development **OR** COP 2830, Internet Programming HTML II6 credits of a programming language sequence in Visual Basic, C++, or C#Students may demonstrate proficiency in some or all of the above coursework by presenting proof of current and appropriate industry certification according to FSW’s most current*Gold Standard* list. Articulation credit may also be awarded for some or all of these industry certifications subject to individual evaluation.1. Students are encouraged to apply for admission during the term in which they will complete their Associate degree program.
2. Applicants not meeting stated admission criteria may petition for program admittance if they feel there are mitigating circumstances. Applicants must submit an official petition form to the Office of the Admissions.

**Requirements to Enroll in Baccalaureate (3000 or 4000) Courses**1. Upon admission to the BAS program, students must attend a required orientation session prior to enrollment in baccalaureate courses.
2. Students must complete [ENC 1101 - Composition I](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=340&returnto=463&print#tt4878), [ENC 1102 - Composition II](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=340&returnto=463&print#tt2970), and three credit hours of approved mathematics prior to enrollment in any baccalaureate courses (3000 or 4000 level) with a grade of C or higher. **(Refer to the FSW**[**General Education Program Guide**](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=338)**)**
3. Students must complete [MAN 2021 - Management Principles](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=340&returnto=463&print#tt9163), during the **first term** of enrollment if not previously completed.
4. Students must meet program criteria, defined below, prior to enrollment in CIS 4891- Senior Capstone Project -Strategic Management Capstone. CIS 4891 must be completed through Florida SouthWestern State College and is not eligible for cross-enrollment.
5. Cross-enrollment approval: Baccalaureate degree seeking students must obtain prior approval to cross enroll (as a transient student) in courses intended to fulfill baccalaureate program requirements. Approval will be determined by the appropriate dean in collaboration with program faculty. Students initiate this process using Florida Virtual Campus:[www.floridashines.org/](http://www.flvc.org/).
6. Students who have not fulfilled the State of Florida general education core requirements must complete them. Students who transfer to Florida SouthWestern State College with a previous Associate in Arts degree from a Florida community college or Baccalaureate degree from a regionally accredited institution are considered to have met the General Education component of the degree. Students are permitted to complete remaining general education courses while enrolled in the BAS program. However, prior to enrollment in CIS 4891 - Senior Capstone Project, students must have all general education courses completed.
7. Students who have previously earned an Associate in Arts or a Baccalaureate degree from a college or university outside the State of Florida will be reviewed on a case-by-case basis to determine which courses will meet the 36 hour General Education Requirements.  Students must have earned equivalent credit hours in each General Education category (i.e., 6 hours of Humanities, 9 hours of Social Sciences, etc.).
8. Students are permitted to complete remaining general education courses while enrolled in the BAS program. However, prior to enrollment in CIS 4891 - Senior Capstone Project, students must have all general education courses completed.

**Graduation Requirements**1. Students must satisfactorily complete 120 credit hours to be eligible for graduation. For residency purposes, a minimum of 30 program credit hours required for graduation (at least 15 of which must be at the 3000-4000 level and must include CIS 4891) must be completed at Florida SouthWestern State College. All other specific degree requirements must also be met. Credit awarded for Developmental Studies instruction may not be applied toward the total number of credits required for residency purposes or graduation.
2. Students must complete the State of Florida General Education Core Requirements, including any assessment of General Education outcomes that are required by the College. Transfer courses will be reviewed for equivalency. Students who transfer to Florida SouthWestern State College with a previous Associate in Arts degree from a Florida College or baccalaureate degree from a regionally accredited institution are considered to have met the General Education component of the degree.
3. The Foreign Language Competency Requirement may be met by:
	* 2 years of the same High School Foreign Language, or
	* 2 semesters of the same College Level Foreign Language (level II proficiency), or
	* Documented foreign language proficiency through testing (for example, CLEP)
4. Students must fulfill all requirements of their program major.
5. Students must achieve a cumulative grade point average of 2.0 or higher on a 4.0 scale.
6. Students must earn a grade of C or higher in all baccalaureate (3000 or 4000 level) program requirements.
7. Students must successfully complete the Capstone Post Course Exit Exam (minimum grade of 70%) as part of the fulfillment of the graduation requirement.
8. Students must complete an application for graduation through the Office of the Registrar and enroll in the GRD 4000 course the semester in which they intend to graduate. Students must apply for graduation ***by the published deadline*** to be assured of final clearance for graduation, timely receipt of their diploma, and participation in the commencement ceremony.

***Many courses require prerequisites.*** Check the description of each course in the list below to check for prerequisites, minimum grade requirements, and other restrictions related to the course. Students must complete all prerequisites for a course prior to registering for it. |
| **General Education Courses: 36 Credits****Refer to the FSW**[**General Education Program Guide**](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=338)**COMMUNICATIONS CATEGORY: 9 Credits Required****Required Core Communication General Education Courses*** [ENC 1101 - Composition I](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=340&returnto=463&print) **3 credits** , writing intensive - must complete with a “C” or better
* [ENC 1102 - Composition II](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=340&returnto=463&print) **3 credits** , writing intensive - must complete with a “C” or better
* SPC 1017 - Fundamentals of Speech Communication **OR** SPC 2608 – Introduction to Public Speaking    - **3 credits**

**HUMANITIES CATEGORY: 6 Credits Required*** Core Humanities General Education Course **3 credits,** writing intensive
* PHI 2100 – Introduction to Logic (recommended) **OR** PHI 2103 – Critical Thinking **OR** PHI 2600 – Ethics - **3 credits**

**SOCIAL SCIENCES CATEGORY: 9 Credits Required*** Writing Intensive Social Sciences course, must pass with a “C” or better   - **3 credits**
* PSY 2012 – Introduction to Psychology - **3 credits**
* ECO 2013 – Principles of Macroeconomics - **3 credits**

**MATHEMATICS CATEGORY: 6 Credits Required*** STA 2023 – Statistical Methods  - **3 credits**
* MAC 1140 – Pre-Calculus Algebra  - **3 credits**

**NATURAL SCIENCES CATEGORY: 6 Credits Required*** Core Natural Sciences General Education course with corresponding laboratory   - **3 credits**
* Any Natural Sciences General Education course with corresponding laboratory   - **3 credits**

**Additional Lower Division Program Requirements: minimum of 36 Credit Hours**CNT 1000, Computer Networking Essentials **3 credits \*\***CNT 1512, Wireless Network Administration **3 credits \*\***COP 1000, Introduction to Computer Programming **3 credits \*\***COP 1822, Internet Programming HTML **3 credits \*\***CGS 2108, Computer Applications with Flowcharting OR CGS 1100, Computer Applications for Business **3 credits \*\***COP 2800, Java Programming **3 credits \*\***COP 2823, Advanced Web Development **OR** COP 2830, Internet Programming HTML II **3 credits \*\***A programming language sequence in either Visual Basic, C++, or C# **6 credits \*\***MAN 2021, Management Principles **3 credits** \*MAN 2582 – Principles or Project Management **OR** CTS 2142 Introduction to Project Management **3 credits \*\*** 3 credit hours of any elective in a 1000-4999 course.Students who are transferring one or more of the above courses may choose their electives from any 1000-4999 course.\*Must be completed within the first term of enrollment if not completed prior to admission\*\*Must be completed before enrolling in upper level Core classes. Articulation credit may be awarded for some or all of this coursework if the student holds current industry certifications (subject to individual evaluation).**Baccalaureate Core Program Requirements: 48 Credit Hours*** CET 4505 – Computer Operating Systems **3 credits**
* COP 3012 - Advanced C++ Programming **3 credits**
* COP 3337 - Intermediate Programming C++ **3 credits**
* COP 3655 – Application Development for Mobile Devices **3 credits**
* COP 4813 – Web Applications Programming **3 credits**
* CGS 4183 – Web Design for E-Commerce **3 credits**
* CIS 4891 – Senior Capstone Project **3 credits\***
* CNT 3504 – Computer Networks and Distributed Processing **3 credits**
* CNT 4515 - Wireless Networks and Portable Devices **3 credits**
* CNT 4524 – Mobile Security **3 credits**
* CTS 4408 – Database Administration **3 credits**
* ISM 3113 – Information Systems Analysis and Design **3 credits**
* ISM 3220 – Network Management for Information Professionals **3 credits**
* ISM 4323 – Information Security Policy Administration **3 credits**
* ISM 4480 – Principles of Electronic Commerce **3 credits**
* MAN 3504 – Operations and Supply Chain Management **3 credits**
*

\*CIS 4891 Senior Capstone Project, required final course, must be taken in the last semester and must be completed at Florida SouthWestern State College. It is strongly recommended to be taken with no more than one other course from the degree core list above. **Total Degree Requirements: 120 Credit Hours****Information is available online at:** [**www.fsw.edu/academics**](http://www.fsw.edu/academics) **or on the School of Business and Technology Home Page at:** [**www.fsw.edu/sobt**](http://www.fsw.edu/sobt)**.** |

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