***Note required information:*** *Program or certificate changes require a change to the catalog page. All change of program or certificate proposals must include the new catalog page, with all proposed changes, at the end of this document. All changes that affect the courses, words, numbers, symbols, program description, admissions requirements, and graduation requirements as presented in the 2014-2015 catalog must be documented. Note before completing this proposal that all new courses and current prerequisite, corequisite, core, or elective courses changes 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. The Track Changes feature in Word must be used to illustrate all changes to the catalog page.*

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| --- | --- |
| **School or Division** | School of Business and Technology |
| **Program or Certificate** | AS, Computer Programming and Analysis |
| **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 be resubmitted for a later date. |
| **Submission date** | 11/30/2015 |

**Section I, Proposed Changes**

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| **Change of School, Division, or Department** | No Change |
| **Change to program or certificate name** | No Change |
| **List below, any changes to the program or certificate prerequisites. Include course titles and credits if applicable.** |
| Up dated State Frameworks do not list any of the CNT 1000 Learning Outcomes |
| **List below, any changes to the General Education requirements. Include course titles and credits if applicable.** |
| No Change |
| **List below, any changes to the program or certificate Core requirements. Include course titles and credits if applicable.** |
| Delete CNT 1000 Computer Networking Essentials  |
| **List below, any changes to the program or certificate Elective requirements. Include course titles and credits if applicable.** |
| Any COP, CGS, CTS, CNT, CIS, or CAP prefix course at the 1000 or 2000 level. |
| **List below, any other changes to the program or certificate requirements.**  |
| No Other Changes  |
| **Change to program length (credits or clock hours to complete)** | N/A |

**Section II, Justification for proposal**

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| **Provide justification (below) for each change on this proposed curriculum action** |
| Updated AS Computer Programming and Analysis State Framework does not require any of the CNT 1000 Computer Networking Essentials Learning Outcomes. Faculty voted to remove the CNT 1000 course requirement for this program. |

**Section III, 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 BlitzVincent ButlerJames Stewart |

**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 | 11/30/2015 |
| **Academic Dean**  | Dr. John Meyer | 1/8/2016 |

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| **Select Curriculum Committee Meeting Date** | March 4, 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.**

**Computer Programming and Analysis, AS**

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| PurposeThe Associate in Science (AS) in Computer Programming and Analysis program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers such as entry level programmers, programmer specialists, computer programmers, senior programmers, chief business programmers, programmer analysts, and information systems programmers.The content prepares individuals to analyze business situations and to design, develop and write computer programs; to store, locate, and retrieve specific documents, data, and information; analyze problems using logic/analysis tools, code into computer language; test, monitor, debug, document and maintain computer programs. More than one programming language is addressed in this degree program.Program StructureThis program is a planned sequence of instruction consisting of 60 credit hours in the following areas: 18 credit hours of General Education Requirements and 42 credit hours Computer Programming and Analysis Core Requirements (which includes 6 credit hours of a Programming Language).The Computer Programmer Certificate is a 33 credit hour certificate and the Computer Programming Specialist Certificate is an 18 credit hour certificate; both of which prepare students for entry into employment and are comprised of core courses in the AS Computer Programming and Analysis degree. As such, they can be earned before the student has earned the AS Computer Programming and Analysis degree.Course PrerequisitesMany 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.GraduationStudents must fulfill all requirements of their program major after which, students must complete an application for graduation through the Office of the Registrar and enroll in the GRD 2000 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. |
| **General Education Requirements: 18 Credit Hours*** [ENC 1101 - Composition I](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [ENC 1102 - Composition II](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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* [SPC 1017 - Fundamentals of Speech Communication](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* **OR**
* [SPC 2608 - Introduction to Public Speaking](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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* [PHI 2100 - Introduction to Logic](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* Any General Education Mathematics Course ([MAC 1105](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463#tt7041) -College Algebra or [STA 2023](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463#tt6378) -Statistical Methods I recommended) - **3 credits**
* Any General Education Social Sciences Course ([ECO 2013](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463#tt7618) - Principles of Macroeconomics recommended) - **3 credits**

**Computer Programming & Analysis Core Requirements: 42 Credit Hours*** [CGS 2108 - Computer Applications with Flowcharting](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [CIS 2321 - Systems Analysis and Design](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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* COP 1000 Introduction to Computer Programming 3 credits
* [COP 1822 - Internet Programming HTML](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [COP 2800 - Java Programming](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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* [COP 2823 - Advanced Microsoft Web Development](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* **OR**
* [COP 2830 - Internet Programming HTML II](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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* [CTS 1131 - Computer Hardware](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [CTS 1133 - Computer Software](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [MAN 2021 - Management Principles](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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* [SLS 1331 - Personal Business Skills](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* OR
* [SLS 1515 - Cornerstone Experience](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**

 **Choose** one **from the two-course language sequence groupings below:****Visual Basic Sequence - 6 credits*** [COP 1170 - Visual Basic Programming I](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [COP 2171 - Visual Basic Programming II](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
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**C++ Sequence - 6 credits*** [COP 1224 - Programming with C++](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [COP 2228 - Advanced Programming with C++](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
*

**C# Sequence - 6 credits*** [COP 2360 - C# Programming I](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* [COP 2362 - C# Programming II](http://catalog.fsw.edu/preview_program.php?catoid=8&poid=345&returnto=463) **3 credits**
* additional
* Any additional 1000 or 2000 level computer course with a COP, CGS, CTS, CNT, CIS, or CAP prefix – 3 credits

Total Degree Requirements: 60 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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