***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 2013-2014 catalog must be documented. Note before completing this proposal that all new courses and current prerequisite, corequisite, core, or electivecourses 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.*

|  |  |
| --- | --- |
| **School or Division** | School of Business and Technology |
| **Program or Certificate** | AS, Network Systems Technology |
| **Proposed by (faculty only)** | Andrew Blitz, Jennifer Cohen, Vincent Butler, Deborah Johnson |
| **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** | 1/8/2015 |

**Section I, Proposed Changes**

|  |  |
| --- | --- |
| **Change of School, Division, or Department** | None |
| **Change to program or certificate name** | None |
| **List below, any changes to the program or certificate prerequisites. Include course titles and credits if applicable.** | |
| N/A | |
| **List below, any changes to the General Education requirements. Include course titles and credits if applicable.** | |
| N/A | |
| **List below, any changes to the program or certificate Core requirements. Include course titles and credits if applicable.** | |
| Deleted:  CGS 1000, Computer Literacy  CGS 1100, Computer Applications for Business  CGS 2260, Computer Hardware and Software Maintenance  Added:  CGS 2108, Computer Applications With Flowcharting  CTS 1131, A+ Hardware  CTS 1133, A+ Software  SLS 1515 as an “OR” statement with SLS 1331 | |
| **List below, any changes to the program or certificate Elective requirements. Include course titles and credits if applicable.** | |
| No Changes | |
| **List below, any other changes to the program or certificate requirements.** | |
| No Changes | |
| **Change to program length (credits or clock hours to complete)** | From:no change  To: |

**Section II, Justification for proposal**

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| --- |
| **Provide justification (below) for each change on this proposed curriculum action** |
| The proposed changes allow for improved student learning outcomes and the opportunity for students to achieve higher levels of industry certification. The faculty believe that the CGS 1000 requirement of computer science students is redundant and suggest using those credits to split the CGS 2260 (A+ certification) course into two separate classes, CTS 1131 and CTS 1133 as the A+ certification is earned when the student passes two separate tests – one on hardware and one of software. Additionally, the faculty favor the creation of a computer science dedicated computer applications (MSOffice) course that includes elements such as flowcharting that are applicable to the discipline. Lastly, SLS 1515 has been improved in the area of employability skills and the content is now sufficient to meet the employability skills outcomes required in the framework. Therefore, the faculty support allowing students to choose either SLS 1331 or SLS 1515 as part of the core requirement. |

**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 Blitz, Vincent Butler, Deborah Johnson, Jennifer Cohen |

**nOTE:**Changes for the Fall 2015term must be submitted to the Dropbox by the January 3, 2015 deadline and approved no later than the February 28, 2015 Curriculum Committee meeting. Changes during mid-school year are NOT permitted. Extreme circumstances will require approval from the appropriate Dean or Assistant Vice President as well as the Provost and Vice President of Academic Affairs to begin in either theSpring2015 or Summer 2015 term.

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| --- | --- |
| **Term in which approved action will take place** | Fall 2015 |

|  |  |  |
| --- | --- | --- |
| **Required Endorsements** | **Type in Name** | **Select Date** |
| **Department Chair or Program Coordinator** | Andrew Blitz | 1/8/2015 |
| **Academic Dean or Assistant Vice President** | Dr. John Meyer | 1/8/2015 |
| **Dean’s Council Representative** | Dr. Mary Myers | 2/3/2015 |

|  |  |
| --- | --- |
| **Select Curriculum Committee Meeting Date** | February 27, 2015 |

Completed curriculum proposals must be uploaded to Dropbox by the deadline. Please refer to the *Curriculum Committee Critical Dates for Submission of Proposals* 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 Assistant 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** (no later than January 9, 2015 to be effective for the Fall 2015 term). 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.

**AS, Network Systems Technology**

**Purpose**

The Associate in Science (AS) in Network Systems Technology program offers a sequence of courses that that presents 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 cabling specialists, network control operators, data communications analysts, network technicians, computer security specialists, network specialists, network managers, network systems analysts, network systems technicians, network troubleshooters, WAN/LAN managers, or systems administrators.

The content includes but is not limited to planning, installing, configuring, monitoring, troubleshooting and managing computer networks in a LAN/WAN environment. Students will be prepared to apply conceptual and theoretical knowledge to the workplace utilizing technical skills learned during the program.

**Program Structure**

This program is a planned sequence of instruction consisting of 63 credit hours in the following areas: 18 credit hours of General Education Requirements, 42credit hours of Network Systems Technology Core, and 3 credit hours of General Electives. The Network Security Certificate is a 30 credit hour certificate that prepares students for entry into employment and is comprised of core courses in the AS Network Systems Technology degree. The Information Technology Support Specialist Certificate is an 18 credit hour certificate that also prepares students for entry into employment and is comprised of core courses in the AS Network Systems Technology degree. As such, either or both can be earned before the student has earned the AS Network Systems Technology degree.

**Course Prerequisites**

***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.

**Graduation**

Students 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 - 3 credits

ENC 1102 - Composition II - 3 credits

SPC 1017 - Fundamentals of Speech Communication - 3 credits

**OR**

SPC 2608 - Introduction to Public Speaking - 3 credits

PHI 2100 - Logic: Reasoning and Critical Thinking - 3 credits

Any General Education Mathematics Course (MAC 1105-College Algebra or STA 2023-Statistical Methods I recommended) - 3 credits

Any General Education Social Sciences Course (ECO 2013 - Economics I recommended) – 3

**Network Systems Technology, AS Degree Core Requirements: 42Credit Hours**

CGS 2108 – Computer Applications With Flowcharting– 3 credits

CIS 2321 - Systems Analysis and Design - 3 credits

CNT 1000 - Computer Networking Essentials -3 credits

COP 1000 - Introduction to Computer Programming - 3 credits

CTS 1131 – A+ Hardware– 3 credits

CTS 1133 - A+ Software – 3 credits

CTS 2120 - Computer and Network Security - 3 credits

CTS 2142 - Introduction to Project Management - 3 credits

**OR**

MAN 2582 - Principles of Project Management - 3 credits

CTS 2321 - Linux Internet Servers - 3 credits

CTS 2334 - Microsoft Windows Server - 3 credits

CTS 2655 - Internetworking with Cisco Routers - 3 credits

MAN 2021 - Management Principles - 3 credits

SLS 1331 - Personal Business Skills - 3 credits

**OR**

SLS 1515 – Cornerstone Experience – 3 credits

Any 1000 or 2000 level course with a CNT or CTS Prefix - 3 credits

**General Electives: 3 Credit Hours**

Any 1000 or 2000 level course – 3 credits

**Total Degree Requirements: 63 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)