



The logo for NEWTEC consists of the word "NEWTEC" in a bold, red, sans-serif font.



PROGRAM ARTICULATION AGREEMENT

College Program: SCC – Network Design and Administration
SFCC – Information Technology

CIP: 11.1002

CIP: 11.1006

Career Pathway: Network Systems

Career Cluster: Information Technology

The purpose of this agreement is to grant college credit to high school students who have achieved the level of knowledge and skill required for the college-equivalent entry-level course(s) identified in this agreement. Upon successful completion of the identified course competencies with a grade of 'B' (3.0) or higher and the high school teacher's endorsement that the competency requirements have been met, articulated credit will be granted.

The following Spokane Community College and Spokane Falls Community College course(s) have been approved for Tech Prep articulation with Central Valley School District high school course(s) as listed below:

| High School / Course Title | College / Course Title | Credits |
|---|---|---------------------|
| Central Valley HS A+ Computer Repair (CIP 470104) | SCC: CIS 201 IT Essentials-A+ OR SFCC: IS 140 Computer and Network Support | 5 OR 5 |
| Language Arts and Technological Literacy OR Computer Science Principles | SFCC: IS 103 Information Technology Fundamentals | 5 |
| University High School Computer Science Principles | SFCC: IS 103 Information Technology Fundamentals | 5 |

**see attached list(s) of competencies for articulated courses*

Student Articulation Procedure:

1. Be enrolled in the required high school class.
2. Register for Tech Prep/Dual Credit articulated course during the same academic year the high school class is completed. If a series of courses are involved in the articulation, students register for credit during the same academic year the last course in the series is completed. **Students cannot earn "retroactive credit" for courses taken in previous years.**
3. Earn a grade of 'B' (3.0) or better in all courses required under the articulation agreement.
4. Complete all required skills as identified on the competency profile.
5. If an exam or review of completed work is required under the terms of this agreement, students must receive a passing score (determined by college or industry certification) to earn college credit (*see competency list for requirements*).

High School Instructors:

1. Ensure all students receive a copy of the course syllabus outlining information about Tech Prep, the college course competencies and the process required to earn college credit.
2. Hold students accountable for the same competency standard and course expectations as required by the college-equivalent course (*see competency list attached*).
3. If required for articulation, ensure students are prepared to take industry certification exams, complete a professional portfolio documenting their work, or take a final exam to measure their level of skill and competence in the coursework.
4. Submit final grades for all students registered to earn Tech Prep college credit no later than June of the current academic year.
5. Attend scheduled meetings, workshops or in-service activities that enhance the high school/college partnership & support implementation of the Tech Prep articulated program.


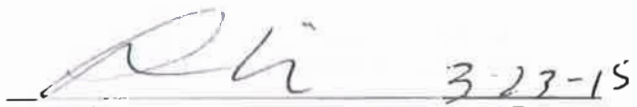




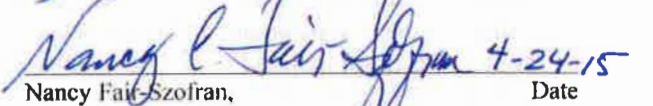
Articulation Review and Renewal:

The designated program facilitators, college administrators and/or instructors and high school faculty will meet regularly to revise or discuss the articulation agreement. Agreements must be reviewed/updated and re-signed by college faculty/deans and CTE directors/HS teachers on a schedule, not to exceed a three (3) year rotation, or as deemed necessary due to changes in HS/college course content or structure. Individual teacher verification forms must be signed and submitted annually. Minor revisions can be made via phone calls, correspondence or e-mail.

**PROGRAM ARTICULATION AGREEMENT
Network Design and Administration OR Information Technology**

**PARTICIPATING INSTITUTIONS
Central Valley School District,
Spokane Community College and Spokane Falls Community College**

We the undersigned representatives of the Northeast Washington Technical Education Consortium (NEWTEC), agree to all provisions of the articulation program/course agreement, have reviewed the course competencies, and understand the process to which students may be granted college credit through the Tech Prep program. We commit staff time and resources to ensure successful program implementation.

| | |
|---|--|
|  Susan Christenson, Central Valley School District CTE Director Date: 4/7/2015 |  Laura Kier, SCC Faculty Date: 3-23-15 |
|  Joe Bailey, Central Valley HS Teacher Date: 4/14/2015 |  Jeff Brown, SCC Program Dean Date: 3-23-15 |
| |  Max Joquin, SFCC Faculty Date: 3/12/15 |
| |  Jim Brady, SFCC Program Dean Date: 3/16/15 |
| |  Nancy Fair-Szofran, Provost, Community Colleges of Spokane Date: 4-24-15 |

Original March 2002
 Renewed/Modified November 2008. Renewal rotation and HS curriculum changes. gmf
 Revised 10/6/11: HS curriculum change - remove Cisco, add A+ Computer Repair. -
 Revised 2/3/12: to add new CVHS Computer Literacy class and SFCC courses to begin in 2012-13.
 Renewal 03/04/15: renewal rotation, update course titles. Revised/corrected 12/15/16 to add Computer Science to IS 103 per Max.

**IT FUNDAMENTALS
IS 103**

COURSE LEARNING OUTCOMES (CLOs)

1. Explain principal differences in various operating systems
2. Identify computer systems technical specifications
3. Assemble, disassemble, and configure a computer system

COURSE OUTLINE

- I. Business Computers**
 - A. Understanding Business Computers
 - B. Evaluating Business Computers
 - C. Selecting Business Computer
- II. Hardware**
 - A. Computer components
 - B. Understanding hardware components and technology
 - C. Hardware installation and upgrade
 - D. Computer maintenance introduction
- III. Software**
 - A. Introduction to Operating System
 - B. Operating system and hard drive management
 - C. Hard drive partitioning
 - D. Common Applications
- IV. Networking Terminology**
 - A. Basic networking terms
 - B. Computer systems and networks
 - C. Local and Wide Area Networks
- V. Internet Concepts**
 - A. History
 - B. How the Internet works
 - C. Networking concepts and the Internet

**Computer & Network Support
IS 140**

COURSE LEARNING OUTCOMES (CLOs)

1. Students demonstrate the installation of an operating system.
2. Students compare several operating systems.
3. Students identify standard computer system installation and maintenance procedures.
4. Students recognize computer system hardware.
5. Students examine customer relations procedures.

Course Outline

Prerequisites:

- IS 103 or Basic knowledge of Hardware and Operating Systems

I. Introduction

- A. Define Computer Systems and Network Systems
- B. Computer Technology Today
- C. Needs
- D. What needs to be done

II. Advanced Study of computer platforms

- A. Relations and communication between hardware, the operating systems and applications
- B. Computer systems and Networking.

III. Hardware technology

- A. Motherboards
- B. CPU
- C. Storage media
- D. Memory
- E. Graphic devices
- F. Peripherals

IV. Operating Systems

- A. Review different OS
- B. Boot sequence description
- C. Installation, maintenance
- D. Troubleshooting

V. Maintenance procedures

- A. Diagnostics
- B. System upgrades
- C. Hardware and software troubleshooting

VI. Customer relations

- A. Servicing customer failure reports
- B. Installing and maintaining customers' computing resources
- C. Instructing customers/end users

D. Human relations in the business environment

Course Objectives/Course Outline
Spokane Community College

Course Title: IT Essentials – A+

Prefix and Course Number: CIS 201

Course Learning Outcomes:

By the end of this course, a student should be able to:

Upon completion of the IT Essentials course, students should be able to perform the following tasks:

- Define information technology (IT) and describe the components of a personal computer
- Describe how to protect people, equipment, and the environment from accidents, damage, and contamination
- Perform a step-by-step disassembly and assembly of a desktop computer
- Explain the purpose of preventive maintenance and identify the elements of the troubleshooting process
- Install and navigate an operating system
- Configure computers to connect to a network
- Upgrade or replace components of a laptop based on customer needs
- Describe the features and characteristics of mobile devices
- Install and share a printer
- Implement basic hardware and software security principles
- Apply good communications skills and demonstrate professional behavior while working with customers
- Perform preventive maintenance and basic troubleshooting
- Assess customer needs, analyze possible configurations, and provide solutions or recommendations for hardware, operating systems, networking, and security

Course Outline:

- I. Introduction to the Personal Computer
- II. Lab Procedures and Tool Use
- III. Computer Assembly
- IV. Overview of Preventive Maintenance and Troubleshooting
- V. Operating Systems
- VI. Networks
- VII. Laptops
- VIII. Mobile Devices
- IX. Printers
- X. Security
- XI. The IT Professional
- XII. Advanced Troubleshooting