

SEWARD COUNTY COMMUNITY COLLEGE COURSE SYLLABUS

I. TITLE OF COURSE: CS1733- Introduction to Information Technology

II. COURSE DESCRIPTION: 3 credit hours 3 credit hours of lecture and 0 credit hours of lab per week.

This course Teaches modern readers to become not just computer users, but computational thinkers. Having grown up with computers, most readers already know how to use Information Technology (IT) in their daily lives—but use is not understanding. More than ever, they must become “computational thinkers,” able to conceptualize where and how computation can be used effectively. Equipping readers with a deeper understanding of the broad capabilities of technology, is taught using a project-oriented learning approach supported by examples and realistic problem-solving scenarios. The Course will teach readers to navigate IT independently and become effective users of today’s resources, forming a foundation of skills they can adapt to their personal and career goals as future technologies emerge. The text’s approach is centered on three types of content—skills, concepts, and capabilities—that prepare readers to adapt to an ever-changing computing environment. Real life examples and simulations will be covered in the MyITLab. EduKan course equivalency is CO145, as approved by Academic Affairs Council 1/25/2021.

For each unit of credit, a minimum of three hours per week with one of the hours for class and two hours for studying/preparation outside of class is expected.

Pre-requisite: None

III. PROGRAM AND/OR DEPARTMENT MISSION STATEMENT:

The CIS Program will provide superior learning opportunities in the area of information technology. Utilizing state-of-the-art technology, we will give both CIS majors and non CIS majors the tools they need in order to achieve their career and/or educational goals.

IV. TEXTBOOK AND MATERIALS:

1. Fluency with Information Technology, 7th edition
2. Access to a computer to use MyITLab online resources and companion website

V. SCCC OUTCOMES

Students who successfully complete this course will demonstrate the ability to do the following SCCC Outcomes.

- 1: Read with comprehension, be critical of what they read, and apply knowledge gained to real life
- 6: Exhibit skills in information and technological literacy
- 9: Exhibit workplace skills that include respect for others, teamwork competence, attendance/punctuality, decision making, conflict resolution, truthfulness/honesty, positive attitude, judgment, and responsibility

VI. COURSE OUTCOMES:

Upon course completion of Introduction to Information Technology course the student should be able to:

- Define Information Technology

- Basics of Networking
- Identify the components of a computer system
- Define and work with the basics of Networkings
- Define terminology used and effective use of the Internet
- Demonstrate the use of developing software
- Demonstrate how to work with spreadsheets and databases

VII. COURSE OUTLINE:

1. Chapter 1 Defining Information Technology Terms of Endearment
2. Chapter 2 Exploring the Human-Computer Interface Face It, It's a Computer
3. Chapter 3 The Basics of Networking Making the Connection
4. Chapter 4 A Hypertext Markup Language Primer Marking Up with HTML
5. Chapter 5 Locating Information on the World Wide Web The Search for Truth
6. Chapter 6 An Introduction to Debugging To Err Is Human
7. Chapter 7 Representing Information Digitally Bits and the "Why" of Bytes
8. Chapter 8 Representing Multimedia Digitally Light, Sound, Magic
9. Chapter 9 Principles of Computer Operations Following Instructions
10. Chapter 10 Algorithmic Thinking What's the Plan?
11. Chapter 11 Social Implications of IT Computers in Polite Society
12. Chapter 12 Privacy and Digital Security Shhh, It's a Secret
13. Chapter 13 The Basics of Spreadsheets Fill-in-the-Blank Computing
14. Chapter 15 Introduction to Database Concepts A Table with a View
15. Chapter 16 A Case Study in Database Organization The iDiary Database
16. Demonstrate mastery of lesson content

VIII. INSTRUCTIONAL METHODS:

1. Chapter Assignments
2. MyITLab simulations and exercises
2. End of chapter Exercises
3. Quizzes
4. Exams – Midterm and Final
5. Canvas Learning Management System

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

1. Chapter Assignments
2. MyITLab simulations and exercises
2. End of chapter Exercises
3. Quizzes
4. Exams – Midterm and Final
5. Canvas Learning Management System

X. METHODS OF ASSESSMENT:

Assessment will consist of the solutions to real life problems for which students will have to research, plan, program, execute and document.

Outcome #1 will be assessed and measured by the comprehension of reading assignments and in class discussion.

Outcome #5 will be assessed through tests, quizzes and the presentation of a final portfolio.

Outcome #6 will be assessed through the completion of projects.

Outcome #9 will be assessed through attendance, group assignments and presentation of

portfolios

XI. ADA STATEMENT:

Under the Americans with Disabilities Act, Seward County Community College will make reasonable accommodations for students with documented disabilities. If you need support or assistance because of a disability, you may be eligible for academic accommodations. Students should identify themselves to the Dean of Students at 620-417-1106 or going to the Student Success Center in the Hobbie Academic building, room 149 A.

Syllabus Reviewed: 2/9/2021