



College

Benedict

School of Art & Science  
Computer Science, Physics and Engineering

Course Syllabus

## Introduction to Computing and Programming Concepts Course ID: CSc 132

**Course Catalog Description:** This course is an overview of computer concepts, including hardware, operating systems, binary numbers, and programming logic. This course is offered for STEM majors. Non-STEM majors should enroll in CSc 131.

### Student Learning Outcomes:

At the completion of this course the students will be able to:

- (CL1) Navigate the learning management system (E360 – profile, dropboxing, format of submission, syllabus).
- (CS 1) Demonstrate basic use of application software (word processing, spreadsheets , presentations)
- (CS 1) Demonstrate basic use of system software ( windows explorer, system maintenance tools )
- (CS 2) Demonstrate proficiency in identifying the function of hardware components (CPU, memory, peripherals)
- (CS 3) Demonstrate proficiency in solving Boolean logic (and, or, not, xor truth tables)
- (CS 4) Demonstrate proficiency developing flow charts for control structures (blocks, symbols, I/O, decisions, loops, arithmetic and logic expressions)

### Course Requirements:

1. **On-line materials** - links provided by instructor
2. **Edvance360 Access:**
3. **A laptop or tablet would be a great asset but is not required.**
4. Installation of the free software tool for representing algorithms through flowcharts: **Flowgorithm**.  
See link: <http://flowgorithm.org/download/index.htm>

### Method of Instruction:

The material for this course will be covered in class through guided and group discussion, student presentations, hands-on applications, and reading assignments. Audio and video media and supplementary materials will be used to enhance and augment class discussions.

### Course Evaluation:

C or above is necessary for passing, since this is a core course for CS / CE major.

Students will be evaluated using the following tools and grading scales:

A	Superior	90 – 100	Correctly completed work
B	Very Good	80 – 89	The work may contain 1-3 errors
C	Acceptable	70 – 79	The work contains a major error or more than 3 moderate errors
D	Weak	60 – 69	The work contains major errors, however it demonstrates the student's basic understanding of the concepts
F	Unsatisfactory	Below 60	Incorrect work, demonstrating total disconnect from the topics taught and/or plagiarism

### Gradebook Items:

Assignment	Weight	Grade determined by
Homework (6-10 total)	10%	Best submission
In Class Assignments (flexible number)	10%	First submission
Projects (4 total)	40%	Best submission (Rubric TBA)
Tests (2 total)	10%	First submission (Rubric TBA)
Midterm Exam	15%	First submission (Rubric TBA)
Final Exam	15%	First submission (Rubric TBA)

Important notes:

- The instructor retains the right to check the submitted work for plagiarism. Plagiarism is obvious when different students submit work with **identical** errors. In case of plagiarism **all students involved** will get the same grade of 10%.
- For the assignments for which the grade is determined by the best submission, students can resubmit their work.
- Unless otherwise specified, students should submit their work electronically. The possibility of submitting work late is at the discretion of the instructor, depending

on the circumstance, and most probably will come with a penalty (exception, when standard excuse is presented).

- Attendance affects students' grades through the "In Class Assignments" category.

#### **COLLEGE/CLASS POLICIES:**

##### **STUDENT CODE OF ACADEMIC RESPONSIBILITY:**

*Strength of character is as important as academic achievement; therefore, the College expects everyone in the academic community to maintain personal integrity and avoid any conduct designed to gain unfair advantage in obtaining a grade. Academic dishonesty may include but is not limited to plagiarism, cheating, falsification of records, and collusion with others to defraud. Any student found guilty of academic dishonesty will be subject to disciplinary action which may include loss of credit, suspension, or dismissal.*

-Benedict College Academic Catalogue 2015-17

##### **DRESS CODE:**

*Students' dress at Benedict College should reflect high standards of personal self-image so that each student may share in promoting a positive, healthy and safe atmosphere within the College community. The dress code is limited in time and place to College functions and educational facilities, including classrooms, the Cafeteria, the Campus Center and the Chapel. Students are expected to follow the Benedict College Dress Code.*

##### **Special Student Services:**

*The Office of Special Student Services provides reasonable assistance and services for students who are in need of special accommodations that will aid in achieving academic success resulting from a physical, psychological, medical, or learning disability. A disability has to be identified in writing and filed in the Office of Special Student Services. Some of the services are as follows: Peer tutoring; Reader services; and tape recorders and tapes to record classroom lectures. The unit also makes referrals to agencies providing external funding; and Learning opportunities through Work-Study, and Service-Learning.*

##### **CLASS ATTENDANCE (EXCUSED ABSENCES):**

*Students may secure an official excuse for class absences caused by school sponsored extracurricular activities, personal illness, death in family, severe family illness, and court summons (not incarceration). Excuses may be obtained in the Office of Student Affairs in the Administration Building, Room 100. Satisfactory documentation is required. Satisfactory documentation must be in the form of an "official" document of the issuing agency. That is, an official seal, letterhead and signature must appear on the document. Absolutely no copies will be accepted as satisfactory documentation. Any*

*evidence of alteration of an official document will not be accepted, and the student may be subject to the appropriate disciplinary actions if alteration of the official document is proved. (Notes from relatives, friends, etc., are not accepted as "official" documentation for absences.) The Student Health Center is delegated to issue excuses to students who receive services from the Student Health Center staff based on the students' health assessment.*

Demi Dale

Advisor Decole Burgess