

Course Syllabus

Course Prefix, Number, and Title:

CSC 150 Computer Science I

Credits:

3 credits

University Name:

Dakota State University

Academic Term/Year:

Spring 2020

Last date to Drop and receive 100% refund:

January 22, 2020

Last date to Withdraw and earn a grade of 'W':

April 6, 2020

Course Meeting Time and Location:

Section DT1 - Internet - January 13, 2020 to May 6, 2020

Instructor Information:**Name:**

Dr. Christopher J. Olson

Office:

East Hall 104-B

Phone Number(s):

605-256-5688 (office) 605-256-5165 (secretary)

Email Address:

chris.olson@dsu.edu

Office Hours:

Virtual - **see Course Delivery and Instructional Methods*

Approved Course Description:**Catalog Description:**

An introduction to computer programming. Focus on problem solving, algorithm development, design, and programming concepts. Topics include sequence, selection, repetition, functions, and arrays.

Prerequisites:

Course Prerequisite(s):

None

Technology Skills:

Students will be required to use email for communication, and Desire2Learn (D2L) as the online course management system. Support for using D2L can be found in the Student Support section.

Course Materials:

Required Textbook(s):

C How to Program, 8th Edition
Deitel & Deitel
©2016
ISBN-13: 9780133976892

Textbook purchasing options:

- [DSU Bookstore](#)
- [eBook](#)

Required Software:

You will need a way to compile C programs. Options are available on the D2L course site and are provided in the first assignment. I strongly suggest MinGW.

Student Support:

DSU Knowledge Base:

The DSU Knowledge Base contains links and resources to help students by providing information about the following topics: User Accounts & Passwords, Academic Tools & Resources, Software & Apps Support, WiFi & Network Access, Campus Emergency Alert System, Campus Printing, IT Security & Safe Computing, and the Support Desk (which is there to help both on and off-campus students). The Knowledge Base can be accessed through the link below:

- [DSU Knowledge Base](#)

D2L Support for Students:

The D2L Support for Students site is designed to provide DSU students a D2L support resource center that contains user guides, tutorials, and tips for using the D2L learning environment. The D2L Support for Students site can be accessed through the link below:

- [DSU D2L Support Resources for Students](#)

Course Delivery and Instructional Methods:

Students will be given weekly lab assignments, quizzes, and tests online through D2L. The Content link in the D2L site for the course contains videos of programs that students are expected to follow along with to create the programs shown in the videos before doing the assignments.

Because this is an online class delivered through D2L, it is crucial that you have a working computer and reliable access to the Internet on a regular basis. You should have a backup plan if needed, as a computer that is not working or the inability to connect to the Internet are not valid excuses for missing a submission deadline.

I will be available most afternoons and evenings to answer questions. Email is my preferred form of communication and I check regularly throughout the day. While I cannot guarantee you an immediate answer to your inquiry, I will always do my best to reply in a timely manner. It is unlikely that you will ever have to wait more than a day for a response.

Classroom Policies:

Attendance and Make-up Policy:

Attendance is expected through Desire2Learn and the submission of assignments, quizzes, and tests. Students are expected to view and follow along with course videos found in the Content link in the D2L course site. Students will not be successful in this course without regular participation and attendance through Desire2Learn.

Please do not ask for an extension on an assignment, quiz, or test, especially the day it is due or, even worse, after the submission deadline has passed.

- **Tests:** Make-up examinations will not be given unless prior approval (at least 24 hours before the end date and time) is granted from the course instructor.
- **Assignments:** Late submissions will not be accepted for any credit.
- **Quizzes:** Quizzes cannot be made up.

Accessibility Statement:

Dakota State University strives to ensure that physical resources, as well as information and communication technologies, are accessible to users in order to provide equal access to all. If you encounter any accessibility issues, you are encouraged to immediately contact the instructor of the course and Dakota State University's ADA Office, which will work to resolve the issue as quickly as possible.

DSU's ADA Office is located in the Learning Engagement Center and can be contacted by calling 605-256-5121 or emailing dsu-ada@dsu.edu. Students seeking ADA accommodations (such as non-standard note taking or extended time and/or a quiet space taking exams and quizzes) can log into the DSU portal to access <https://portal.sdbor.edu/dsu-student/student-resources/disability-services/Pages/default.aspx/> for additional information and the link to the Disability Services Request Form. You will need to provide documentation of your disability and the ADA Coordinator must confirm the need before officially authorizing accommodations.

Academic Honesty Statement:

Cheating and other forms of academic dishonesty run contrary to the purpose of higher education and will not be tolerated in this course. Please be advised that, when the instructor suspects plagiarism, the Internet and other standard means of plagiarism detection will be used to resolve the instructor's concerns. The South Dakota Board of Regents Student Academic Misconduct Policy can be found here: [SDBOR Policy 2.33](#).

Do not copy code from online forums, attempt to have others fix your code for you, or copy from other past and present students. Doing so is a clear violation of academic integrity. Copying code - even a few lines - from another past or present student or a web site (other than the course site) and modifying a few variable names, comments, or whitespace is not doing your own work and is considered cheating.

Please do not try to use Chegg. The instructions used for assignments are unique and not found in a textbook. It is easy to see when the lab instructions are posted to Chegg, and obvious when code from Chegg is submitted for assignments (even if it is slightly modified). Chegg cooperates when assignment instructions are found on their web site, so please do not try to use it. Unfortunately, several students have failed the course in recent years for submitting code written by others on Chegg. **Copying code from Chegg will result in failing the course.**

Penalties for Violating Academic Integrity

Depending on the severity of the violation, students will face one or more of the penalties below:

- Failure of the course
- Zero points on the submission plus an additional loss of a **full letter grade** at the conclusion of the semester
- Formal acknowledgement that you violated academic integrity policies recorded in your permanent academic records
- Egregious violations will result in failing the course, but more than one violation, no matter how minor, will also result in failure of the course

Communication and Feedback:

Preferred Email Contact Method:

Please use a regular email account to send messages to chris.olson@dsu.edu.

Email Response Time:

Email inquiries will be answered as soon as possible. Students should never have to wait more than 24 hours to receive an answer to an email question. If a day passes and a student has not received a reply, the student should send another message in case the original was not delivered successfully.

Feedback on Assignments:

Assignment scores and feedback are usually posted on D2L within a day of the deadline. Students may also opt to receive assignment scores via text message and/or email message as soon as the assignment is graded.

Requirements for Course Interaction:

All communication among students in the class and/or with the professor should be courteous and respectful. Please type in complete sentences and use appropriate capitalization and punctuation. If students have questions, it is much easier to reply with an answer if the wording of the question is specific. Please contact the professor for clarification if anything written in an email message or in the assignment instructions is difficult to understand.

Student Learning Outcomes:

Chapter 1 - Introduction

- Programming Languages
- The C Programming Language
- C Standard Library
- C++ and Other C-Based Languages
- Object Technology
- Typical C Program Development Environment

Chapter 2 - Introduction to C Programming

- A Simple C Program: Printing a Line of Text
- Another Simple C Program: Adding Two Integers
- Memory Concepts
- Arithmetic in C
- Decision Making: Equality and Relational Operators

Chapter 3 - Structured Program Development in C

- Algorithms
- Pseudocode
- Control Structures
- The if Selection Statement
- The if...else Selection Statement
- The while Repetition Statement
- Assignment Operators
- Increment and Decrement Operators

Chapter 4 - C Program Control

- Repetition Essentials
- Counter-Controlled Repetition
- The for Repetition Statement
- The switch Multiple-Selection Statement
- The do...while Repetition Statement
- The break and continue statements
- Logical Operators
- Confusing Equality (==) and Assignment (=) Operators

Chapter 5 - C Functions

- Program Modules in C
- Math Library Functions
- Functions
- Function Definitions
- Function Call Stack and Stack Frames
- Headers
- Passing Arguments By Value and By Reference
- Random Number Generation
- Storage Classes
- Scope Rules
- Recursion
- Recursion vs. Iteration

Chapter 6 - C Arrays

- Arrays
- Defining Arrays
- Passing Arrays to Functions
- Sorting Arrays
- Searching Arrays
- Multidimensional Arrays
- Variable-Length Arrays

Evaluation Procedures:

Assessments:

Submission	Quantity	Points per Submission	Total Points	Percentage %
Lab Assignments	12	30	360	50%
Quizzes	12	12	144	20%
Tests	3	72	216	30%
TOTAL	-	-	720	100%

Final Examination:

The final exam will be available throughout the duration of the course, but it must be completed by **5:00 PM Central on Wednesday, May 6, 2020**.

Performance Standards and Grading Policy:

Grading Scale:

% of Points	Letter Grade
greater than or equal to 90%	A
greater than or equal to 80% and less than 90%	B
greater than or equal to 70% and less than 80%	C
greater than or equal to 60% and less than 70%	D
below 60 %	F

Make-up Policy for Missed Submission Deadlines:

Please do not ask for an extension on an assignment, quiz, or test, especially the day it is due or, even worse, after the submission deadline has passed.

- **Tests:** Make-up examinations will not be given unless prior approval (at least 24 hours before the end date and time) is granted from the course instructor.
- **Assignments:** Late submissions will not be accepted for any credit.
- **Quizzes:** Quizzes cannot be made up.

Student Verification Statement and Proctoring Policy:

Federal law requires that universities verify the identity of students when course materials and/or course assessment activities are conducted either partially or entirely online. A student's Desire2Learn (D2L) login and password are intended to provide the student with secure access to course materials and are also intended to help the university meet this federal mandate. A proctor is not required for this course. However, if suspicious activity is detected in quizzes or tests, students may be required to use a proctoring service or a webcam during tests as a means of student identity verification through visual recognition.

Quizzes and tests in this course are timed, and students are free to use notes and any course textbooks while taking a quiz or test. Please be sure you are not working with others while taking a quiz or test. Each student should take it without help from others. D2L logs quiz and test activity so it is easy to see when students attempt to work together. Please do your own work.

Tentative Course Outline and Schedule:

Week	Chapter	Labs	Quizzes	Tests	Due Date
Week 1	Introduction to CSC 150		Quiz 1		Wed - 01/15/20
Week 2	Chapter 1 Introduction to Computing/Programming	Lab 1	Quiz 2		Wed - 01/22/20
Week 3	Chapter 2 Introduction to C Programming	Lab 2	Quiz 3		Wed - 01/29/20
Week 4	Chapter 2 Introduction to C Programming	Lab 3	Quiz 4		Wed - 02/05/20
Week 5	Chapter 2 Introduction to C Programming	Lab 4		Test 1	Wed - 02/12/20
Week 6	Chapter 3 Structured Program Development in C	Lab 5	Quiz 5		Wed - 02/19/20

Week	Chapter	Labs	Quizzes	Tests	Due Date
Week 7	Chapter 3 Structured Program Development in C	Lab 6	Quiz 6		Wed - 02/26/20
Week 8	Chapter 4 C Program Control		Quiz 7		Wed - 03/04/20
	*** Spring Break ***				
Week 9	Chapter 4 C Program Control	Lab 7	Quiz 8		Wed - 03/18/20
Week 10	Chapter 4 C Program Control	Lab 8			Wed - 03/25/20
Week 11	Chapter 4 C Program Control			Test 2	Wed - 04/01/20
Week 12	Chapter 5 C Functions	Lab 9	Quiz 9		Wed - 04/08/20
Week 13	Chapter 5 C Functions	Lab 10	Quiz 10		Wed - 04/15/20
Week 14	Chapter 6 C Arrays		Quiz 11		Wed - 04/22/20
Week 15	Chapter 6 C Arrays	Lab 11	Quiz 12		Wed - 04/29/20
Week 16	Chapter 6 C Arrays	Lab 12		Test 3	Wed - 05/06/20

Freedom in Learning Statement:

Students are responsible for learning the content of any course of study in which they are enrolled. Under Board of Regents and University policy, student academic performance shall be evaluated solely on an academic basis and students should be free to take reasoned exception to the data or views offered in any course of study. It has always been the policy of Dakota State University to allow students to appeal the decisions of faculty, administrative, and staff members and the decisions of institutional committees. Students who believe that an academic evaluation is unrelated to academic standards but is related instead to judgment of their personal opinion or conduct should contact the dean of the college which offers the class to initiate a review of the evaluation.

Additional Information:

Modifications to the Course:

The instructor reserves the right to make adjustments to this syllabus during the course of the semester in order to better meet the needs of the students.