



# LISLE HIGH SCHOOL

1800 Short Street  
Lisle, Illinois 60532



## Computer Science

College of DuPage Dual Credit Course  
Aligned with CIS1400: Programming Logic and Technique

### Course Teacher Contact Information

Teacher	Email	Phone Number
Darius Bamboat	dbamboat@lisle202.org	630-493-8368

### DEPARTMENT MISSION

The mission of Career and Technical Education (CTE) is to provide college and career readiness instruction through a dynamic, hands-on curriculum, providing students the education and skills necessary to prepare them for a specific college major and/or career. Students will acquire the ability to work independently, as part of a team, and think creatively to solve problems.

### COURSE DESCRIPTION(College of DuPage)

An introduction to computer-based problem-solving techniques. Includes software design tools such as structure charts, Input Processing Output (IPO) charts, flowcharts, pseudocode, and Unified Modeling Language (UML) diagrams. Concepts such as documentation, structured design, modularity, Object Oriented Program (OOP) design, and event driven programming are covered. Programming of algorithms are implemented using a high level language that emphasize structured and object oriented design techniques.

### COURSE LEARNING STANDARDS (CSTA K-12 Computer Science Standards)

CTL2-01 Use the basic steps in algorithmic problem-solving to design solutions (e.g., problem statement and exploration, examination of sample instances, design, implementing a solution, testing, evaluation).

CTL2-14 Examine connections between elements of mathematics and computer science including binary numbers, logic, sets and functions.

CTL3A-02 Describe a software development process used to solve software problems (e.g., design, coding, testing, verification).

CTL3A-03 Explain how sequence, selection, iteration, and recursion are building blocks of Algorithms.

CLL2-03 Collaborate with peers, experts, and others using collaborative practices such as pair programming, working in project teams, and participating in group active learning activities.

CLL3B-01 Use project collaboration tools, version control systems, and Integrated Development Environments (IDEs) while working on a collaborative software project.

CPPL2-04 Demonstrate an understanding of algorithms and their practical application.

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CPPL2-05 Implement problem solutions using a programming language, including: looping behavior, conditional statements, logic, expressions, variables, and functions.

CPPL3A-05 Use Application Program Interfaces (APIs) and libraries to facilitate programming solutions.

## COURSE GRADING POLICY

COURSE GRADE	20% Formative Assessment	80% Summative Assessment
FINAL SEMESTER GRADE	80% Course Grade	20% Semester Final Exam

- Standards are clearly communicated to students with clear indicators of proficiency and exemplars.
- If a student is absent from class, an incomplete will be the placeholder until the deadline.
- If a student does no work on the task/assignment, the teacher will assign a zero.
- Formative assessments will be given throughout the unit in preparation for summative assessments.
- Students are expected to take steps to correct errors of knowledge, understanding, or skills.

## FINAL EXAM POLICY

This course includes a final exam worth 20% of your semester grade. All students take the midterm and final exam.

## LATE WORK POLICY

It is the student's responsibility to ask what was missed during illness or absence. If a student is leaving for a period of time, they should contact the classroom teacher a week prior to request makeup work BEFORE said absence.

- **Formative Assignments (class work, activities, homework):** Late work must be completed by the end of the grading period. Anything turned in after the date it was due will receive a maximum grade of 60%
- **Summative Assignments (tests, quizzes, projects):** Late summative assignments must be completed by the end of the grading period. Students should schedule a time to make-up the summative assessment with the teacher. Times available to students are before or after school, during the student's study hall, or by special arrangement. All summative assignments will be valued at the actual success rate of the student's work.

## COMMUNICATION WITH COURSE TEACHER(S)

- Teachers make every effort to respond to emails and phone calls within 48 hours during the workweek.
- The best way to communicate with me is through email; however, if you have not received a response in 48 hours, please resend the email or call voicemail. Your email may have gone into the spam folder.

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## REASSESSMENT POLICY

Summative quizzes can be re-taken for a potentially higher grade (up to 85%). In order to reassess, all chapter homework must be completed, a reassessment request must be submitted, and a reassessment assignment must be completed. Also, the retake must take place within two weeks of when the original quiz was returned. Students will earn their best score on the reassessment, with a maximum replacement score of 85% on all reassessments.

## OTHER SUPPORT

### STUDENT HELP

- Please make an appointment with your teacher before or after school, and not during class time, if you are concerned with your grade.
- Your grade is YOUR responsibility. Please keep tabs on it.

### PARENTS/GUARDIANS

- Parents should actively check PowerSchool for their student's grade.
- It is the student's responsibility to ask for help when needed.
- The grades on PowerSchool will be accurate only at Quarter and Semester. Prior to those dates, the grade reflected is fluid.
- Please ask your student about their school work.
- Check with your individual teacher for classroom procedures, schedules, and daily class news.

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