

Bergen Community College
Division of Business, Math & Social Science

Course Syllabus
Information Technology

Course Title:

INF-150 Business Programming Logic

Credits/Hours:

3 credits/2 hours lecture, 2 hours lab.

Course Description:

This course develops and reinforces the student's logical thought processes using proper design techniques and tools, especially flowcharting. Topics presented include exploration of business programming considerations, such as input of data, output of information, accuracy and reliability, the use of objects and object-oriented programming, as well as data structures. Topics under data structures include linked-lists, hyperlinking, stacks, queues, trees, and traditional file structures.

☐ 2 lectures, 2 labs, 3 credits

Recommended Corequisite: INF-101 (To be successful in this course, students should adhere to the recommendation).

Prerequisite:

MAT-035 or by Mathematics testing

Textbooks and Supplies:

See course outline

Student Learning Objectives	Assessment Measures
1. Match a core list of program design techniques.	Exam
2. List tools used to foster good program design techniques	Exam
3. Demonstrate the ability to analyze a problem statement and build a module specification	Exam & Projects
4. Identify the components of pseudocode and how to structure modules	Exam & Projects
5. Use various modeling tools to build detail module designs	Exam & Projects
6. Use various tools to document the module design specifications.	Exam & Projects

College Competencies:	Student Learning Objective:
1. Technological and Information Literacy – Students will demonstrate computer literacy, and will be able to retrieve, organize, and analyze information using both technological and traditional means.	1 - 6

College Competencies:	Student Learning Objective:
2. Critical Thinking – Students will actively reflect on, reason about, and form independent judgments on a variety of ideas and information, and use these skills to guide their beliefs and actions.	5, 6
3. Communication – Students will read, write, speak, and listen effectively.	Project Presentation

Course Content:

See course outline

Assessment:

An average of 60% from combined assessment measures is required to demonstrate proficiency in course material.

Exams:	45%
Laboratory/Project Assignments	55%

Quizzes:

There may be several quizzes, each worth 10 points, given at the beginning pre-selected classes. The quiz material will be based upon the prior lectures and labs and/or the reading assignments. The lowest grade quiz will be dropped. A quiz cannot be made up if missed. A student entering class late, after a quiz has begun, will not be entitled to extra time to complete the quiz. Students entering class after a quiz is completed will not be permitted to take the quiz.

Testing:

Students **are required** to take examinations on the day and time they are scheduled. If special circumstances require a test schedule adjustment, this must be **worked out in advance** with the instructor. If a student misses an exam (except for prearranged circumstances with the instructor) a zero grade will be assigned and the student should plan to take the optional cumulative final.

The instructor can be reached by **telephone** (see course outline for appropriate phone number), **email, or a written note** can be left in the Divisional Office (during the day) A-306C or in the Evening Office L-113. If there are extreme circumstances (documentation may be required) that prevent a student from taking a test or an exam according to the published schedule, the student should use one of the above options to contact the instructor before the next class. An arrangement for a special testing schedule is solely at the **discretion of the instructor**. A student who waits for the next class session to speak with the instructor will not be accommodated with a special test schedule.

It is the student's responsibility to finish an examination correctly and completely. Therefore, when computer Scantron forms are used as answer sheets, the student **must use** a Number 2 lead pencil and erase all stray marks completely. The burden of proper erasure **is at test taking time**. Once the examinations are returned to the students, there will be **no grade adjustments** made due to inappropriate completion of the response form.

Laboratory Work:

It is anticipated that students will spend at least 6 hours per week in the free-time computer room perfecting their skills and completing their lab assignments. The lab assignments are required for grading. They must be submitted on the assignment due date. Acceptance of late laboratory assignments is solely at the **discretion of the instructor**.

Homework:

In addition to any homework assignment given during class, it is a **standing assignment** that the student read each chapter of the book prior to its discussion. Following the class discussion, the student should reread the material and work with the exercises throughout the text. It is anticipated that students will spend at least four hours per week reading the text and working with the exercises and supplemental resources.

Policies:

- Lateness – The roll will be taken at the beginning of class. If the student is not in attendance at that time, he/she will be carried in the roll book as being absent unless the instructor is notified immediately after class. Attendance sheets cannot be adjusted at following class meetings.
- The student must adhere to all college policies. Due to the nature of this course, it is recommended that the student review the policy titled “*Acceptable Information Technology Use at Bergen Community College*”.
- The use of portable electronic devices such as pagers and cell phones is not permitted while class is in session. Please be sure to silence electronic devices before entering class.
- The use of audio CD or tape players, radios, and college computers to play music during class is prohibited.
- Students are expected to demonstrate listening, reading, note taking, and writing skills. The student will need to take notes during class discussions and understand and follow verbal and written directions. All assignments and correspondence with the instructor (including e-mail) must be well written in full sentence format. Proper paragraph format must be used for all postings to the student bulletin board (if applicable).
- The subject line of all e-mail correspondence to the instructor must contain the course number and section and student’s name. Any e-mail received without this information will not be opened.
- Plagiarism in any form will be treated as a failure to complete an assignment. All work submitted should reflect individual effort by the student.
- In borderline cases that arise in almost every class each semester, a student’s attendance, class participation, attitude, and observed effort will be considered in helping to determine the student’s final grade.

If the instructor does not appear after 20 minutes following the scheduled starting time, students should generate an attendance list. One volunteer member needs to deliver the list, containing the course title, date, and instructor’s name, to the Evening Office (L-113) or to the Divisional Office (during the day) A-306C.

Additional policy and assessment information may be distributed by individual instructors.