

Course Number: OL 3300

Course Title: Quantitative Decision-Making

Course Description:

A course designed to give OL students the specific math background to understand, correlate, and analyze data. It covers mathematical operations, how to use a calculator effectively to solve organizational problems, equations, and graphs, simultaneous equations and their applications (i.e. breakeven analysis), simple regression and descriptive statistics (mean, median, mode, standard deviation, histograms and Pareto charts).

Prerequisites: OL 3200, MA1020.

Credit hours: 3

Learning Outcomes:

Upon the successful completion of this course, students will be able to:

1. Perform exercises in which addition, subtraction, multiplication and division is required with real numbers, terms, and expressions.
2. Solve linear systems of equations by several methods.
3. Graph linear equations, read graphs, and be able to solve two equations in two unknowns.
4. Solve systems of linear equations by graphing and by substitution.
5. Solve problems in social sciences, and business and finance.

Indiana Tech
College of Professional Studies
OL 3300 Quantitative Decision-Making
Online Course Syllabus Content

Instructor Information

Please see Professor Profile at the Blackboard instructional site.

Course Schedule

Please see Course Schedule in the Course Syllabus area of the Blackboard instructional site.

Online Course Policies

All of the online courses taken by students are required to follow the policies posted online at <http://online.indianatech.edu/tech-policies/policies/>. Please review the posted policies carefully. If you are unable to abide by the policies listed, please contact the Warrior Information Network (WIN) at 888.832.4742 and request to withdraw from this course.

Textbook

Hutchison, D., Bergman, B. & Baratto, S. (2014). *Beginning algebra* (9th ed.) New York, NY: McGraw Hill. ISBN: 978-0073384450

Grading Events & Grading Criteria

Unless otherwise specified, all assignments must be submitted via Blackboard.

Examinations - (90% of final grade)

There will be five (5) exams in this course - one in each Module. Each exam consists of 15 questions and each question worth 6 points. Note you must complete examinations by the due date or you will not be able to access them. Also, once you access an examination, you must complete it. There is no starting over or resuming an exam.

Check Your Learning Assessments - (10% of final grade)

You will be asked in each section to complete some odd numbered exercises from the textbook. They are assigned for you to work in preparation for the Exams therefore you do not need to submit them. You will, however, be asked to complete some sample problems on Blackboard - known as "Check Your Learning Assessments".

There will be five (5) CYLAs in this course - one in each Module. Each CYLA consists of 10 questions and each question worth 1 point. Each CYLA may be taken multiple times with your highest grade of all attempts being the score you receive for the assignment. You can earn a maximum of 10 points for each of the Check Your Learning Assessment if completed by the due date. An incorrect answer will prompt the Section in the textbook where those types of problems are located.

The Check Your Learning Assessments are recommended to be completed after doing all the assigned homework problems (odd numbered problems only) in the Module and a couple days prior to taking the Module Exam.

Grading Scale

The total possible points a student can earn are 500 points. The following grading scale will be used to assign a grade of the course:

| Assignment/Activity | Points Available |
|--------------------------|------------------|
| Course Preparation Quiz | 10pts |
| CYLA Modules (5 x 10pts) | 50pts |
| Exams (5 x 90pts) | 450pts |
| Total | 510pts |

The following grading scale will be used to assign a grade at the end of the course:

| Points Achieved | Grade | Points Achieved | Grade | Points Achieved | Grade |
|-----------------|-------|-----------------|-------|-----------------|-------|
| 465 or above | A | 400 or above | B- | 350 or above | C- |
| 450 or above | A- | 385 or above | C+ | 300 or above | D |
| 435 or above | B+ | 365 or above | C | Below 300 | F |
| 415 or above | B | | | | |

Late Assignments

All assignments and required online activities are due according to the deadline listed in the course schedule. Granting deadline extension is the course instructor's autonomy.

Incompletes

If you are unable to complete the requirements for this course due to extenuating circumstances, an Incomplete grade (I) may be granted if you meet the general guidelines stated below.

General Guidelines for submitting a course incomplete request:

- More than 50% of the course session has elapsed.
- The student has encountered an unexpected situation that is beyond his or her control.
- The student is
 - in good academic standing -- up-to-date on all of the course assignments and has at least an overall passing grade,
 - able to complete all of the remaining coursework within a session (5 weeks for an undergraduate course and 6 weeks for a graduate course) that immediately follows the session the student is currently enrolled, and
 - able to provide documentation to substantiate the need for extra time in the event that the session's normal length is not enough to complete the course requirements.

If an Incomplete is granted, the instructor will set a deadline for all work to be completed. **The deadline cannot go past one (1) session.** All incomplete grades and deadlines are subject to approval by the designated university authority.

Course Related Communication

Online courses are conducted in an accelerated format. Timely communication is very important. When receiving emails from your classmates or instructor, please respond as soon as you can.

Students are REQUIRED to use their Indiana Tech email account for all course related communication. The most direct and effective way to email your course instructor (or classmates) is by using the Send Email function from the Blackboard course site. When you use the Send Email function, you automatically receive a carbon copy of the email you sent. In the event that you need to substantiate your claim that you did email your classmates or instructor, you can show that carbon copy to the person(s) who requested it.

Please note that Blackboard only permits you to send email; it does not provide you with the check email function. All of the emails your classmates and instructor sent to you will be delivered to your Indiana Tech email account. You are strongly encouraged to check your Indiana Tech email account regularly, preferably several times a week, to minimize the likelihood of miscommunication.

The University policy requires each online course instructor to respond to a student's email within 24 hours. Unless there is an extraneous situation that prevents the instructor from following this rule, you can expect to hear from the instructor within 24 hours. If you don't receive a reply within 24 hours, please do not hesitate to follow up with another email or forward the carbon copy of the email you sent to OnlineSupport@IndianaTech.edu with a note "Please help. It's been 24 hours and I have not heard from my instructor" and the University support staff will act on your behalf to contact your course instructor.