Course Information

Course Description

The Quantitative Literacy I course is a course designed to introduce students to basic and some intermediate concepts of number sense and quantitative analysis. The course is designed to help students conceptualize abstract quantitative concepts as they relate to real-world problems and everyday life. The course provides extensive examples and practice to help students explain and apply the concepts. The course covers basic number sense, algebraic concepts, Geometry and visual modeling, and probability.

Course Outcomes

- The student will be able to perform basic mental calculations including estimation, multiplication, division, adding, subtracting, rounding, and factors.
- The student will be able to analyze, calculate, and convert basic fraction equations including proper, mixed, improper, equivalent, common and uncommon denominators.
- The student will be able to identify, analyze and evaluate problems with decimals, ratios, and proportions, and rational proportions.
- The student will analyze and evaluate algebraic equations. Including basic equations, inequalities.
- The student will analyze and evaluate functions, systems of equations, exponential and logarithmic graphics.
- The student will identify and analyze elements of a coordinate plane as it relates to linear equations and functions.
- The student will analyze and evaluate basic geometric shapes and equations.
- The student will analyze data, identify the correct graphic representation, and evaluate graphs to solve problems.
- The student will analyze data and calculate descriptive statistics.
- The student will analyze and evaluate data to determine basic statistics such as measures of spread, normal distribution, z-scores, confidence intervals, correlation, and regression.
- The student will analyze and calculate basic probability such as permutations, combinations, events, and simple probability.
- The student will analyze and calculate probability such as two events, AND probability, OR
probability, and conditional probability.

Course Materials

All required reading and other materials necessary to complete required exercises are provided within the course platform. Links to additional, optional resources on external websites are also provided for each lesson in a Lesson Toolbox.

Course Length

This is a self-paced course allowing students to learn according to their personal schedules. It contains 10 modules, each with multiple lessons that support varied approaches to engaging with the topic, including readings, video, and a knowledge-check quiz. To earn credit for the course, students must complete 59 low-stakes lesson knowledge-check quizzes, 10 module practice assignments (formative), 10 module evidence assignments (word problems - formative), 10 formative module quizzes, and 2 exams (proctored summative assessments). For further guidance on course completion timelines, we have created two sample schedules which can be accessed below.

Course Name - 7 Week Sample Schedule
Course Name - 14 Week Sample Schedule

We recommend that you work through the course at a comfortable pace that allows you to make regular, incremental (daily and/or weekly) progress. If neither of the schedules above work for you, please feel free to create your own.

On average, we estimate 45 minutes to read and watch all content in each lesson, and to complete the Check Your Knowledge quiz. In addition, we estimate an additional 75 minutes of study time per lesson to prepare for Module Quizzes and to complete the Evidence activity for each module.

The table below provides the estimated study time required to complete a typical module in this course.

<table>
<thead>
<tr>
<th>Sample Module</th>
<th>Estimated Online Study Time</th>
<th>Estimated Offline Study Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson 1</td>
<td>45 minutes</td>
<td>75 minutes</td>
</tr>
<tr>
<td>Lesson 2</td>
<td>45 minutes</td>
<td>75 minutes</td>
</tr>
<tr>
<td>Lesson 3</td>
<td>45 minutes</td>
<td>75 minutes</td>
</tr>
<tr>
<td>Lesson 4</td>
<td>45 minutes</td>
<td>75 minutes</td>
</tr>
</tbody>
</table>
Estimated Total Study Time | 8 hours

Prerequisite(s)

None

Earning Credit

Minimum Passing Grade

To earn credit for this course, students must earn a minimum average grade of 70% or higher. A complete list of requirements is provided in the Course Requirements document.

Grading Policies

Grade Weighting

<table>
<thead>
<tr>
<th>Assignment Category</th>
<th>Number</th>
<th>Grade Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Your Knowledge Quizzes</td>
<td>55</td>
<td>5%</td>
</tr>
<tr>
<td>Module Practice</td>
<td>10</td>
<td>5%</td>
</tr>
<tr>
<td>Module Evidence</td>
<td>10</td>
<td>15%</td>
</tr>
<tr>
<td>Module Quizzes</td>
<td>10</td>
<td>25%</td>
</tr>
<tr>
<td>Course Exam 1</td>
<td>1</td>
<td>25%</td>
</tr>
<tr>
<td>Course Exam 2</td>
<td>1</td>
<td>25%</td>
</tr>
</tbody>
</table>

Assignment Grading Descriptions

<table>
<thead>
<tr>
<th>Assignment Category</th>
<th>Description</th>
</tr>
</thead>
</table>
**Check Your Knowledge (CYK) Quizzes**
Multiple-choice quizzes that are autograded. Students may take these as many times as desired to practice for Module quizzes. Students receive full credit for attempting each CYK quiz but must complete it at least once to earn participation credit.

**Module Practice**
Short answer, auto, and manual grading. Students may take only once. Students receive full credit for completing.

**Module Evidence**
Short answer activities that are either auto-graded or graded manually by an instructor with feedback provided according to an assignment rubric. Students receive full credit for completing each activity according to the assignment rubric.

**Module Quizzes**
Multiple-choice quizzes that are auto-graded. Students may take only once.

**Course Exam 1**
Proctored, multiple-choice exam that is auto-graded. Students may take only once.

**Course Exam 2**
Proctored, multiple-choice exam that is auto-graded. Students may take only once.

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**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90.0 – 100.0%</td>
</tr>
<tr>
<td>B</td>
<td>80.0 – 89.9%</td>
</tr>
<tr>
<td>C</td>
<td>70.0 – 79.9%</td>
</tr>
<tr>
<td>D</td>
<td>60.0 – 69.9%</td>
</tr>
<tr>
<td>F</td>
<td>59.9% or below</td>
</tr>
</tbody>
</table>

*To earn credit for this course, students must earn a minimum average grade of 70% or higher.

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**Course Policies**

**Academic Integrity**

Students assume the responsibility for maintaining honesty and integrity in all work submitted (for credit and not for credit) in the course. Academic dishonesty includes, but is not limited to:
Cheating
Fabrication
Hacking
Plagiarism
Reusing or re-purposing your own work
Unauthorized collaboration

Students engaging in academic dishonesty are subject to losing credit for a quiz or assignment, or being denied credit for the course.

Exams

In this class you will take your tests remotely and they will be proctored by a service called Examity®. A Student Quick-Guide will be provided on how to use Examity®. Please log in as soon as possible to set up your profile. You will not be able to schedule exams until your profile is complete.

Examity® system requirements are:

- Desktop computer or laptop (not tablet)
- Webcam and microphone (built-in or external)
- Connection to network with sufficient internet speed: at least 2 Mbps download speed and 2 Mbps upload
- Operating systems: Windows XP or newer, Mac OS X 10.8 (Mountain Lion) – or newer
- Browser with pop-up blocker disabled: Google Chrome v39 or later, Mozilla Firefox v34 or later, Internet Explorer v8 or later, Microsoft Edge, Apple Safari v6 or later
- In your Examity Dashboard, please run the Computer Requirements Check to ensure your system is ready to test

If you have any questions or concerns, contact Examity’s technical support team 24/7 via email at support@examity.com or phone at (855)-392-6489.

Disability Services Statement

TEL Library is committed to providing equitable student access to course content and materials by providing reasonable accommodations for all persons with disabilities. Any student seeking to request academic accommodations on the basis of a documented disability should contact the TEL Library support team at disabilityservices@tellibrary.org to coordinate reasonable accommodations.
Course and Technical Support

If you have a question about course requirements, a technical issue, or other issue while taking this course, please contact our support team at support@tellibary.org. The TEL Library support team member will prioritize your request and respond accordingly.

Technical Requirements

This course is delivered 100% online and you will be required to have access to a computer, laptop, or web-capable mobile device — along with consistent access to the internet — to access course material and complete assignments.

To access course materials including lectures, quizzes, assignments, and exams, you will need to be logged into your TEL Library account and enrolled in the course. Although you can access some course material without being logged into your TEL Library account, you will need to be logged in to access the entire course and to complete graded assessments.

To access detailed information about the minimum hardware requirements necessary to take full advantage of TEL Library courses, visit the course home page.