Term: (WINTERMESTER 2019-2020)
Course: MATH-1342-42490
Course Dates: 12/16/19 - 12/23/19 and 1/02/19 - 1/10/20
NO CLASS 12/24/19 - 1/01/20 (Campus closed for Winter Holidays)
Final Exam: 01/10/2020
Class Location: ONLINE

| Instructor: | Dr. Alla Kelman |
| Phone: | 972-860-7067 |
| Email: | allakelman@dccc.edu |
| Instructor will reply to emails within 24-48 hours during week days. Not available on holidays and weekends. |
| My preferred method of contact is email. Please keep in mind that it is against the law (FERPA) for me to discuss grades with you via phone or email. See me in person if you need to discuss your personal academic progress or grades in this course. |

| Office & Office Hours: | OFFICE: BUILDING C, ROOM C210 |
| OFFICE HOURS: | By appointment only. |
| Allow 24-48 hours for scheduling of all appointments. |

STEM Division: C-Building, Room 202 | 972-860-7297

| Course Drop Date: | 12/18/2019 |
| Certification Date: | 01/06/2020 |

Disclaimer: The instructor reserves the right to amend this syllabus as necessary.

Institutional Policies: Eastfield College Institutional Policies (www.eastfieldcollege.edu/syllabipolicies)

Course Description:
Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. (3 Lec.)

Prerequisite:
Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0310.
Textbook and Other Course Materials:

- **Calculator**: Students are required to have access to a graphing calculator for this course. While other models may be acceptable, the TI-83 and TI-84 calculators are strongly preferred. Instructions on how to use technology to apply concepts are at the end of relevant sections under the heading “Technology Step-by-Step.” TI-Nspire CX CAS is not allowed in this class.
- **MyStatLab**: Microsoft Windows 7 and 8 users should use one of the following browsers with MyMathLab courses-- Chrome, Firefox or Internet Explorer 10 and 9. Click [here](#) for other system requirements.

Please note that in this section of MATH 1342, MyStatLab access is required, but the paper text is not required. MyStatLab access is not included with the purchase of a used book, and may not be included with the purchase of a new book. Therefore, use caution when purchasing your textbook. Make sure you are very careful in purchasing MyStatLab access code for this course as the access code directly correlates to this book.

Instructional Methodology:

This course is taught exclusively online with homework, quizzes, and most tests (with the exception of the final exam) required on internet based computer software. There are also Module Learning Activities that can be found in our course in eCampus.

Websites: [http://ecampus.dcccd.edu](http://ecampus.dcccd.edu/) and [www.coursecompass.com](http://www.coursecompass.com)

For Course ID please see Registration Instructions Handout located in eCampus.

Student Learning Outcomes:

After completing this course, the student should be able to:

1. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
2. Recognize, examine and interpret the basic principles of describing and presenting data.
3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics.
4. Explain the role of probability in statistics.
5. Examine, analyze and compare various sampling distributions for both discrete and continuous random variables.
6. Describe and compute confidence intervals.
7. Solve linear regression and correlation problems.
8. Perform hypothesis testing using statistical methods.

Core Objectives:

MATH 1342 develops the following Core Objectives:

1. **Critical Thinking** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. **Communication** - to include effective development, interpretation and expression of ideas through written and visual communication.
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Core Objective Development Statements: MATH 1342 develops **Critical Thinking, Communication, and Empirical and Quantitative Skills** by requiring students to collect, analyze, present and interpret data and probability.

**INSTRUCTIONAL COMPONENTS:**
This course is divided into modules. The components of each module are described below.

Step 1: Video – Video lecture introduces each section of module
- Must be accessed before each homework assignment
- Grade omitted from course average

Step 2: Homework – Consists of problems from each section
- Problem can be repeated until mastered – select “Similar Exercise” after each 3rd incorrect attempt
- All “Help” buttons available
- Must be in “Homework,” not “Review” mode to save progress
- Problems saved individually

Step 3: Quiz – Consists of problems that summarize one or multiple sections.
- Must be completed immediately following the homework for the relevant sections
- There is no time limit on these assignments
- Must complete the quiz in one sitting
- Unlimited attempts allowed for each quiz with only the best score taken into account
- None of the “Help” buttons available.

Step 4: Test Review – Helps prepare students for module test
- Score NOT included in homework average

Step 5: Test – Assesses student understanding of module
- Must be in lockdown browser mode
- Must be completed within 120 minutes
- None of the “Help” buttons available.
- Reviewed by student only immediately after submission
- Two attempts are allowed per each test with the highest attempt taken into account.

Once you are finished with assignments in MyStatLab for a module, please access eCampus. In eCampus you will find a button called Course Documents. In Course Documents you will find a folder with Module Learning Activities. Each Module has a Module Learning Activity. Some Module Learning Activities contain more than one module. Please see more information for Module Learning Activities in the Module Learning Activity section of this syllabus.

**GRADING POLICY:** Grades will be determined as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework Average using MyStatLab (All homework assignments are due January 10th, 2020, by 11:59 p.m.)</td>
<td>15%</td>
</tr>
<tr>
<td>Quiz average using MyStatLab (All quiz assignments are due January 10th, 2020, by 11:59 p.m.)</td>
<td>15%</td>
</tr>
<tr>
<td>Average of two Orientation Quizzes using eCampus and MyStatLab (Due December 16th, 2019, by 11:59 p.m.)</td>
<td>4%</td>
</tr>
<tr>
<td>Submission of your photo via email (Due December 16th, 2019, by 11:59 p.m.)</td>
<td>2%</td>
</tr>
<tr>
<td>Discussion board introductions in eCampus (Due December 16th, 2019, by 11:59 p.m.)</td>
<td>4%</td>
</tr>
<tr>
<td>Average of Module Tests using MyStatLab (All Module Test assignments due January 10th, 2020, by 11:59 p.m.)</td>
<td>20%</td>
</tr>
</tbody>
</table>
Average of Module Learning Activities
(Due dates are listed in the Module Learning Activities section of the syllabus and the Course Pacing Calendar)

<table>
<thead>
<tr>
<th>Part</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15%</td>
</tr>
<tr>
<td>2</td>
<td>25%</td>
</tr>
</tbody>
</table>

Final Exam:
Part 1: Via email to Professor Kelman (attach to email).
Due by January 10th, 2020, by 5:00 p.m.
Part 2: Comprehensive paper and pencil, at Eastfield College testing center on January 10th, 2020, must be submitted by 5:00 p.m.

GRADING RATIONALE:  
A: 90–100%;  B: 80–89%;  C: 70–79%;  D: 60–69%;  F: below 60%

MODULE LEARNING ACTIVITIES:
A series of Module Learning Activities have been designed to improve your study of statistics by applying concepts learned throughout chapters. They should be meaningful and fulfill the course’s learning outcomes while assessing the core objectives skills. Module Learning Activities are paper and pencil activities and will be completed at home. These activities will be due by the designated due dates listed on the course pacing calendar. Activities submitted late will not be accepted. No credit will be given for answers on these assignments without supporting work. All work on the activities must be shown on each problem in order to receive credit for the problem.

When submitting these assignments, every page should have your name, your course and section number, and the name of the document that you are submitting (EX: Jane Doe, Math 1342 section 42490, Module Learning Activity 1). Without these items, you will not receive credit for your work. You may scan your work or take pictures of it with your phone or camera. Only one (1) document should be submitted in the email. If you have multiple images, open a word document and drag the pictures over to that file. The file name (.doc or .pdf only) should contain the following information: your name, your course and section number, and the name of the document that you are submitting. Once you have done this, open the document and check that it is readable and that each piece of paper that you used is full size on a separate page in the document. If I cannot read your submission, no credit will be given. Your instructor will print your submissions for grading, thus check your document as it would appear when printed. Documents must be sent as attachments to emails. They cannot be google docs or one-drive docs or zipped folders with multiple documents in them. I will only open one item to print, and I do not log in to another application to access your work. If you have any questions please contact professor Kelman.

Due dates of Module Learning Activities:
Learning Activity 1: Modules 1 and 2 is due December 18th, 2019 by 11:59 p.m.
Learning Activity 2: Modules 3 and 4 is due December 22nd, 2019 by 11:59 p.m. CT
Learning Activity 3: Modules 5 and 6 is due January 4th, 2020 by 11:59 p.m. CT
Learning Activity 4: Module 7 is due January 6th, 2020 by 11:59 p.m. CT

FINAL EXAMINATION:
A comprehensive, departmental final examination, which will represent 25% of the class grade, will be administered in this class. Please notice that final exam is a TWO part exam.

Part 1: Core Artifact Assignment. Please see EASTFIELD COLLEGE CORE ARTIFACT ASSIGNMENT section of the syllabus.

Part 2: Multiple Choice. Taken at Eastfield College Testing Center. You will need your photo ID when taking final exam at Eastfield College Testing Center.

You may not take/complete the final exam late nor can you make up or retake that assessment.
For example:

A student, Jane Doe, has the following grades at the end of the semester.

Homework Average (on MyStatLab): 90%
Online quiz Average (on MyStatLab): 73%
Ecampus orientation quiz: 100%
MyStatLab Orientation quiz (on MyStatLab): 100%
She submitted photo on time: 100%
She completed discussion board introduction on time: 100%
Average of Module Tests (on MyStatLab): 86%
Average of 4 Module Learning Activities (submitted to Dr. Kelman via email): 100%
Comprehensive Final Exam (at Eastfield College Testing Center and submitted on time Core Artifact): 77%

Here is the formula to be used in this class to determine numerical grade for the course:

\[
(MyStatLab\text{\ Homework\ Average} \times 0.15) + (MyStatLab\text{\ Quiz\ Average} \times 0.15) + (Average\ of\ two\ Orientation\ Quizzes \times 0.04) + (Photo\ Submission \times 0.02) + (Discussion\ board \ introductions \times 0.04) + (Average\ of\ Module\ Tests \times 0.20) + (Average\ of\ Module\ Learning\ Activities \times 0.15) + (Comprehensive\ Final\ Exam \times 0.25)
\]

Here is how Jane’s numerical grade will be determined:

\[(90 \times 0.15) + (73 \times 0.15) + (100 \times 0.04) + (100 \times 0.02) + (100 \times 0.04) + (86 \times 0.20) + (100 \times 0.15) + (77 \times 0.25) = 85.9\]

To convert Jane’s numerical grade into the letter grade follow the following distribution:

A: 90-100%;  B: 80-89%;  C: 70-79%;  D: 60-69%;  F: below 60%

Since Jane’s numerical grade came to be 85.9 it falls in the interval between 80 and 89, thus her letter grade is a B.

**POLICY ON MISSED TESTS AND ASSIGNMENTS:**

There are no make-up assignments in this class. All assignments have strict deadlines. Due dates are non-negotiable and can be viewed in MyStatLab and in the Course Pacing Calendar.

**FINAL EXAM PART 1 AND PART 2:**

**PART 1 OF THE FINAL EXAM: EASTFIELD COLLEGE CORE ARTIFACT ASSIGNMENT:**

This assignment will be graded on completion:

Fully Completed = 10 points; Not Fully Completed = 0 points.

Core Artifact Assignment is Part 1 of the final exam and must be submitted via email to Professor Kelman by January 10th, 2020, by 5:00 p.m.. Late assignment submission will not be accepted.

**PART 2 OF THE FINAL EXAM:**

This part of the final exam for this course will be a multiple choice paper and pencil test and must be taken at Eastfield college testing center on January 10th, 2020, by 5:00 p.m.. The Eastfield College Testing(Assessment) Center is located in Building C, Room 113. Please contact Eastfield College testing location for hours of operation. Keep in mind that tests are not issued to students one hour before closing and one hour before test is due. You can contact the testing center at 972-860-7011 for more information.
Students must be present for the final exam. You may not take/complete the final exam late nor can you make up or retake that assessment.

**ATTENDANCE POLICY:**
Please note that for certification purposes, participation in the course is defined as students registering for the course and accessing course materials on MyStatLab. If you have not logged into MyStatLab and did not complete three part orientation assignment by the certification date you will not be certified. The due date for the three part orientation is listed in our Course Pacing Calendar.

You are expected to regularly log in to eConnect, eCampus, and MyStatLab to complete work for the course in which you are enrolled. Students have the responsibility to consult with the instructor when a deadline cannot be met.

If a student is unable to complete a course (or courses) in which he/she is registered, **it is the responsibility of the student to withdraw from the course by the appropriate date**. (The date is published in the academic calendar each year and in each semester’s class schedule). If a student does not withdraw, he/she will receive a performance grade, usually a grade of “F”.

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 TX Educ. Code.

Please remember that students will be taking Modular Tests on the computer in MyStatLab. However Part 2 of the final exam must be taken at Eastfield College testing center. All deadlines cannot be changed unless required by Eastfield College. If you have any questions please contact your instructor via email as soon as possible. Please remember that Eastfield College testing center does not issue tests one hour before they close and/or one hour before test is due.

**CLASSROOM ETIQUETTE:**
As with all communication, be sure that your comments are appropriate and respectful of the diversity of thought that exists in this course. All communication should promote a positive, safe and productive learning environment for all. Follow Rules of Netiquette every time conversing with me or your classmates online and face-to-face.

**DROP POLICY:**
To drop a class or withdraw from the college, students must follow the prescribed procedure. **It is the student’s responsibility to drop or withdraw.** Failure to do so will result in receiving a performance grade, usually grade of “F”. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a “W” (Withdraw) in each class dropped. The deadline for receiving a “W” is indicated on the academic calendar, the current class schedule and our course syllabus. If you are unable to complete this course, you must withdraw from it by the designated drop date. For more information, contact the Admissions/Registrar’s Office at Eastfield College.

**ADDITIONAL RESOURCES:**
The Eastfield College Tutoring Services ([https://www.eastfieldcollege.edu/services/academic-support/tutoring/pages/default.aspx](https://www.eastfieldcollege.edu/services/academic-support/tutoring/pages/default.aspx)) provides tutoring in Mathematics and Developmental Mathematics. Students are encouraged to take advantage of this service for additional help in their course work. The Eastfield College Tutoring Services are located in the Eastfield College library, and the phone number is 972-860-7062. Additionally, students can check-out TI – 84 calculators on a daily basis from the library. Visit the link above for more information on tutors, hours of operation and policies.
MYSTATLAB TECHNICAL SUPPORT:
If you are having technical issues with MyStatLab, or require assistance with installing plug-ins or configuring your computer, you can contact Pearson Product Support team as follows:

<table>
<thead>
<tr>
<th>Call Toll Free: 1-800-677-6337</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday - Friday, 8 AM to 8 PM EST (US and Canada)</td>
</tr>
<tr>
<td>Sunday, 5 PM to 12 AM EST (US and Canada)</td>
</tr>
</tbody>
</table>

There is also a 24 hour website support for Live Chat: [http://mymathlab.com/contactus_stu.html](http://mymathlab.com/contactus_stu.html) or [https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/support/](https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/support/)

NOTE: Allow time for computer/internet problems -- do not wait until the last minute to submit work. This is an online class. You are expected to have a computer and internet access available to you. There are computers on campus, however access to them is only available when Eastfield College is open and only during operating hours. The website being down or your computer or internet access not working at the last minute is something you should expect. No extensions are given for any reason.

COURSE COVERAGE:

<table>
<thead>
<tr>
<th>Sections</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 – 1.6</td>
<td>Practices of statistics, Observational and experimental studies, Sampling, The design of an experiment</td>
</tr>
<tr>
<td>2.1 – 2.4</td>
<td>Qualitative and quantitative data, Time-Series data displays, Misrepresentation of data</td>
</tr>
<tr>
<td>3.1 – 3.5, 4.1 - 4.2</td>
<td>Measures of central tendency, Measures of dispersion, Grouped data, Measures of position, Outliers, Scatter Diagrams, Correlation, Regression</td>
</tr>
<tr>
<td>5.1 - 5.5</td>
<td>Probability rules, Addition and complement rules, Independence and multiplication rules, Conditional probability and the general multiplication rule, Counting techniques</td>
</tr>
<tr>
<td>8.1 – 8.2; 9.1 - 9.2 &amp; 9.4</td>
<td>Distribution of the sample mean and sample proportion, Estimating a population proportion and mean, Putting it all together</td>
</tr>
<tr>
<td>10.1 - 10.3 &amp; 10.5, 13.1</td>
<td>Language of hypothesis testing, Hypothesis testing for a population proportion and mean, Putting it all together, ANOVA</td>
</tr>
</tbody>
</table>

SYLLABUS REVISION:
The guideline in this syllabus may be changed, deleted, or amended at any time by the instructor. Course outline and course pacing calendar is intended as an aid in helping you know your responsibilities for the semester. It is possible that some changes in the course outline, course pacing calendar or class policies will be made during the semester. Any changes that are made to the class policies or course outline will be announced on the Announcement page in eCampus.

For Course Pacing Calendar, see our course in MyStatLab and our course in eCampus.

<table>
<thead>
<tr>
<th>Assessment (Testing) Center</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Building C, Room 113</strong></td>
</tr>
<tr>
<td>Monday-Thursday</td>
</tr>
<tr>
<td>Friday</td>
</tr>
</tbody>
</table>

Tests are not issued to students one hour before closing, as well as one hour before tests are due.
Final submission date for all MyStatLab homework (except MyStatLab orientation quiz), MyStatLab quizzes, and MyStatLab Modular tests is **January 10th, 2020, by 11:59 p.m.**

ALL DEADLINES CANNOT BE CHANGED UNLESS REQUIRED BY EASTFIELD COLLEGE. IF YOU HAVE ANY QUESTIONS REGARDING SUGGESTED TIMELINE CONTACT YOUR INSTRUCTOR AS SOON AS POSSIBLE.

Revised: August 18, 2019