GENERAL INFORMATION

College Name: Eastfield College
Div. Name/Contact Info: STEM Division/C202/972.860.7297
Semester/Term & Year: 2020 Spring (3/30/20 – 5/13/2020) – 8 Weeks Harvest Term II

INSTRUCTOR INFORMATION

Name: Dr. Egedigwe Eges
Telephone: 972.860.8316
E-mail: eges@dcccd.edu
Office Number: L307
Office Hours: Available on the Office door or MTWR 9:00 – 10:00 AM (Eastfield) or F 1:30 – 2:30 PM Seagoville High School or by appointments (Make appointments via E-mail)

COURSE INFORMATION

Course Title: Programming Fundamentals II - using C#
Course Number: COSC-1437
Section Number: 40411
Credit Hours: (4Cr)
Class Meeting Time: This class is Online.

COURSE DESCRIPTION

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. This course may use instructional examples and assignments from various programming languages including but not limited to C#, C, Objective-C, C++, and/or Java. (This course is included in the Field of Study Curriculum for Computer Science.) COSC 1437 will satisfy the Associate in Sciences degree general elective requirement. This course will fulfill degree requirements established by the colleges of DCCCD only if this course has been successfully completed and the date of completion does not exceed 10 years. [3 Lec. 3 Lab]

COURSE PREREQUISITES

COSC 1436 and college-level algebra (MATH 1314) or higher.

MANDATORY ONLINE ORIENTATION is required - Please go to “Start Here!” in Blackboard/eCampus (http://ecampus.dcccd.edu) to download/read a copy of this Orientation.

Class/LAB Hours: Open Lab in L202 (EFC Library) – 7am – 7pm.

COURSE OBJECTIVES/ LEARNING OUTCOMES

After completing the course, students will be able to:
- The goal of this course is to provide a comprehensive introduction to programming using Visual C#.NET.
• This course introduces the basic programming constructs of simple sequence, selection and iteration.
• The course shows how to create a number of different types of applications including console-based, Windows, and Web applications.
• The event-driven programming model, which is based on interactively capturing and responding to user input on Windows and Web forms, is covered. It includes instruction on developing applications using rapid application development techniques illustrating the drag and drop construction approach.
• From the beginning the course illustrates how to use the .NET predefined types, their member methods, data fields, and properties using an object-oriented approach to development.
• The course also illustrates how to create user-defined classes, standalone class libraries, and introduces a number of advanced object-oriented concepts.

COURSE OUTLINE
Note: This information is available on Blackboard (or eCampus) at the start of the semester.

REQUIRED OR RECOMMENDED MATERIALS

Required Textbook/Lab Materials:
• Title: C# Programming: From Problem Analysis to Program Design, 5th Ed.
• Author: Barbara Doyle.
• Year: 2016
• Publisher: Course Technology/Cengage Learning.

Highly Recommended Text and Practice software for LAB Assignments:
☐ You may search and download Visual Studio for writing and testing your codes. Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs for Microsoft Windows, as well as web sites, web apps, web services and mobile apps. You will need Microsoft Visual Studio.Net for this class. You can purchase it or download a free version from the Microsoft website or use the 60 day trial version. You may only use the software for academic purposes.

If you plan to work from home, you will need:
Microsoft Office 2016 Professional Edition (as a registered student of DCCCD, you can get Microsoft Office for home use — for Free! Use the following link to get details on this - www.dcccd.edu/MSOffice or https://www.dcccd.edu/SS/OnlineSvs/Pages/MSOffice.aspx)

Optional:
Additional Materials: Scantrons, disks/diskettes/Flash drives, and other materials may be required. The instructor will provide information regarding when these materials will be needed. Internet Connection is required (high speed preferred). The Lab is located in L200 for those that want to use that.
Graded Work
The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated.

Summary of Graded Work
Table 1

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Weight</th>
<th>Points</th>
<th>% Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackboard Orientation LAB0</td>
<td>0%</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Bonus Quiz0 – PreCourse Assessment Test/Quiz</td>
<td>1% Bonus</td>
<td>10 Bonus</td>
<td>1% Bonus</td>
</tr>
<tr>
<td>Programming Assignments</td>
<td>5 @ 8% each</td>
<td>400</td>
<td>40% Bonus</td>
</tr>
<tr>
<td>Quizzes</td>
<td>3 @ 4% each</td>
<td>120</td>
<td>12%</td>
</tr>
<tr>
<td>Test/Exam1</td>
<td>23%</td>
<td>230</td>
<td>23%</td>
</tr>
<tr>
<td>Test/Exam2 (Final Exam)</td>
<td>25%</td>
<td>250</td>
<td>25%</td>
</tr>
<tr>
<td>Bonus Programming Lab</td>
<td>2% Bonus</td>
<td>20 Bonus</td>
<td>2% Bonus</td>
</tr>
<tr>
<td>Total</td>
<td>1000 + 30 Bonus</td>
<td>100% + Bonus</td>
<td>100% + Bonus</td>
</tr>
</tbody>
</table>

Final Grade
Your grade will be determined on what you earn on the class work. I do not give grades, you earn them. Remember that at the end of the semester, your grades will be available to you on the on-line grade book. So, you should know what grade you have at all times.

The class is designed to be "bottom heavy" in terms of grading. In other words, the first part of the class is for you to learn and make mistakes. The second half is for you to apply what you learned. Plan accordingly. The “1000-Point Grading System” will be used for determining your grade. You can use this to figure out where you stand on the grading scale at any point throughout the semester by simply adding up the points you have earned. The following scale will convert your weighted numerical score into a letter grade. Fractional values are rounded.

Table 2

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 and above</td>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>800 - 899</td>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>700 - 799</td>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>600 - 699</td>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>below 600</td>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

EVALUATION CRITERIA EXPLAINED:
- Students are expected to be active participants in each class meeting. Full credit for participation will be extended to students who regularly ask questions, share observations, and contribute relevant personal experiences.
- The tests or examinations will consist of objective questions and will require a technological comprehension that covers the lecture material and assigned readings.
The assignments and class participations will consist of a number of individual in-class and homework tasks. Students will be given specific guidance on the amount of collaboration permitted for each assignment. Unless otherwise specified, all assignments are individual assignments, and thus must be completely the original work of the student submitting them and include proper citations to the published work of others.

**Examinations/Tests:**
There will be three (3) noncumulative examinations/tests and projects. The content will come from the text and other material presented in lecture sessions as well as labs. Note that material presented in class and in lab will supplement the assigned reading. Therefore, class attendance and good note taking are essential tactics for success. The tests/exams will consist of multiple choice, true/false, fill in the blanks, and possible essay questions. Make-up exams are not given. Please use the “Evaluation Procedure” above to find out the number of tests/exams and their scope.

Exams/Tests must be taken as scheduled. It is very highly recommended that you take the EXAMS/TESTS AS SUGGESTED before they are withdrawn. Final Exam/Test IS REQUIRED. NO MAKE-UP TESTS. No exceptions. Each major exam will focus on material(s) covered since the previous exam, but may include topics previously covered.

**Laboratory/Project Assignments:**
- You must complete the Online/Blackboard Orientation by the due date to be considered as a registered student for this class.
- You will complete all assignments and submit ON or BY the Deadline or Due Dates. Late submission of assignments will be assessed a penalty of 4 points per day for each part for those that are not automatically withdrawn – like the lab assignments. If an assignment is past due more than the total points awarded for that assignment, you may not receive any more than half of what it is worth.
- Exercises, projects, labs, and other activities will be periodically assigned to reinforce the material in the text. These assignments will require the use of a computer. Computer-based assignments can be completed on campus or at home, if you have a home PC with the appropriate software.
- Projects/Labs must be done in Microsoft Office. Projects/Labs are only accepted in the course via the “Assignments/Projs/HWK” link on Blackboard (or eCampus) and NOT through email. See individual assignment requirements in Blackboard. Be sure to check the grade book in Blackboard for an acknowledgement for each assignment submitted.
- Late submission of projects/assignments will be accepted at a penalty of -4 points per day, including weekends.

**Quizzes:**
Quizzes are given throughout the semester, at a rate of approximately one per chapter. Quizzes will always cover the material covered since the last quiz or exam. The quizzes will be combinations of objective and/or short-answer questions. Quizzes will be administered online via Blackboard. Makeup quizzes will not be given. Any class material missed by the student is the student's responsibility to acquire.

**Extra Credit Assignment (Project or Examination) (Xtra):**
Extra Credit assignment (either an exam/test or project(s)) will be provided to help students’ success. If it is a project, it will be made available to all the students and you must submit the project by the due date or loose that point. If it is an exam/test, you will be responsible to read and study the chapters assigned. You may bring questions to class on these chapters, but you are responsible for studying the chapters thoroughly before the test is administered. No Make-up exams/test for the extra credit. You must be present to earn this credit.

Class Participation (CP)/Discussion Questions (DQs)/Group Projects (GPs):
Weekly/Daily participation in class and outside class may also be assigned to enhance the learning process. Make efforts to complete and submit this on/before the due dates. This may come in the form of discussion questions via the Discussion forum of Blackboard and/or individual/group participations in class or online.

Attendance Policy:
The instructor expects your attendance at each and every class; however, actual attendance is up to the student. Grade performance is a demonstrated function of attendance, preparation, and participation. You can get behind very easily by skipping classes, resulting in a poor understanding of the material, which will show up as a poor grade for the class. Any class sessions missed by the student are the student's responsibility to make up, not the instructor's. Late arrival that causes disruption, early departure that causes disruption, excessive conversation among students (a disruption in its own right), inappropriate use of electronic devices that cause disruptions and other actions that disrupt the classroom are unacceptable. (Note: Attendance policy for Online classes is evaluated based on class/discussion participations and completion of assignments/Labs on time.)

Remember, I am here to help you successfully complete this course. You are always welcome to contact me and ask questions. If you have any questions or concerns, please feel free to talk to me before or after class or email me at eges@dcccd.edu. I would encourage you to contact me so that we can discuss issues, concerns or just discuss your interests in this course. You may also hold discussion with other students as well, but you are expected to do assignments on your own. This course is more than just taking test and accumulating points. I want you to have the opportunity to learn and to grow in your knowledge of computers and sharing ideas and thoughts will assist in this process.

Course Drop Date: May 4 (M) - Last Day to Withdraw.

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

Institutional Policies: