

Oakland University
School of Computer Science and Engineering
Syllabus
CSI 1300-001 (Online Course)
Introduction to Computer Programming (4)
CRN 14437 4 credits

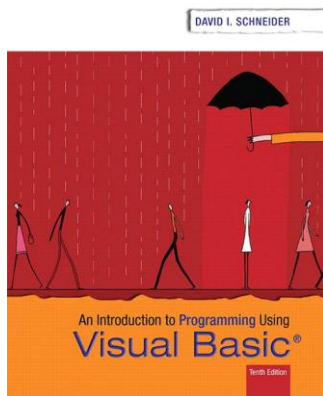
Semester: Winter 2018 (Jan 03 – Apr 17)

Lecturer: Mary Angeles, Ph.D., Computer Science; MS Computer Science; MATM Mathematics; BS Mathematics, CISSP

Office Hours: As arranged by email request

Email: angeles@oakland.edu

Required Text:



Introduction to Programming Using Visual Basic, by David I.

Schneider, Pearson Education Inc. 2017. ISBN: 978-0-13-452158-9 Pearsonhighered.com. Please download all the student resources at the Pearson Website for this textbook. Directions are on the inside of the front cover of your text. There are student files you will need for your assignments as well as other helpful tools. Answers to odd-numbered problems can be found at the back of the book.

Dropping the Course

Please communicate with me before dropping the course; in fact, please communicate with me the minute you are having any difficulty with the class, the book, or any assignment. We can work through most problems. The last day for a 100% refund is Jan. 17, 2018. The last day for official withdrawal is Mar. 14, 2018 at 4:00 PM.

Required Software

Moodle and Webex

Moodle is Oakland University's learning management system. You will use Moodle to participate in online activities and to progress through the course. You can access Moodle at <http://moodle.oakland.edu>. Login with your university supplied NETID username and password.

Ad hoc meetings will be held using WebEx. I will guide you in using WebEx for the first time when we make contact by phone.

Visual Studio 2015 and Windows OS

We will be using **Visual Studio 2015**. It is available in the student lab in EC 560 24 hours a day and seven days a week. Instructions for using the computers are posted in the lab. If you encounter problems with the software in the lab, contact SECS help. You can see how to contact them by clicking on the “CTO” tab for contact information at <https://wwwp.oakland.edu/secs/student-resources/technology-offices/>

A Lab in DH167 may be available if there is no class in progress. To get into the EC building on weekends, or to get into the labs on any day, you must know the last 4 digits of your Grizz ID, and have your student ID card with you. Card scanners next to the doors have instructions posted on them. Sometimes it takes up to two weeks for all ID’s to be programmed into the security access system, so your ID may not give you access the first time you try to enter a lab. Everyone should use Visual Studio in the Lab at least one time to make sure you will be able to work there in an emergency. Not having the software on your computer at home or a crashed computer are not valid excuses for late assignments.

A free edition of **Visual Studio 2015** is also available for download from the SECS web site, but may not work on all computers or under all operating systems. To download the free software, go to: <https://oakland.edu/secs/student-resources/technology-offices/>. Click on the “Resources” tab and then click on “Dream Spark” under “Software Distribution”. Download the Community version of Visual Studio 2015. It may expire in 30 days, so save the install files for the re-install.

Other Required Software

We will also use Microsoft Word, Excel, PowerPoint, and a text editor. All Windows computers have Wordpad, which can be used in place of MS Word, and all have the Notepad text editor in the accessories list. Use Notepad or better, Notepad Plus (free download) for copies of your code when you need to save it outside the Visual Studio environment. You can obtain a free copy of an office suite at openoffice.org which is compatible with MS Office. You can obtain a free copy of Microsoft Office at this address: <https://products.office.com/en-us/student/office-in-education>. Microsoft Office is available in the student Lab as well.

You must be able to zip a folder that can be submitted to Moodle and opened on a Windows computer. Do *not* submit PDF documents or any hand-written documents. Zipping instructions are posted in the Moodle Announcements.

Technical Assistance

For Moodle technical issues that you cannot resolve on your own, please contact the e-Learning and Instructional Support office:

Phone: (248) 805-1625

Submit a help ticket: <http://www2.oakland.edu/elis/help.cfm?lms=2>

For general PC issues call the OU Helpdesk
Phone: (248) 370-HELP

Special Needs

Please email the instructor within the first week of class if you have a documented disability. Provide a verification document from the Student Disability Services as an email attachment. Describe any special accommodations you need.
www.oakland.edu/dss

Course Catalog Description: **(4 credits)**

Introduction to digital computers and algorithmic programming. Topics include: data storage and manipulation control structures, functions and sub-programming. Introduction to object oriented programming. Students cannot receive credit for both EGR 141 (or EGR 1400) and this course. Offered fall, winter. Satisfies the university general education requirement in the formal reasoning knowledge foundation area. (Formerly CSE 130 or CIT 130)

Prerequisites

MTH 062 or MTH 0062 or equivalent.

General Education Learning Outcomes

Formal Reasoning

FR1. Knowledge of one or more formal reasoning systems such as computer programming, mathematics, statistics, linguistics or logic.

FR2. Applications of formal reasoning to read, understand, model and solve problems across a variety of applications.

Cross-Cutting Capacities

EC1. Critical thinking.

Course objectives: Upon completing this course, students should be able to:

- Approach computer problem solving via the program development cycle and by using various program development tools.
- Master the fundamentals of programming in Visual Basic .NET including controls, events, numbers, strings, and input / output.
- Develop more advanced Visual Basic .NET applications by using function procedures, sub procedures, modular design, selection structures, and repetition structures.
- Create arrays and use LINQ, as well as traditional methods, to manipulate array data.

- Manage the use of text files for input, output, and data storage.

Grading and Schedule

Milestones generally span one to two weeks, but will be adjusted as circumstances dictate. Each Milestone will include a number of tasks. These may include creating hierarchy charts, writing pseudocode, drawing flowcharts, completing Visual Basic projects, and answering questions in the textbook. Written answers and pseudocode will be completed using MS Word. Flowcharts and hierarchy charts will be completed using Excel. Code will be written in a text editor. You may use compatible software products, but no PDFs or hand-written or hand-drawn documents are allowed.

To determine your grade at any point, add the points you've earned for the elapsed milestones, exams and quizzes and divide by the total possible points for the elapsed milestones, exams and quizzes. The approximations for milestones may vary greatly – including the total number of points making each element worth a greater or lesser percentage of your grade. However, the total for the 8 quizzes will not vary from 800 points; the mid-term will not vary from 2000 points and the final will not vary from 1000 points. Do *not* consider the percentage grades or totals in Moodle. Due to the fact that you will be able to complete milestones and quizzes in advance of the due dates and the fact that some grades are over-riden, the *Moodle percentages and totals are misleading*.

Activity	Approximate Number	Approximate Points	Approximate Total Points	Approximate Percentage
Milestone Assignments	6-10	300-600	5400	54.00%
Online Quizzes	8	200	1600	16.00%
On campus Mid-term Exam	1	2000	2000	20.00%
Online Final exam	1	1000	1000	10.00%
			10000	100.00%

Grading Scale

Percentage	Final Grade
93.0 A	4.0
92.0	3.9
91.0	3.8
90.0	3.7
89.0	3.6
88.0	3.5
87.0	3.4
86.0	3.0
85.0	3.2
84.0	3.1
83.0 B	3.0
81.7	2.9
80.4	2.8
79.1	2.7
77.8	2.6
76.5	2.5
75.2	2.4
73.9	2.3
72.6	2.2
71.3	2.1
70.0 C	2.0
69.0	1.9
68.0	1.8
67.0	1.7
66.0	1.6
65.0	1.5
64.0	1.4
63.0	1.3
62.0	1.2
61.0	1.1
60.0 D	1.0
<.60.0 F	0.0

Class Policies

Participation

If this class was delivered in a Face2face format, you would spend 4 hours per week in class and, at a bare minimum, 4 hours per week completing the readings and assignments. Therefore, expect to spend a minimum of 8 hours per week for the online version of the course.

Participation will take place at your convenience via phone calls, and webex meetings in Moodle. Expect to receive emails from the instructor frequently – sometimes several times in one day.

They do not all require a response, but you will be expected to read all of them within 48 hours of posting. Not responding to any communication in a timely manner can adversely affect your grade. Email, webex and phone communication is vital in this class. Check your email and moodle daily. We will be using official Oakland College email, so if you are using a personal email client, check both. Professional conduct is expected. Use language and comments appropriate for a job interview in all communications.

Exams and Quizzes

The final exam and the quizzes will be administered online via Moodle. It is recommended that you take each quiz before you begin the associated reading and again as soon as you complete the associated reading. By taking it before reading, it will alert you to what you need to learn from the content. By taking it again after reading, you have the best chance for a high score.

One mid-term exam will be given in a classroom setting and is required. It will be conducted on Friday, March 2, 2018 from 5:30 PM to 7:30 PM and on March 9, from 5:30 PM to 7:30 PM. You will need to present picture ID to take the mid-term exam and will need a black pen (which may be the erasable type). If you have a problem being physically present for the classroom exam, you may use the University's approved proctoring service to take the exam online, but within the following time frame. The proctoring time frame begins at 6 AM on March 2, 2018 and ends at 6 AM on March 3, 2018. The vendor is ProctorU.com. There is a fee for using the service. Notify me at least two weeks in advance if you will need to use the proctoring service for the mid-term exam so that I can set it up for you.

Assignments:

Assignments may sometimes be posted well in advance of the due dates and can be submitted early, but *allow at least a week* after the due date *and* a week after submission for assignments to be graded. Assignments will be made available at least one week before the due date. Being unable to access moodle or use Visual Studio on your personal computer is not a valid excuse for lateness as the EC Lab is available 24/7. The EC lab computer has everything you need to complete any assignment in the term. You may be asked to explain your work at any time. *Work you cannot explain will be assumed to be someone else's work.*

Late assignments will lose 10 points but these points may be recouped via special assignment. If you miss a deadline by more than a week, your assignment may not receive credit. This will be decided on an individual basis.

In some instances, you may be allowed to re-submit an assignment after making *all* noted

corrections. Resubmit *only* after *all* corrections are completed and any missing parts are included. If any indicated corrections are not made or any part of the assignment is missing, your assignment will *not* be re-graded. Resubmit the zipped folder with the entire set of files for the assignment and include the latest feedback file. Submit only the latest version of any document. Once you resubmit an assignment, *send me an email message* asking that the resubmission be reviewed – *one email message per assignment and only one resubmitted assignment per day*. Do the same when asking for a late assignment to be graded. I do not return to grading a milestone after the due date unless requested by email. Resubmitted assignments take much longer to grade than the initial one, so make allowances. All resubmissions are graded after all regular assignments are graded and after all student requests for help have been processed. Thus, it can take a considerable amount of time before you receive feedback. If your resubmission is turned in more than a week after receiving feedback, your resubmitted assignment may not receive credit. This will be decided on an individual basis.

Prepare appropriately with backup plans Watch the lecture videos carefully and watch the Moodle forum for helpful documents and videos as they contain hints that will guide you in completing the assignments.

Assignments and schedules are subject to revision in order to benefit the class. No assignments can be submitted for grading or re-grading after Apr. 10, 2018, but the online quizzes and the online final exam may be re-submitted until the day the final exam is officially scheduled during the week after the last class on Apr. 17, 2018.

Academic Conduct:

Cheating is a serious academic crime. Oakland University policy requires that all suspected instances of cheating be reported to the Academic Conduct Committee for adjudication. *All* cases of suspected cheating will be turned into the Academic Conduct Committee for review.

It is assumed that ALL WORK THROUGHOUT THE TERM IS YOUR OWN! Handing in code, or a homework assignment that was obtained from someone else or **someplace else** or produced with automated software does constitute cheating. You may be asked to explain any submission to verify that it is your work. Routinely and randomly I will ask for an explanation of submitted work. *Work you cannot explain will be assumed to be someone else's work*. If you have difficulty with an assignment, I recommend you do not ask friends, relatives or other students for help as you need to be able to demonstrate that all your work is yours alone. I will be happy to help you whenever you get stuck, so please see me first.