

## Computer Programming for Engineers Lab, VB.NET Section

COP2271L (Section 6034)

*Class Periods and Location:* W 7-8 periods, FLG 230

*Academic Term:* Spring 2018

### **Instructor:**

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Office Hours: Tuesdays and Thursdays from 1:30pm to 2:30pm or by appointment, Weil 302B

### **Teaching Assistants:**

To be announced, please contact through the Canvas website

### **Course Description**

Laboratory course in conjunction with COP2271 (1 credit).

### **Course Pre-Requisite**

MAC2312 (Analytic Geometry and Calculus II)

### **Course Objectives**

Provide VB .NET language skills. Provide engineering problem solving skills using structured and object oriented programming. Provide experience in project development and meeting requirements.

### **Materials and Supply Fees**

none

### **Professional Component (ABET):**

This course supports the ISE undergraduate program educational objectives of producing graduates who

- “will be successful professionals in industrial and systems engineering or other disciplines”,
- “can acquire advanced knowledge through continuing education or advanced degree programs”
- “can become active leaders in their profession and/or community”

### **Relation to Program Outcomes (ABET):**

Outcome	Coverage*
a. Apply knowledge	Medium
b. Design and conduct experiments; analyze data	
c. Design a system, component or process	Medium
d. Function on teams	
e. Solve problems	Medium
f. Professional and ethical responsibility	
g. Communicate	
h. Impact of engineering solutions	
i. Lifelong learning	
j. Contemporary issues	Low
k. Techniques, skills, and tools for degree program	High

\*Coverage is given as high, medium, or low. An empty box indicates that this outcome is not part of the course.

### **Required Textbooks and Software**

No textbook is required. Lectures will be provided to students through videos posted on Canvas and in-class presentations. The development software required for this course is Microsoft Visual Studio .NET 2015, downloadable for free from Microsoft DreamSpark for Academic Institutions.

### **Course Schedule**

<b>Week</b>	<b>Topic</b>
1	Introduction & VB .NET Programming Basics
2	VB .NET Programming Basics
3	Decision Making (Branching Instructions) & <b>Quiz-1</b>
4	Loops & <b>Quiz-2</b>
5	Loops
6	Procedures
7	Procedures & Basic Data Structures & <b>Quiz-3</b>
8	Basic Data Structures
9	----- Spring Break -----
10	Object Classes
11	Object Classes & <b>Quiz-4</b>
12	Object Classes
13	File Processing
14	File Processing & Multi-Form Applications & <b>Quiz-5</b>
15	Multi-Form Applications & <b>Quiz-6</b>
16	Multi-Form Applications

The quiz dates shown above are tentative and subject to change with notice.

### **Attendance Policy and Class Expectations**

Attendance is not required; however, it is strongly recommended. It will be to your benefit to attend all lectures. Students will be responsible for all material covered in class.

Lectures are there to facilitate efficient learning, not chatting with friends, surfing the net, reading the Alligator, or sleeping. You should be focused on the course material and the in-class exercises assigned, not on activities that do not involve course work. Those who behave inappropriately will be asked to leave. If you cannot follow the lecture anymore, you can leave the class quietly; I will not be offended. Please, remember to turn off your cell phone as soon as you enter the classroom.

### **Make-Up Policy**

Excused absences require appropriate documentation.

If you missed an exam due to a health problem, you will need to provide documentation that indicates the date of the visit. A note indicating that you were seen at the health center the day of the exam is not sufficient documentation of a medically excused absence from an exam. The note must say that you were medically unable to take the exam.

In case of an exam conflict, you will need to present evidence of the conflict to the instructor.

Employment interviews, employer events, weddings, vacations, etc. are not excused absences.

## ***Assignments & Grade Disputes***

Your grade will be based on six announced in-class quizzes, the lowest of which will be dropped automatically.

All quizzes must be submitted via E-learning unless specified otherwise. Assignment deadlines are rigid. **If you do not submit before the deadline or submit the wrong file, you will receive a zero.** Only the instructor has the authority to grant late submissions.

Grade disputes must be made to the instructor within one week after grades are posted. Any grade dispute after the specified period will not be considered.

The following describes the procedure:

- (1) Within one week after your grade has been posted, e-mail the instructor requesting a grade breakdown,
- (2) Compare your solution to the solution posted on the web-site using the detailed grade breakdown you receive,
- (3) If you still have questions about your grade, to resolve the issue either go to the instructor's office hours or request an appointment.

## ***Grading Policy***

There may or may not be a curve applied on your grade at the end of the semester. This depends on the overall performance of the class throughout the semester. Please keep in mind that this is a challenging and time consuming class, and the percentage of As has historically been around 25%. You have to study hard and perform well in every class activity in order to deserve an A.

<b>Grade</b>	<b>Range</b>
<b>A</b>	[93, 100]
<b>A-</b>	[90, 93)
<b>B+</b>	[87, 90)
<b>B</b>	[83, 87)
<b>B-</b>	[80, 83)
<b>C+</b>	[77, 80)
<b>C</b>	[73, 77)
<b>C-</b>	[70, 73)
<b>D+</b>	[67, 70)
<b>D</b>	[63, 67)
<b>D-</b>	[60, 63)

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

## ***Students Requiring Accommodations***

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

## ***Course Evaluation***

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu/evals>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

## ***University Honesty Policy***

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

## ***Campus Resources:***

### *Health and Wellness*

#### **U Matter, We Care:**

If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392-1575 so that a team member can reach out to the student.

**Counseling and Wellness Center:** <http://www.counseling.ufl.edu/cwc>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

#### **Sexual Assault Recovery Services (SARS)**

Student Health Care Center, 392-1161.

**University Police Department** at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

### *Academic Resources*

**E-learning technical support**, 352-392-4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu).  
<https://lss.at.ufl.edu/help.shtml>.

**Career Resource Center**, Reitz Union, 392-1601. Career assistance and counseling. <https://www.crc.ufl.edu/>.

**Library Support**, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.

**Teaching Center**, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.  
<https://teachingcenter.ufl.edu/>.

**Writing Studio, 302 Tigert Hall**, 846-1138. Help brainstorming, formatting, and writing papers.  
<https://writing.ufl.edu/writing-studio/>.

**Student Complaints Campus:** [https://www.dso.ufl.edu/documents/UF\\_Complaints\\_policy.pdf](https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf).

**On-Line Students Complaints:** <http://www.distance.ufl.edu/student-complaint-process>.