INSTRUCTOR: Jim Kelley  
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Office Hours: See www.worwic.edu.

COURSE DESCRIPTION:
This course introduces the student to the basic principles of programming. Concepts are introduced using event driven, visual programming languages. The programming concepts covered include variables, calculations, decisions, repetition, arrays, graphics, and forms generation. The course covers the programming life cycle, analysis, design, coding, testing, and implementation. Students are introduced to using the internet and reference manuals for technological research and problem solving.  Two lecture and two laboratory hours per week.  
Laboratory fee: $15. This course is usually offered in the fall and spring semesters.

COURSE MATERIALS:

It is highly recommended that you have a flash drive to store your work.

COURSE OBJECTIVES: Each student will be able to:

1. Use the Visual Studio IDE (GEO 3,7)  
a. Start Visual Basic.NET  
b. Open an existing VB.NET project  
c. Create a new VB.NET project  
d. Use basic control objects  
e. Add code to a command button  
Assessment Strategy: Exam questions, quizzes, and graded lab exercises.

2. Perform calculations in VB.NET (GEO 1,2,3,4)  
a. Describe purpose of operators  
b. Use text boxes to get data from the user  
c. Use Val function to convert text to numerics  
d. Describe the order of operators  
e. Explain use of comments in programs  
Assessment Strategy: Exam questions, quizzes, and graded lab exercises.

3. Use the decision structures (GEO 1,2,3)  
a. Create “IF” statements in code to make decisions  
b. Use “IF...ELSE” statements  
c. Use Radio Buttons  
d. Program the Select Case statement  
Assessment Strategy: Exam questions, quizzes, and graded lab exercises.
4. Use the repetition structures (GEO 1,2,3)
   a. Explain what a loop is
   b. Use the Do While and Do Until loop structures
   c. Demonstrate the ListBox control
   d. Program using the FOR..NEXT loop
   e. Nest loop structures
   *Assessment Strategy: Exam questions, quizzes, and graded lab exercises.*

5. Program one-dimensional arrays (GEO 1,2,3)
   a. Declare an array
   b. Enter information into an array
   c. Access information in an array
   *Assessment Strategy: Exam questions, quizzes, and graded lab exercises.*

6. Create multiple forms for a project (GEO 1,2,3)
   a. Add an About box to a program
   b. Create a “Splash” screen
   c. Modify a form at run time
   *Assessment Strategy: Exam questions, quizzes, and graded lab exercises.*

7. Create Menus using the Menu object (GEO 1,2,3)
   a. Write code for a menu command
   b. Use check marks in menus
   c. Create sub menus
   *Assessment Strategy: Exam questions, quizzes, and graded lab exercises.*

8. Draw simple graphics from code (GEO 1,2,3)
   a. Draw lines, boxes and circles from code
   b. Draw polygons from code
   c. Create images from multiple objects drawn on a form
   *Assessment Strategy: Exam questions, quizzes, and graded lab exercises.*

9. Create simple web pages. (GEO 1,2,3,6,7)
   a. Use Visual Basic to create a simple web page
   b. View the web page in a browser window
   *Assessment Strategy: Exam questions, quizzes, and graded lab exercises.*

This course satisfies GEOs 1,2,3,4,6,7

**COURSE GUIDELINES**
The course will be 2 lecture and 2 laboratory hours each week. The lecture portion will give the student theory of computing. Laboratory hours are observed to give the student a chance to practice each lesson presented. Lab Exercises are monitored and evaluated during lab hours.

**COURSE EVALUATION**

1. Quizzes 150 points
2. Final Exam 250 points
3. Labs and Homework 400 points
4. Electronic Lab Assignment 100 points
5. Class Participation 100 points
**TOTAL 1,000 points**
Letter grade will be assigned as follows:
A = 900-1000 points – Excellent – An ‘A’ denotes intellectual initiative as well as high academic achievement.
B = 800-899 points – Good – A ‘B’ denotes above average completion of course requirements.
C = 700-799 points – Average – A ‘C’ denotes a satisfactory understanding of course principles and techniques.
D = 600-699 points – Poor – A ‘D’ denotes marginal understanding of course principles and techniques.
F - Less than 600 points – Unacceptable – An ‘F’ denotes that course requirements and standards were not met.

ATTENDANCE POLICY
Absence/Lateness: NOT ALLOWED
NO MAKEUP TESTS
If absolutely necessary for a very good reason (death, illness) please:
NOTIFY ME AT (410) 334-2835 or email: jkelley@worwic.edu
ARRANGE TO GET NOTES FROM ANOTHER STUDENT
SET UP MEETING WITH ME DURING OFFICE HOURS OR APPOINTMENT
School is just like a job. It is a commitment and absence or lateness will not be tolerated as it would not be tolerated in the workplace. If you miss or are late for classes you will miss important material and you will fall behind. If you arrive in class after attendance is taken you will be marked absent and reported as absent.

ASSIGNMENT POLICY
All Homework and Reading Assignments MUST be submitted on time. NO CREDIT FOR LATE WORK. If you do not do your homework and reading, you will not be able to keep up with the class. I will not slow down to pick up students who are not committed to making every class and doing reading and homework as assigned. I cannot check that you have done your reading but that will show in your work and ability to keep up.

QUIZZES and TESTS
All Tests will be based on the Text, Labs and Lecture Material. A final assessment will be a teacher made comprehensive final exam (summative). NO MAKEUP TESTS OR QUIZZES
The Final exam will be given at a testing center for online classes or at the scheduled day and time in the classroom and will last two hours. There will be two components to each test. The first component is a Closed Book exam, usually multiple choice questions similar to the Tutorial Quizzes. The second component is an open book exam that will test the students programming skills. This use of a computer MAY NOT be required.

ACADEMIC HONESTY POLICY
Students are expected to maintain a high level of academic performance. Cheating and plagiarism are defined in Wor-Wic’s Student Conduct Policy (appendix of College Catalog).

ELECTRONIC LAB ASSIGNMENT
This paper must be 4 pages plus a cover page and a bibliography page. Each paper will be typed, double space in a 12 point font. APA format is required. If necessary, see the rules for the APA format on the college web site.

You must include a minimum of 4 references, on a separate page, at least two of those references must be from the Internet and at least one reference must be from the electronic library in the media center. You may not include your text as a reference.
INTERNET WEB PAGE
The Syllabus, a Study Guide and other useful information is available for your use at:
http://www.worwic.edu
Your instructor will assign a username and password at orientation (online courses) or on the first
day of class to access the Blackboard Learning Management System. Here you will find course
notes, handouts and other useful information as well as part of your class will require you use this
resource for online discussions and email services. All course work will be posted on this system
and all quizzes will be taken here.
Use this web page, review it often as it will change frequently. This is a resource that has been
designed to help you be successful in this course.

INSTRUCTOR ACCESS
The instructor may be contacted at any time via email at jkelley@worwic.edu or leave a message
on voicemail at 410-334-2835. In case of emergency contact the Technology Department at 410-
334-2828 during school business hours. Use these numbers to report problems with Blackboard
access and any other course related problems.

H1N1 STATEMENT FOR SYLLABUS
In the event of a flu epidemic or other emergency that results in the suspension of classes, faculty
will be communicating with students about their courses and course requirements, such as
assignments, quiz and exam dates, and class and grading policies, via faculty websites or
Blackboard. Students will be responsible for completing all these assignments in accordance with
class policies. Information about the resumption of classes will be communicated via the College's
website and email system.

NO CELL PHONES PERMITTED IN CLASS.