CS 115 *formerly CMPSC 115   Introduction to Computer Programming*

Fall 2017 Section C: 11:30 am - 12:20 pm, Monday - Thursday & 12:30 - 1:20 pm, Tuesday & Thursday

Fall 2017 Section D: 2:50 - 5:25 pm, Tuesday & Thursday

Introduction to Computer Programming

CREDITS	PRE-REQUISITES
5	**(MATH 090 *or* MATH 097 *or* CIS 114 with a minimum grade of 2.0) *or* placement above MATH 097 *or* instructor permission.**
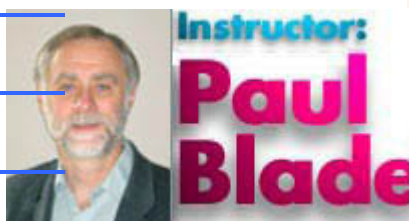
Instructor: **Paul Bladek**

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- OFFICE: **Alderwood**, Room 204A
- E-MAIL: **pbladek@edcc.edu** *preferred*
- PHONE: (425)640-1177
- FAX: (425)771-3366
- **Office Hours**

- **COURSE DESCRIPTION:** An introductory course in programming using VB.NET 2017. No previous programming experience is expected. Topics include designing, creating and debugging interactive, event-driven programs with a graphical user interface and developing problem-solving skills.

- **COURSE OBJECTIVES:**

  Upon successful completion of this course, the student should be able to:

  o Use correct syntax and structure of the Visual BASIC language.
  o Design an appropriate User Interface for a simple Visual Basic application.
  o Analyze problems typical of the business, scientific or home environment and to formulate solutions in quantitative terms capable of computer solution.
  o Design algorithms typically used in computer programming.
  o Lay out a flow chart for a typical algorithm.
  o Utilize Sequence, Selection and Iteration constructs in the design of solutions.
  o Design, code, correct, test and execute a Visual BASIC program.

  This course is part of one or more certificates or degrees. **Outcomes** for Edmonds Community College degrees and certificates can be found in the online college catalog (**http://catalog.edcc.edu**) at the bottom of each degree or certificate. To find specific outcomes, click on the Degrees and Certificates link and select a program from the list.
  Computer Science Degrees, Certificates and their Outcomes are listed at **http://cs.edcc.edu/degrees.php**

CS 115: Course Information: Fall 2017

Schedule#	Section	Time	Location
2756	**C**	11:30 a.m. - 12:20 p.m., Monday - Thursday &12:30 - 1:20 p.m., Tuesday & Thursday	**Snohomish** Room 104

- **COURSE TEXT:**
  bookstore: www.edcc.edu/bookstore
  - o **REQUIRED:**"**Starting Out with Visual Basic 2015, Student Value Edition**" **Seventh Edition** by Tony Gaddis, Kip Irvine **Pearson** ISBN-13: 9780134400327; Copyright 2017, 936 pp.
    suggested retail price: **$110.07**
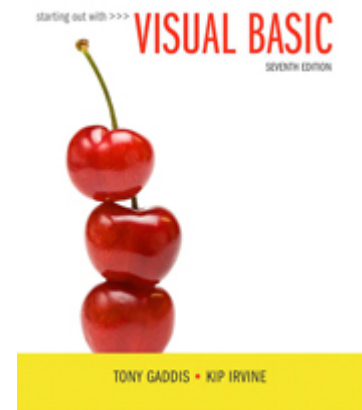
- *On the Web...*

  - **Canvas Guides**
  - **Campus Computer Resources**
  - **WiFi Connection**
  - **Learning Support**
  - **Student Services**
  - **Student Printing Guidelines**
  - **Google CS Custom Search**

  - **Visualizing a VB Program**
  - **User Interface Design**
  - **Visual Basic Explorer**
  - **Visual Basic Web Magazine**
  - **VB Tutor**
  - **VB Coding Tutorials**
  - **VB Forums**
  - *Suggested Reading:* "**Dilbert**

- **OTHER MATERIALS:**
  - o A USB memory stick or other offline storage *(optional)*
  - o a notebook *for taking notes*
  - o Access to a computer with a compiler and the Internet. There are over 400 computers on the Edmonds CC campus.
    - **ACS labs**. All ACS lab machines should have Visual Studio.Net 2017 installed.
    - **Student Technical Support:** Contact START (**http://www.edcc.edu/online/support/)** at 425.640.1101.

- **SOFTWARE USED:**
  - **Microsoft** Visual Basic.NET *2017* --available in lab
    -- also available **free** to current students through the department or
    at **VisualStudio.com** (Community version)
      -- contact Carol Tompkins (**carol.tompkins@edcc.edu**)
  - **Microsoft** Visio (available in lab)
    -- also available **free** to current students through the department
  - Successful completion of student responsibilities in this class requires access to **Canvas** via an Internet browser. Additional materials will be posted in the CS 115 area. Instructions for access to **Canvas** may be located online at the following address: **http://guides.instructure.com/**.

  - Student Technical Support: Contact START at **http://www.edcc.edu/online/support/**, 425-640-1101.

  - E-mail communications should use the student's **EdMail** account. Instructions are at: **http://www.edcc.edu/edmail**.

- **FINAL EXAM:**
  Section C: Fall 2017: Tuesday, December 5, 2017   11:30 am - 1:20 pm
  Section D: Fall 2017: Tuesday, December 5, 2017   1:30 - 3:20 pm
  *TEST **MUST** BE TAKEN AT THIS TIME!*

- **COURSE WORK:** Course work will include class discussion, programming assignments (including written documentation), written assignments, quizzes, tests, and a final comprehensive exam. *There will be no make-up exams without sufficient reason AND prior notice of the absence.* Quizzes will not necessarily be announced in advance.

- # Statement on Academic Integrity
  Edmonds CC students shall demonstrate Academic Integrity. I am expected to report all violations of Academic Integrity (academic dishonesty,

cheating, plagiarism, and unauthorized collaboration) to the College. The College's database of such incidents will be monitored by the Office of the Vice President for Student Services. Data will be maintained for three years. Evidence of repeat incidents will result in additional action by the Office of the Vice President for Student Services as governed by the Student Code of Conduct. In this class, cheating and plagiarism will result in an assignment or grade penalty ranging from redoing at 1/2 credit to a zero on the assessment. A second incident in this class will result in an assignment or grade penalty ranging from a zero on the assessment to a zero for the course.

- **LEARNING SUPPORT:** Tutoring is available in the **Learning Support Center** located in **Mukilteo Hall** #113 (425-640-1750)

- **COMMUNICATIONS PLAN INFORMATION**

  In the event of inclement weather prevents me from getting to campus (*and the college is open*), an announcement will be posted on Blackboard and/or an email message will be sent to your edmail account. at the earliest possible time. However, be sure to check the college's website to see if the college is closed and all classes are canceled.

- **COURSE TOPICS:**
  - Computer Basics
  - Programming Basics
  - Design Tools
    - Flow Charts
    - Pseudocode
  - Microsoft Visual Studio
    - Layout View
    - Code View
    - Solution Explorer
    - Toolbox
    - Properties Window
    - Debugger
  - GUI design
    - Layout
      - Group Boxes
    - Interface Control Objects
      - Labels
      - Textboxes

- o Buttons
- o Radio Buttons
- o Check Boxes
- o List Boxes
- o Combo Boxes
- o PictureBoxes
- o Data
  - primitive types
  - constants
  - strings
  - arrays
  - conversion
  - controls/Objects
- o Operators
  - Assignment
  - Arithmetic
  - Relational
  - Logical
- o Control Structures
  - sequence
  - selection
    - o If..Then..Endif
    - o If..Then..Else..Endif
    - o If..Then..ElseIf..Else..Endif
    - o Select Case
  - iteration
    - o Do While...Loop
    - o Do...Loop While
    - o Do Until...Loop
    - o Do...Loop While
    - o For...Next
    - o For Each
- o Sub Procedures
  - calling
  - parameters
    - o ByVal
    - o ByRef
- o Function Procedures
  - calling
  - Return
    - o Type

Computer Science
Edmonds Community College

*For Further information, contact **pbladek@edcc.edu***

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