



Course Syllabus

Course #: CIT1210 Course Name: Visual Programming

Division: Business Technologies

Class Days:
Class Time:
Location: Classroom:
Laboratory:
Credit Hours: 4 Contact Hours: 5 Lab Hours: 2 Lecture Hours: 3

Instructor: Smith, Lenhart, Powell Office Location: B302
Phone: Email Address:
Office Hours:
Division Office/Location: Division Fax:
Full-time Contact Person: Jon Smith Phone(s): 419-559-2315

Course Description:

This is an introductory programming course with emphasis on developing basic skills necessary to write event driven, object oriented windows applications. Topics include: handling various types of controls, their properties and events; conditional statements; looping; accessing and creating sequential files; reusable code modules; and array handling. Visual Basic.Net and the Visual Studio.Net environment are currently used in the course to enforce concepts. (Fall)

Prerequisite(s):

College level reading
Math placement into MTH1310 Intermediate Algebra or higher

Corequisite(s): None

Entry Level Skills and Knowledge:

See Prerequisite(s)

Required Texts, Supplies and Equipment:

An Introduction to Programming Using Visual Basic 2005, 6th edition by David I Schneider, Prentice Hall publisher

Portable storage device with minimum storage capacity of 20 MB (e.g. USB thumb drive)

Grading:

Table with 3 columns: Final Grades are based on, Approximate Pct of Final Grade, Grading Scale. Rows include Periodic Tests (50%, 92-100 A), Projects (40%, 84-92 B), and Instructor Evaluation (10%, 74-83 C, 65-73 D, 0-64 F).

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Learning Outcomes:

General Education

- Evaluate arguments in a logical fashion

Technical Education

- Code and develop windows based application components

Course Specific Outcomes

- Describe the process of creating programs in Visual Basic
- Identify, create and utilize various controls in Visual Basic
- Design and construct complete applications from scratch in Visual Basic
- Debug logic/syntax/runtime errors in Visual Basic
- Use fundamental features of Visual Basic to create a visual interface for simple calculation and display problems
- Create visual programs that process text files sequentially
- Create visual programs that report data in columnar fashion
- Create visual programs that utilize arrays

Assessment of Student Learning:

This course may include a project that is one of several that will be used by faculty to assess student academic performance in the program. A panel of faculty will review all (projects or whatever assessment activity you are doing), then assess and summarize the academic performance of students at this point in the program. The results of this assessment will be shared among the department faculty, used to identify needed changes or improvements, and submitted to the Student Academic Assessment Committee as part of the college's overall student academic assessment effort.

Assessment Project and Measurement in course (if any):

None

Plan of Work:

Session	Activity	Assignment
1	Introduction, Chapter 1	Read Chapter 1 and Chapter 3.1
2	Chapter 3.1	Page 57-59 Exercises 25 – 30, Read Chapter 3.2
3	Chapter 3.2	Page 72 Exercises 37 – 42, Read Chapter 3.3
4	Chapter 3.3 and Variable Scope	Page 87-88 Exercises 67 – 72, 10 Button Race
5	Lab	Read Chapter 2
6	Chapter 2 – Flowcharting	Handout – Simple Flowcharting, Read Chapter 3.4
7	Chapter 3.4	Page 104, Exercises 42 – 50 even, Read Chapter 3.5 excluding 'Reading Data from Files' pages 108-112)
8	Chapter 3.5	Pages 128 – 130 Exercises 1,2, 5
9	Lab	
10	Test	Review Chapter 2
11	Flowcharting decision structures	Handout – If Then Flowcharts, Read Chapter 5.1 – 5.2
12	Chapter 5.1 – 5.2	Handout – If Then Flowcharts, Read Chapter 5.3
13	Chapter 5.3 - Lab	Handout – If Then Flowcharts
14	Lab	
15	Test	Read Chapter 6.1
16	Flowcharting Loops, Chapter 6.1	Page 259 Exercise 34 (with modifications), Read Chapter 6.2, Chapter 3.5 Pages 108- 112 ('Reading Data From Files') , Chapter 9.1 Pages 466 -468 ('The OpenFileDialog Control')
17	Processing Files Sequentially via handout	Handout – File processing project
18	Lab	Read Chapter 6.3

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19	For Next looping via handout	Handout – Depreciation project
20	Lab	Read Chapter 4.1 – 4.2
21	Chapter 4.1 – 4.3	
22	Chapter 4.1 – 4.3, Multiple Forms	Handout – Project parameters project, Multiple Forms
23	Lab	
24	Test	Read Chapter 7.1, 7.4
25	Lecture Chapter 7.1, 7.4 – Arrays	Handout – Arrays Project
26	Lab	Read Chapter 9.1 List Boxes and Combo Boxes
27	Chapter 9.1 List and Combo Boxes	Handout – List and Combo box project, Read Chapter 9.2 Pages 472 – 475
28	Chapter 9.2 Group Box, Check box and Radio Button	Handout – Bagels Project
29	Lab	
30	Lab	
31	Final Exam	

Course Requirements:

Regular attendance is mandatory. In the case of a necessary absence, contact your instructor for missed work. All projects must be completed in a time basis in order for a student to receive credit for the course. Projects must be representative of a student’s individual abilities.

Policies

Course Withdrawing: If for any reason you need to withdraw from this course, be certain that you do so according to College procedure. It is your responsibility to know and follow this procedure. If you simply stop coming to class, without officially withdrawing from the course, your grade is an automatic “F.” Please follow official College procedure for withdrawing from this or any course.

College Academic Policies are located in the College Catalog. A copy of the current catalog may be picked up in any of the division offices or admissions. The list of college policies is also available online at <https://www.terra.edu/register/Collegecat/policies.asp>.

Support Services: The College offers a number of support services to assist in your success in this course and all courses. Among these services are the Writing & Math Center in B105, the Office of Learning Support Services, which coordinates the campus disability services and tutoring programs, the computer labs, and the computers in the atriums.

Any student who feels he/she may need an accommodation based on the documentation of a disability should contact the Office of Learning Support Services privately to discuss his/her specific issues. Please contact the OLSS at (419) 334-8400 X 208 or visit 100 Roy Klay Hall (Building A) to coordinate reasonable accommodations.

If you have a documented disability and are receiving academic accommodations through the Office of Learning Support Services, please schedule a meeting with your instructor in a timely manner so that we may discuss how these services will be arranged.

Tutoring services are available to students beginning the second week of every quarter. Students requesting tutoring services should obtain a tutor request form from the OLSS in 100 Roy Klay Hall (Building A) or online at the Terra website. Please note that instructor verification and acceptance of the Student Learner Agreement is necessary for all tutoring requests. All requests should be submitted to 100 Roy Klay Hall (Building A).