

CIS-73 VISUAL BASIC PROGRAMMING

Class Orientation

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Three Things Before We Get Started

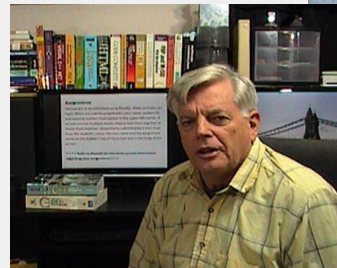
1. This class is about **Visual Basic**. You will learn how to develop programs for **Microsoft Windows**.
2. **VBA** (Visual Basic for Applications) is a **different** Microsoft product. It is used to develop macros for Microsoft Office products (Word, Excel, PowerPoint, etc.) The class does not cover VBA.
3. You need to use a computer with Microsoft Windows that is installed with **Microsoft Visual Studio – Visual Basic**. This software comes with the purchase of a new textbook, or can be downloaded for **free** from the Microsoft website. **You need a computer, not a tablet.**

List of Topics

- Introducing the Instructor, Dan McElroy and contact information
- Introducing Visual Basic
- Why Do You Want to Take a Programming Class?
- What is Expected – from me, from you
- Class Info – Enrolling – How It is Presented
Books – Software Needed – Assignments –
Using Moodle
- Submitting Your Work – Getting Feedback
- Grading

Introducing the Instructor and Contact Information

Dan McElroy
Computer Information Systems
San Jose City College



Computer Hardware Design
Computer Software Engineer
Hardware/Software Instructor

How You Contact Me:

- E-mail to Dan.McElroy@sjcc.edu
- Submit your assignments using Moodle
- Office Hours



How I Contact You:

- E-mail address you provided to A&R
- Notes on Moodle



If your e-mail address on file with the A&R registration system is not current, you may not get important messages relating to the class.

Using E-mail



All correspondence through Moodle uses the e-mail address that you have listed with the Admissions and Records office. This includes any messages that I send to the class as well as scores for each assignment. It is important that you update your e-mail address if it changes. You can update your e-mail address by clicking the "CLICK HERE" message on the purple rectangle when you go to the MyWeb page at <https://myweb.sjeccd.edu>

If you have an e-mail filter for spam, etc., it is your responsibility to make sure that you are receiving the e-mails that I send you, either from my college address Dan.McElroy@sjcc.edu, or e-mails sent through Moodle.

Sending an E-mail

The screenshot shows an email composition window with the following fields:

- To:** Dan.McElroy@sjcc.edu
- Cc:** (empty)
- Subject:** CIS-41 Program Brochure lab assignment

The email body contains the following text:

Mr. McElroy

I have attached my Program Brochure Lab assignment.

Joe Student
0123456

If you want to send an e-mail to me at my college address, it is:

Dan.McElroy@sjcc.edu

E-mail Subject

The screenshot shows an email composition window with the following fields:

- To:** Dan.McElroy@sjcc.edu
- Cc:** (empty)
- Subject:** CIS-41 Program Brochure lab assignment

The email body contains the following text:

Mr. McElroy

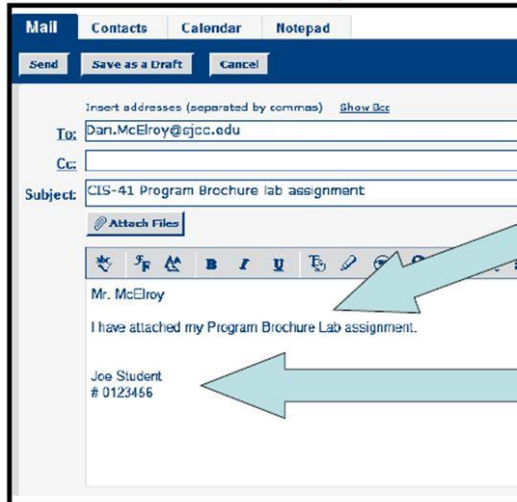
I have attached my Program Brochure Lab assignment.

Joe Student
0123456

Please put the class name and the title of the assignment in the Subject.

If you are using the e-mail to ask a question, put the word "Question" in Subject. I will try to answer questions before I finish grading lab assignments.

E-mail Body



In the body of the e-mail, identify the files that you are sending, or ask a question if you need help.

VERY IMPORTANT !!!

Put your name in your e-mail. Sometimes I have over one hundred students sending me e-mails in a week. I don't memorize which e-mail addresses belong to each student.

Have You Changed Your E-mail

Log into <https://myweb.sjcccd.edu> to notify the college if you change your e-mail address.

NOTE: Your myweb.sjcccd.edu password may be different from your moodle.sjcccd.edu password.

<https://myweb.sjcccd.edu>

Note the s in https and the e in sjcccd

Do we have your latest e-mail address?
In order for us to communicate with you more effectively, [CLICK HERE](#) to login and update your contact information.

MyWeb Technical Support Center
Tel:408-276-4411
E-mail: sjcccd@sjcccd.edu
Hours: Monday-Thursday 7:00 am - 9:00 pm
Friday 7:00 am - 6:00 pm
How to use MyWeb, in English
Cómo usar MyWeb, en Español
Cài đặt MyWeb, bằng tiếng Việt
To apply on-line, click on one of the following links: [San José](#), [Evergreen Valley College](#)

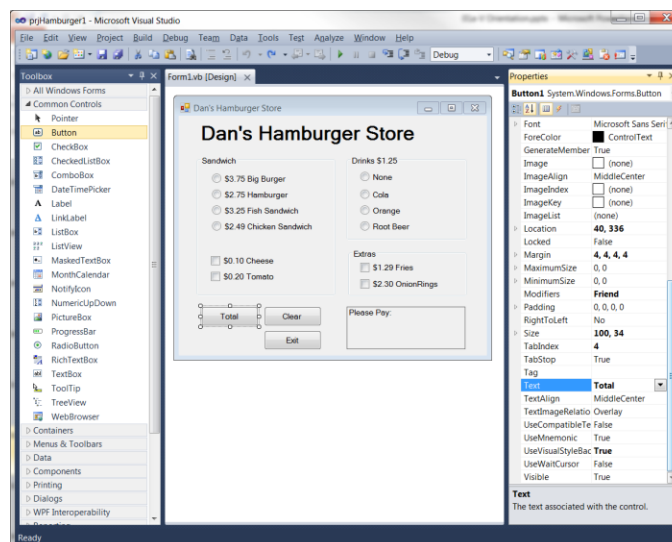
Introducing the Visual Basic

Visual Basic provides one of the easiest ways to develop programs for Microsoft Windows, and applications for the web and mobile devices.

With Visual Basic, it is easy to add labels, textboxes, buttons, images and forms when creating a program for Microsoft Windows.

Sample Project

1. Select an object from the Toolbox and drag it onto the VB form
2. Set the Properties for the object
3. Double-click the object to open the code window, enter the VB instructions that you want to be executed when the program is run



Why do you want to take a programming class?

- o Different from a lot of other classes
- o Rewarding Career
- o Frustrating – make it work, another project
- o GOAL – make programming interesting to you
- o Why do you want to take programming?
Programmer for life vs. see what it is

Why do you want to take a programming class?

- How I present the class
 - Using the IDE
 - Modify sample for new project
 - Just a Project Definition
- Dig / research to make thing work
- Reward?

Sample Programming Projects

123 - John R. Doe				Pay Period 06/02	
Earnings					
Hours	Rate	This Period	YTD	PICA - Medicare	08.08
50	9.00	450.00	970.00	WI State Income Tax	00.00
				PICA - Social Security	25.92
Gross Pay				450.00	900.00
Other Deductions					
				Health Insurance	00.00
				401k	00.00
				Parking	00.00
				NET PAY	\$418.00
				\$386.00	
Your Employer: 1234 Some Street Milwaukee, WI ZIPCODE				Check Number: XXXXX Pay Date: 06/13/06	
PAY ***Four hundred eighteen dollars and 00 cents*****\$418.00					
To the Order of: John R. Doe 545 Some Street Milwaukee, WI ZIP CODE					



Sample Programming Projects





What is Expected?

- o Are You Ready for an Online Course
- o Time Commitment Each Week
- o What You Can Expect from Me
- o What I Will Expect from You

Are You Ready for an Online Class?

There is a short self-evaluation quiz to help you determine if you are ready to take an online class. The quiz is not graded and there are no right or wrong answers to the quiz.

The quiz is designed to help you evaluate your motivation for taking an online class, your probability of succeeding and weekly time commitments.

What You Can Expect from Me

- Well Prepared Lessons and Lab Assignments
- Fair and Honest Assessment of Your Work
- Timely Responses to Your Submissions and E-mails

What I Will Expect from You

- Keep up with the assignments
- Seek help from the instructor and other students to understand programming concepts
- Do your OWN work on the assignments and submit your OWN work
- If there is some reason that you are not able to continue in the class, it is your responsibility to drop the class.

This is a Three Unit Class

One unit = three hours of work each week

Each lecture hour should be accompanied by two hours of homework

Three hours of lab is worth one unit

Three units = nine hours of work each week

Examples for a three unit class:

3 hours of lecture + 6 hours of homework

9 hours of lab + no homework

2 hours of lecture + 4 hours of homework + 3 hours of lab

2.5 hours of lecture + 5 hours of homework + 1.5 hours of lab

Are you prepared to spend nine hours each week for either an on-campus class or an online class?

If You Need to Drop the Class

Once you have shown some commitment to the class by attending, participating in quizzes, labs, or homework, I assume that you wish to be in the class. **It is your responsibility to drop the class** if you do not wish to continue. However, you **may** be dropped by the instructor if it appears that you are not participating in the class by submitting regular course work. If you do not complete the course, and do not officially drop through the Admissions office and are not dropped by the instructor, you will receive a grade based on your completed work.

In other words, if you want to stay in the class, you need to submit work on a regular basis or you may be dropped. If you want to drop the class, you should drop the class by one of the drop dates to make sure it happens for the best result on your transcript.

Prerequisites & Advisories - page 1

The class does not have a prerequisite listed, but it has several advisories that you should be aware of if you wish to take the class.

A prerequisite is a class that is **REQUIRED** before you can sign up for a class. Prerequisites are in place either for safety reasons, or to ensure that you are prepared so that you can complete the class successfully.

You can still enroll in a class if you do not meet the advisory levels, but you may have a difficult time in the class.

Prerequisites & Advisories - page 2

The class has three advisories, reading, writing and math.

ADVISORY READING LEVEL 3 – You need to be able to identify the thesis statement in college materials, make complex inferences, summarize and paraphrase information, use a college level vocabulary, etc.

This advisory is in place because the textbooks for computer programming typically are not written in Simplified English. It is important to be able to read the textbooks that present complex ideas.

Prerequisites & Advisories - page 3

ADVISORY WRITING LEVEL 3 – You need to have the ability write a well-organized five-paragraph essay.

Although most lab reports will not contain an essay requirement, you need to be able to write lab reports at a college level.

ADVISORY WRITING MATH 2 – Algebra 1 Skills

You need to be able to work with equations and variables. Some of the lab exercises may involve either complex or imaginary numbers.

Course Information

- o Computers on Campus
- o Course Syllabus
- o Books
- o Moodle

College Websites

www.sjcc.edu
Website for
San Jose City College

myweb.sjcccd.edu

- * Admissions and Records
- * Registration
- * Grades

Register
Schedules
Drop classes
Get your grades



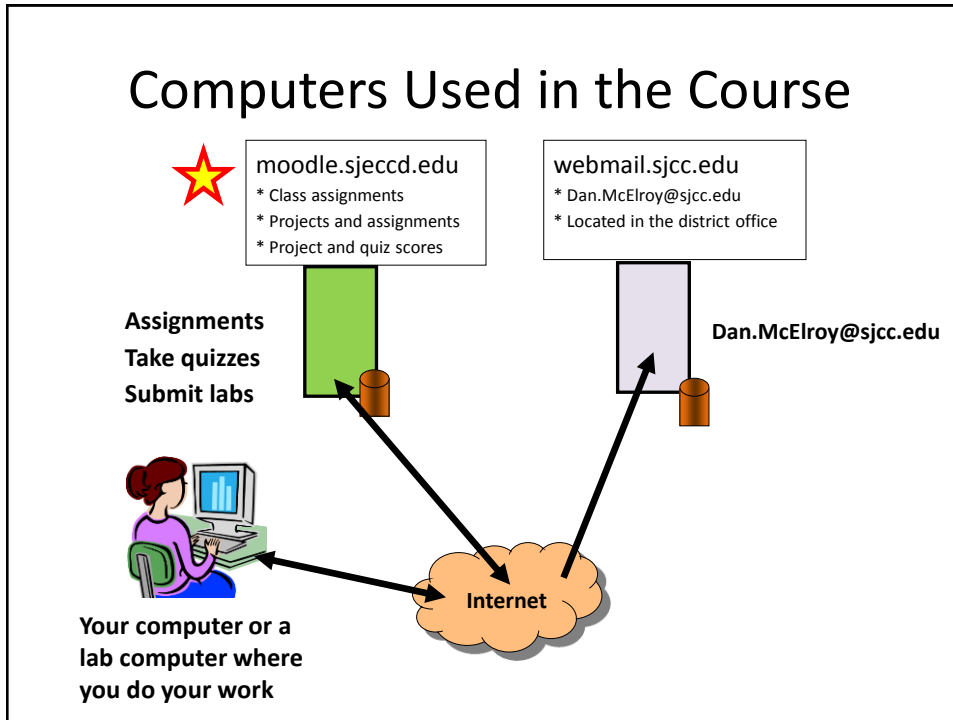
Your computer or a lab
computer where you
access the Internet

Internet

For help logging on
to either Moodle or
the A&R server

HELP DESK
helpdesk@sjcccd.edu
1-408-270-6411

Computers Used in the Course



List of Computers

1. **Your computer or a lab computer** where you login to the Internet or do your work
2. **<http://www.sjcc.edu>** – San Jose City College website
3. **<https://myweb.sjcccd.edu>** – Admissions and Records where you add and drop classes and see your final grade
4. **<http://moodle.sjcccd.edu>** – The class website. This is where the assignments are given, take the quizzes, where you submit your work and see your scores
5. **District e-mail server.** This is where your e-mails go when you send them to **Dan.McElroy@sjcc.edu**
I will get the e-mails from this server.

Each system has its own login ID and password system. Passwords are different for each system. **NOTE:** A drop on Moodle does not drop you from the course

Tech Building Open Lab

The Open Lab has all the software needed for your courses and has people who are trained to help in most of the CIS courses. It is available for students registered in courses from any of the following departments:

- Accounting
- Computer Info Systems (CIS)
- Computer Applications (CA)
- Real Estate
- Cosmetology
- Dental Assisting
- Health Education
- Health Sciences
- Marketing



The open lab may be held in room T205, room T202 or another room.

In previous Spring and Fall semesters, the times were:

Mon-Tue-Wed-Thr 10:00am – 9:00 pm

Fri 10:00am – 4:00 pm

Please check the Open Lab schedule for dates, times and locations for the lab. The schedule should be posted the first week of class.

Syllabus

VISUAL BASIC PROGRAMMING

CIS-73 Course Outline - Spring 2014

INSTRUCTOR: Dan McElroy

OFFICE: Please contact instructor by e-mail

E-MAIL: Dan.McElroy@sjcc.edu

TEXTBOOK (Required):

Starting Out With Visual Basic 2012 6th Edition, by Gaddis & Irvine - Pearson,
ISBN-13: 978-0-13-312-808-6



COURSE OVERVIEW AND OBJECTIVES:

This course covers programming using Microsoft Visual Basic. At the end of this course, the student will be able to:

1. Use Visual Basic projects and programming tools to create Windows applications
2. Select and use constants and variables and identify their lifetime and scope
3. Create programs using arithmetic, logical and string expressions
4. Select alternate courses of actions using IF and CASE statements and other VB controls
5. Reduce program complexity using subroutine procedures and user defined functions
6. Implement iterative tasks using loops
7. Create single-form and multi-form applications with menus
8. Access databases using SQL queries
9. Process lists of data using arrays
10. Create programs using object classes

Syllabus

- **Course Overview and Objectives**
- **Instructor Contact Information**
- **Submitting Your Assignments**
- **Attendance Requirements**
- **Grading**
- **Course Outline**
- **Assignment Due Dates**
- **College-wide Important Dates**





Computer Access Required

You Need:

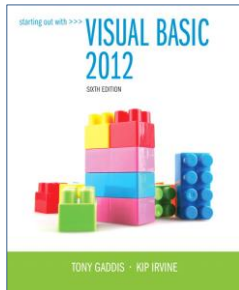
1. Access to a computer that is connected to the Internet
2. A computer to develop your Visual Basic programs. -- You can download a free copy of "Visual Basic Express Edition" from the Microsoft download site.

Additional Software Needed

You will need a word processor to type your reports. You can choose from any in the list below, or submit your reports in a PDF format.

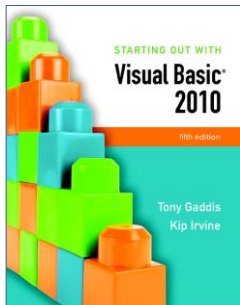
Select a Word Processing Program for Written Reports – choose one			
Microsoft Word (2003/2007/2010/365)	Pages (for Mac or iPad)	OpenOffice.org (for Mac or PC) Writer – word processor	Microsoft Works Works Word Processor
			

Textbook



“Starting Out With Visual Basic 2012” by
 Tony Gaddis and Kip Irvine
 ISBN-13: 9780133128086

I highly recommend that you get the textbook listed for the course. Although most of the information for the course will be covered in the video/PowerPoint presentations, you should have the textbook to read and as a reference as you complete the course assignments.



The 2010 edition can be used, but the page numbers for reading assignments and quizzes will be based on the 2012 edition.

Important Dates (cont'd)



Check the schedule of classes for the important dates for the semester.

Pay special attention to the date to drop a class with no 'W' mark on your transcript, and the date to drop a class and still get a 'W'.

NOTE: San Jose City College does not automatically give a refund if you drop a class at the beginning of the semester. You must apply for the refund by a certain date or you will not get your money back.

Moodle – The Class Website

Your Moodle Username should be the same as MyWeb, the first two letters of your first name, the first two letters of your last name, and the last four digits of your SJCC student ID number.

The initial password will be sent to you in an e-mail.

Moodle

"SJCC-CIS-073-101 Visual Basic Programming" You are logged in as Daniel McElroy
English (en)

My home ► My courses ► CIS-073-101

Weekly outline

Welcome to CIS073 Visual Programming

Instructor: Dan McElroy - San Jose City College E-mail: Dan.McElroy@sjcc.edu
Help Desk: (408) 270-6411

DUE DATES: Lab Assignments will be accepted up to Saturday evening at 11:55pm with no late penalty. Lab assignments will not be accepted if they over two weeks late. See the course syllabus --> The Open Lab is available for you to complete any lab work that you are not able to finish during the class lab time each Wednesday evening Visual Basic Express Edition is available for free at the Microsoft website.


[Syllabus - CIS073](#)
[Information on How to Use Moodle at San Jose City College](#)
[Verify your e-mail address](#)

Week 1

[Submit the Payroll Program](#)
[Submit the JOKE application](#)

Week 2

Lab Assignment: MilesPerGallonCalculator


 See the Payroll program on how to get the data from the Textboxes and put into Double data variables

Search forums
Advanced search

Upcoming events

Recent activity

Click these squares to expand or contract individual sections on the Moodle display

Submitting Your Work

There are three types of work that needs to be submitted:

1. Homework – submitted on Moodle as a written document
2. Quizzes – take quizzes on Moodle
3. Lab assignments – submitted on Moodle as a written document

Many of the homework assignments will be completed by taking a quiz on Moodle instead of a written assignment.

Submitting Assignments

Most lab assignments will require that you submit a report that includes a description of the assignment, the program code that was written to complete the assignment, values that were used to test the program, and a screen shot showing the execution of the program.

Do NOT send any executable files as part of your report. The security system on the servers will reject the entire submission, I won't see it, and you won't get credit for your work.

Quizzes on Moodle

The screenshot shows two quiz questions in Moodle. Question 19 is a multiple-choice question with four options, each preceded by a checkbox. A green circle highlights the text 'Select one or more:' and a green box with an arrow pointing to the checkboxes contains the text 'Check boxes accept one or more answer'. Question 20 is a single-choice question with three options, each preceded by a radio button. A green circle highlights the text 'Select one:' and a green box with an arrow pointing to the radio buttons contains the text 'Radio buttons accept only one answer'.

Question 19
Not yet answered
Marked out of 1
Flag question

What can **myweb.sjeccd.edu** be used for?

Select one or more:

- a. Adding a class
- b. Dropping a class
- c. Getting your grades after the end of the semester
- d. Updating your e-mail address

Question 20
Not yet answered
Marked out of 1
Flag question

What is the web address to login to Moodle for this class?

Select one:

- a. www.moodle.org
- b. moodle.sjeccd.edu
- c. moodle.sjcc.edu

Grading

Refer to the course syllabus for a list of the points for each assignment.

The syllabus also lists the penalties for submitting late assignments and for either submitting work created by other students, or sharing your work with other students.

I encourage you to help other students understand the course material and assignments, but each student **MUST** complete and submit their own work.

Academic Dishonesty Penalties

I encourage you to help other students, **BUT**, you are expected to **DO YOUR OWN WORK**.

I have several ways to help me determine if a student is submitting someone else's work. I may not catch every instance of plagiarized work, but I can catch many of them. The penalties for Academic Dishonesty far exceed the penalties for submitting your work late.

I strongly suggest that you do not share your work with other students, or share your disks or flash drives that contain your class work. Sometimes students have loaned their flash drive to another student and the second student accidentally submitted the wrong file. Other times the second student just copied the first student's work and changed the name.

Academic Dishonesty Penalties

Penalty	Cause
zero points on the assignment and your course grade will be lowered one grade	All or some of your work was created by another student this semester, or a previous semester.
zero points on the assignment and your course grade will be lowered again.	Second offense.
an 'F' in the class	Third offense.

If it looks like work was copied, even if accidentally, the penalties will apply. Don't take the chance on messing up your grade.

Welcome to the Class

I really enjoy programming and I really enjoy teaching. I look forward to working with you during the class. I hope that the class will be enjoyable, educational and intellectually challenging.

Dan McElroy
San José City College

e-mail: Dan.McElroy@sjcc.edu

**CIS-73 VISUAL BASIC
PROGRAMMING**

Class Orientation

The End

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ACKNOWLEDGEMENTS

IMAGES
Wikimedia Foundation® Commons
PearsonHigherEd.com

VIDEO EDITING SOFTWARE
Roxio® Creator™ NXT Pro 2