# IT 230 Coding Activity Submission Template

Submit your work on the coding activities for Modules One, Two, Three, Four, and Six in this document. In addition to this document, you should submit a ZIP file containing all your Visual Studio project files and source code that can be run in Visual Studio on a different computer.

For each coding activity, complete the following steps:

* Download and rename this document to meet the file naming conventions requested in the assignment instructions.
* Fill in the required information below by replacing the bracketed text with the relevant information.
* Submit this document and your ZIP file for grading and feedback. Your ZIP file should follow the same naming conventions.

Document your work in the coding activity by completing each of the following items:

1. Provide a screenshot of the output that resulted from running your program successfully in Visual Studio. See the coding assignment instructions for an example of what should be included in the screenshot. Your screenshot must include the following elements:
   1. Your last name as the first printed text on the screen
   2. Verification that the program is fully functioning and data results are accurate for the given problem

A screenshot of a computer

Description automatically generated

1. Copy and paste the source code text you wrote for this assignment from the \*.cs file into the space below. Only providing the \*.cs files or a screenshot does not meet the requirements for this part of the assignment. Code should be logically organized. It should also follow proper syntax and conventions noted in the Coding Activity Guidelines and Rubric.

using System;

namespace ConsoleRegisterStudent

{

class Program

{

static void Main(string[] args)

{

(new Program()).run();

}

void run()

{

int choice;

int firstChoice = 0, secondChoice = 0, thirdChoice = 0;

int totalCredit = 0;

string yesOrNo = "";

Console.WriteLine("Ryan Miller");

do

{

WritePrompt();

choice = Convert.ToInt32(Console.ReadLine());

switch (ValidateChoice(choice, firstChoice, secondChoice, thirdChoice, totalCredit))

{

case -1:

Console.WriteLine("Your entered selection {0} is not a recognized course.", choice);

break;

case -2:

Console.WriteLine("You have already registered for this {0} course.", ChoiceToCourse(choice));

break;

case -3:

Console.WriteLine("You cannot register for more than 9 credit hours.");

break;

case 0:

Console.WriteLine("Registration Confirmed for course {0}.", ChoiceToCourse(choice));

totalCredit += 3;

if (firstChoice == 0)

firstChoice = choice;

else if (secondChoice == 0)

secondChoice = choice;

else if (thirdChoice == 0)

thirdChoice = choice;

break;

}

WriteCurrentRegistration(firstChoice, secondChoice, thirdChoice);

Console.Write("\nDo you want to try again? (Y|N)? : ");

yesOrNo = Console.ReadLine().ToUpper();

} while (yesOrNo == "Y");

Console.WriteLine("Thank you for registering with us");

}

void WritePrompt()

{

Console.WriteLine("Please select a course for which you want to register by typing the number inside []");

Console.WriteLine("[1]IT 145\n[2]IT 200\n[3]IT 201\n[4]IT 270\n[5]IT 315\n[6]IT 328\n[7]IT 330");

Console.Write("Enter your choice : ");

}

int ValidateChoice(int choice, int firstChoice, int secondChoice, int thirdChoice, int totalCredit)

{

if (choice < 1 || choice > 7)

return -1;

else if (choice == firstChoice || choice == secondChoice || choice == thirdChoice)

return -2;

else if (totalCredit + 3 > 9)

return -3;

return 0;

}

void WriteCurrentRegistration(int firstChoice, int secondChoice, int thirdChoice)

{

if (firstChoice == 0)

{

Console.WriteLine("You have not registered for any courses yet.");

}

else if (secondChoice == 0)

{

Console.WriteLine("You are currently registered for {0}", ChoiceToCourse(firstChoice));

}

else if (thirdChoice == 0)

{

Console.WriteLine("You are currently registered for {0}, {1}", ChoiceToCourse(firstChoice), ChoiceToCourse(secondChoice));

}

else

{

Console.WriteLine("You are currently registered for {0}, {1}, {2}", ChoiceToCourse(firstChoice), ChoiceToCourse(secondChoice), ChoiceToCourse(thirdChoice));

}

}

string ChoiceToCourse(int choice)

{

switch (choice)

{

case 1:

return "IT 145";

case 2:

return "IT 200";

case 3:

return "IT 201";

case 4:

return "IT 270";

case 5:

return "IT 315";

case 6:

return "IT 328";

case 7:

return "IT 330";

default:

return "";

}

}

}

}

1. Show that you understand the task by explaining the design of your program in the space below. Include the process and steps you took to write your code. Explain how you arrived at the solution to the problem and completed the activity.

**In this activity, I made changes to code for a program that is used to register for classes. The program will prompt you to choose from one of the options, and once you do so, you will be asked if you want to try again. It’s a simple program that expands on what we have done previously. I made changes with the “ValidateChoice” method that will check if the choice is between the allotted numbers and to make sure that it wouldn’t exceed 9. “WriteCurrentRegistration” method will now cover the scenario in which no courses are registered yet as well. I also just corrected some spelling errors that would have been displayed to the user.**

1. Reflect on your learning experience and what you learned from completing the activity.

**I like this assignment because it’s gradually getting larger and larger with new information that we learn. This is very similar to the past registration assignments that we’ve done, but each time we’re able to provide something new to it. It makes it interesting to do even though we’ve done similar things in the past. I’ve learned the “try again” option from this assignment and think it’s very useful.**