## COUNTY COLLEGE OF MORRIS Course Information Outline

Cour	rse Title	Advanced	I C Program	ming (C#)	PREFIX & NUMBE	R CMP210
Lecti	ure Hours _	3Laborator	y Hours1	Credit Hours	3 Course Fee	\$40
Facu	ilty Course (	Coordinator	N.E.	. Binowski		
Depa	ertment Cha	irperson Appro	valBonr	nie A. Murphy /www	MARLY Approval D	ate <u>3/26/0</u> 9
Divis	ion Dean A	pprovalPatric	k J. Enright	DJ.	Approval D	ate <u>5/1</u> /09
1.	This is an a C#. Topics containers,	s covered may interfaces, over	orogramming include wind erloading, d	dow applications,	nts with at least one event handling, comp ists, inheritance, po sis.	onents and
2.	Prerequisite(s) CMP208 C Programming (C#)					
3.	<b>Co-requisit</b> None	e(s)				
4.	Textbooks TBD					
5.	Supplementary Books and/or Materials					
	Specialized equipment, supplies, facilities, for classes limited by enrollment or restricted by accreditation and/or equipment limitations. (Information will be used to determine differential funding category.)  Microsoft Visual Studio.NET and internet access.					
7.	• Wir	ntent (List of To adows-Based Ap Event-Base Handling Endemonsory Mouse Key Eventhical User Intelliper Intellip	plications d Programn vents Events ents rface (GUI)			

Components and Containers

> Form Controls

Forms: Creating and Loading

.NET Architecture and Base Class Libraries

- Enumerated Types
- String and StringBuilder Class
  - Arrays
  - Object Oriented Design
    - Objects
    - Static Class Members
    - o Class Relationships
    - o Interfaces
    - o Overloading methods and operators
- Inheritance
  - Creating Subclasses
  - > Overriding Methods
- Polymorphism
- · Algorithms: Sorting, Searching
- Recursion
- Collections
- Stacks & Queues

## 8. Statement of Course LEARNING OUTCOMES

Upon completion of this course, students will demonstrate through successful completion of assignments, projects, and examinations

- Knowledge of advanced-level programming language constructs
- Experience in solving larger and more complex problems using C#
- · Sound programming and debugging practices
- how to work collaboratively on team programming projects
- · critical thinking and decision-making skill

## 9. Statement of Relation to Curriculum(s)

Elective for all Information Technologies options.