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**Course Information**

Course Number: AWD1100

Course Name: Programming Fundamentals with C#

Semester: Fall 2022 (1st)

Class Day(s): Monday- Friday

Class Time: 8:05 AM-11:55 AM

Number of Sessions: 80

Building/Room: N/A (Online)

**Instructor Information**

Name: Jeff Scott

Office Phone: (314) 286-3675

E-mail: jpscott@ranken.edu

Office Location: Ranken Wentzville Faculty Offices (across from Room T201)

Office Hours: 6 AM – 8 AM Monday – Friday (classroom)

7 PM – 9 PM Monday – Thursday (home)

**Program Level Student Outcomes**

Graduates earning the Associates of Technology or Associates of Applied Science in Information Technology Application & Web Development will be able to:

* Develop and design websites that use the latest versions of HTML, CSS, JavaScript, and modern JavaScript libraries
* Develop, troubleshoot, and implement applications using object-oriented programming principles and fundamentals
* Create data-driven Web-based applications that utilize SQL, stored procedures, LINQ, and .NET data access techniques
* Utilize a version control system to manage code

**Course Materials and Texts**

**COURSE TEXT  
Book: Murach’s C# 7th Edition by Anne Boehm and Joel Murach**

[**https://www.murach.com/shop/murach-s-c-7th-edition-detail**](https://www.murach.com/shop/murach-s-c-7th-edition-detail)

**Course Description**

This course offers an introduction to writing programs that demonstrate the C# programming language and object-oriented programming (OOP). Students develop key programming concepts and logic focused on problem-solving skills that will translate to real-world applications. This course will also help students begin to understand and demonstrate code debugging skills that will be pivotal in the development field. Hands-on applications of coding utilizing modern developer tools will allow students to get the foundation needed for application development. Fourteen credit hours.

**Course Level Student Outcomes**

Students successfully completing the AWD1100 – Programming Fundamentals with C# course will be able to:

• Develop C# console applications in Visual Studio

• Develop C# GUI applications that respond to events in Visual Studio.

• Solve problems using fundamental programming concepts including variables, branching and loops.

• Use arrays and collections to store and manipulate data.

• Demonstrate exception handling and data validation.

• Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, & abstraction.

**Policies**

See the [Ranken Technical College Student Handbook](http://ranken.edu/student-life/student-handbook/).

**Attendance \*\***

Students are expected to attend all scheduled course sessions. Students are responsible for monitoring their attendance record on InsideRanken.

**\*\*NOTE: This is an online class: All lectures will be taped and made available on Microsoft Teams and/or** [**my YouTube channel**](https://www.youtube.com/channel/UC98Q7XElpqpCZ78R2sdm-Ww)**. Students are expected to either watch the videos live or on tape. Homework, Labs, and/or Tests will be given weekly. If work is turned in by the due dates provided, the student will be marked present. If not, they will be marked absent. With online classes, you get a maximum of 2 absences before the instructor is required to drop you from the class. You can appeal this as you deem necessary. Feel free to ask if you have any questions.**

**Seated/Face to Face Courses**

Not Applicable

**Excused Absences**

None.

**Academic Honesty**

Academic honesty is essential to the education process at Ranken Technical College. Thus, academic dishonesty is a basis for disciplinary action or dismissal. Such acts include:

- Cheating on any type of exam

- Cheating on homework assignments

- Helping another student to cheat on any type of exam

- Helping another student to cheat on homework assignments

- Illegal or unauthorized possession of exams or restricted material

- Illegal or unauthorized changes to a graded assignment or exam

- Plagiarism (including in your work, another’s work that is not properly cited)

**Grading**

**A 92.5-100% Excellent**

**B+ 89.5-92.49% Very Good**

**B 83.5-89.49% Good**

**C+ 80.5-83.49% Above Average**

**C 74.5-80.49% Average**

**D 69.5-74.49% Does not satisfy course requirement**

**F 0-69.49 Failing**

**Workload Table**

**(Categories, assignments, and hours will vary)**

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**Grading Weight**

**Course Grading - (% breakdown of tests, homework, etc.)**

**10% Written Tests**

**30% Homework and Lab Programs**

**50% Hands-On Tests & Final Project**

**10% Electronic Portfolio (updated to include C# samples)**

**General College Information**

**Tutorial Assistance**

Students experiencing academic difficulties are encouraged to use the tutorial services offered by the Student Success Center (SSC) located on the top floor on the Finney Building and through the Gray Bridge. You can contact the SSC at (314) 286-4891. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken-specific information. More in class.

**Students with Disabilities**

Ranken Technical College makes every effort to accommodate individuals with disabilities. To obtain accommodations, students must identify themselves to the Student Success Center (SSC) and provide written documentation of their disabilities from qualified professionals or agencies. You can contact the SSC at (314) 286-4891. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken-specific information.

**Career Services**

The Career Services department is available to help students with resume writing and job placement. You can contact Career Services at (314) 286-3665. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken-specific information.

**Snow Days and Campus Emergencies**

If classes are canceled due to an emergency, students will be notified via the notification system which will generate a text message to the assigned cell phone and/or email address. Notifications are also posted on the College website and Inside Ranken web portal.

**Notifications are active for the time-period you specify during the** sign-up process. It is recommended that you sign up for a one-year period. If you

**NOTE: AS THIS IS AN ONLINE CLASS, ASSUME THAT CLASSES WILL ALWAYS BE HELD.**

**See the Ranken Technical College IT Division Handbook for IT division rules and policies. For all others, see the Ranken Technical College Student Handbook at** [**https://ranken.edu/current-students/student-handbook/**](https://ranken.edu/current-students/student-handbook/)

**The AWD1100 Programming Fundamentals with C# fall 2022 syllabus/schedule is listed on the following pages. This schedule may change during the semester as necessary.**

**Course Schedule**

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| **Day 1**  **08/22/2022** | **Course Introduction**   * **Class Introduction** * **Student Handbook Review** * **Department Handbook Review** * **Work Ethic Grade Sheet** * **Internet Usage Sheet** * **GitHub intro/”re-intro”**   **Lecture Ch. 1 How to Get started with Visual Studio**  **Objective:**   * **Getting started with Visual Studio**   **Specific Objectives:**   * **Complete Chapter 1 of text**   **Course Outcome Alignment:**   * **Develop console applications in Visual Studio** * **Develop GUI applications that respond to events in Visual Studio** | **FYI, at the end of the semester, your lowest grade (overall) will automatically be dropped.**  **Assignment: Ch. 1**  **Written Test and Homework/Labs. Due by midnight Sunday 09/04/22.** |
| **Day 2**  **08/23/2022** | **Lecture Ch. 2 How to Design a Windows Forms Application and Lecture Ch. 3 How to Code & test a Windows Forms Application**  **Objectives:**  **Specific Objectives:**   * **Complete Chapter 2 of text** * **Complete Chapter 3 of text**   **Course Outcome Alignment:**   * **Develop console applications in Visual Studio** * **Develop GUI applications that respond to events in Visual Studio** | **Assignment: Ch. 1-3 Written Tests and Homework/Labs. Due by midnight Sunday 09/04/22.** |
| **Day 3**  **08/24/2022** | **Chapters 1 – 3 Pretest**  **Objectives:**  **Specific Objectives:**   * **Complete Chapters 1-3 of text**   **Course Outcome Alignment:**   * **Develop console applications in Visual Studio** * **Develop GUI applications that respond to events in Visual Studio** | **Assignment: Ch. 1-3 Written Test and Homework/Labs. Due by midnight Sunday 09/04/22.** |
| **Day 4**  **08/25/2022** | **Chapters 1 – 3 Hands-On Test**  **Specific Objective:**   * **Complete Chapters 1-3 of text**   **Course Outcome Alignment:**   * **Develop console applications in Visual Studio**   **Develop GUI applications that respond to events in Visual Studio** | **Assignment: Ch. 1-3 Written Tests and Homework/Labs. Due by midnight Sunday 09/04/22.** |
| **Day 5**  **08/26/2022** | * **Lab All Period** | **Assignment: Ch. 1-3 Written Test and Homework/Labs. Due by midnight Sunday 09/04/22.** |
| **Day 6**  **08/29/2022** | **Lecture Ch. 4 How to Work with Numeric & String Data**  **Specific Objectives:**   * **Complete Chapter 4 of text**   **Course Outcome Alignment:**   * **Develop console and GUI applications that respond to events in Visual Studio** * **Solve problems using fundamental programming concepts including variables, branching and loops** | **Assignment: Ch. 1-3 Written Tests and Homework/Labs. Due by midnight Sunday 09/04/22.**  **Assignment: Ch. 4 Written Test and Homework/Labs. Due by midnight Sunday 09/11/22.** |
| **Day 7**  **08/30/2022** | **Lecture Ch. 4 How to Work with Numeric & String Data / Ch. 5 How to Code Control Structures**  **Specific Objectives:**   * **Complete Chapter 4 of text**   **Course Outcome Alignment:**   * **Develop console and GUI applications that respond to events in Visual Studio** * **Solve problems using fundamental programming concepts including variables, branching and loops** | **Assignment: Ch. 1-3 Written Tests and Homework/Labs. Due by midnight Sunday 09/04/22.**  **Assignment: Ch. 4 Written Test and Homework/Labs. Due by midnight Sunday 09/11/22.** |
| **Day 8**  **08/31/2022** | **Ch. 5 How to Code Control Structures**  **Specific Objectives:**   * **Complete Chapter 5 of text**   **Course Outcome Alignment:**   * **Develop console and GUI applications that respond to events in Visual Studio** * **Solve problems using fundamental programming concepts including variables, branching and loops** | **Assignment: Ch. 1-3 Written Tests and Homework/Labs. Due by midnight Sunday 09/04/22.**  **Assignment: Chapters**  **4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.** |
| **Day 9**  **09/01/2022** | **Chapters 4 – 5 Pretest**  **Specific Objectives:**   * **Complete Chapter 5 of text**   **Course Outcome Alignment:**   * **Develop console and GUI applications that respond to events in VS** * **Solve problems using fundamental programming concepts including variables, branching and loops** | **Assignment: Ch. 4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.** |
| **Day 10**  **09/02/2022** | * **Lab All Period**   **LABOR DAY MONDAY 09/05/2022 – NO CLASSES** | **Assignment: Ch. 4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.** |
| **Day 11**  **09/06/2022** | **Chapters 4 – 5 Hands-On Test**   * **Complete Chapters 4-5 of text**   **Course Outcome Alignment:**   * **Develop console applications in Visual Studio** * **Develop GUI applications that respond to events in Visual Studio** * **Solve problems using fundamental programming concepts including variables, branching and loops** | **Assignment: Ch. 4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.** |
| **Day 12**  **09/07/2022** | **Lecture Ch. 6 How to Code Methods and Event Handlers**  **Specific Objectives:**  **Complete Chapter 6 of text**  **Course Outcome Alignment:**   * **Develop GUI applications that respond to events in Visual Studio** * **Solve problems using fundamental programming concepts i.e., variables, branching and loops** | **Assignment: Ch. 4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.**  **Assignment: Chapter**  **6 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.** |
| **Day 13**  **09/08/2022** | **Ch. 7 Exceptions and Data Validation**  **Specific Objectives:**  **Complete Chapter 7 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** | **Assignment: Ch. 4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.**  **Assignment: Ch. 6 – 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.** |
| **Day 14**  **09//09/2022** | * **Lab All Period** | **Assignment: Ch. 4-5 Written Tests and Homework/Labs. Due by midnight Sunday 09/11/22.**  **Assignment: Ch. 6 - 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.** |
| **Day 15**  **09/12/2022** | **Ch. 7 Exceptions and Data Validation**  **Specific Objectives:**  **Complete Chapter 7 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** | **Assignment: Ch. 6 - 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.** |
| **Day 16**  **09/13/2022** | **Chapters 6 – 7 Pretest**  **Specific Objective:**   * **Complete Chapters 6-7 of text**   **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts, e.g., variables, branching and loops** * **Demo exception handling/data validation** | **Assignment: Ch. 6 - 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.**  **.** |
| **Day 17**  **09/14/2022** | **Chapters 6 – 7 Hands-On Test**  **Specific Objective:**   * **Complete Chapters 6-7 of text**   **Course Outcome Alignment:**   * **Develop console apps in Visual Studio** * **Develop GUI applications that respond to events in Visual Studio** * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** | **Assignment: Ch. 6 - 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.** |
| **Day 18**  **09/15/2022** | **Lecture Ch. 8 Arrays and Collections**  **Specific Objectives:**  **Complete Chapter 8 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demo exception handling/data validate** * **Use arrays and collections to store and manipulate data** | **Assignment: Ch. 6 - 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.**  **Assignment: Ch.8 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.** |
| **Day 19**  **09/16/2022** | * **Lab All Period** | **Assignment: Ch. 6 - 7 Written Test and Homework/Labs. Due by midnight Sunday 09/18/22.**  **Assignment: Ch.8 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.** |
| **Day 20**  **09/19/2022** | **Lecture Ch. 8 Arrays and Collections**  **Specific Objectives:**  **Complete Chapter 8 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** | **Assignment: Ch.8 - 9 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.** |
| **Day 21**  **09/20/2022** | **Lecture Ch. 9 How to work w/ Dates & Strings**  **Specific Objectives:**  **Complete Chapter 9 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** | **Assignment: Ch.8 - 9 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.** |
| **Day 22**  **09/21/2022** | **Chapters 8 – 9 Pretest**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** | **Assignment: Ch.8 - 9 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.** |
| **Day 23**  **0922/2022** | **Chapters 8 – 9 Hands-On Test**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** | **Assignment: Ch.8 - 9 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.** |
| **Day 24**  **09/23/2022** | * **Lab All Period** | **Assignment: Ch.8 - 9 Written Test and Homework/Labs. Due by midnight Sunday 09/25/22.**  **Assignment: Ch. 10 Written Test and Homework/Labs. Due by midnight Sunday 10/02/22.** |
| **Day 25**  **09/26/2022** | **Lecture Ch. 10 Work w/ Windows Forms/Controls**  **Specific Objectives:**  **Complete Chapter 10 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** | **Assignment: Ch. 10 Written Test and Homework/Labs. Due by midnight Sunday 10/02/22.** |
| **Day 26**  **09/27/2022** | **Lecture Ch. 11 Application Debugging**  **Specific Objectives:**  **Complete Chapter 11 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** | **Assignment: Ch. 10 - 11 Written Test and Homework/Labs. Due by midnight Sunday 10/02/22.** |
| **Day 27**  **09/28/2022** | **Chapters 10 – 11 Pretest**  **General Objective:**   * **Get started with Visual Studio**   **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** | **Assignment: Ch. 10 - 11 Written Test and Homework/Labs. Due by midnight Sunday 10/02/22.** |
| **Day 28**  **09/29/2022** | **Chapters 10 – 11 Hands-On Test**  **General Objective:**   * **Get started with Visual Studio**   **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data**   **Debug C# applications** | **Assignment: Ch. 10 - 11 Written Test and Homework/Labs. Due by midnight Sunday 10/02/22.** |
| **Day 29**  **09/30/2022** | * **Lab All Period** | **Assignment: Ch. 10 - 11 Written Test and Homework/Labs. Due by midnight Sunday 10/02/22.** |
| **Day 30**  **10/03/2022** | **Ch. 12 & 13 Create and Use Classes**  **Specific Objectives:**  **Complete Chapters 12-13 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.** |
| **Day 31**  **10/04/2022** | **Ch. 12 & 13 Create and Use Classes**  **Specific Objectives:**  **Complete Chapters 12-13 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.** |
| **Day 32**  **10/05/2022** | **Ch. 12 & 13 Create and Use Classes**  **Specific Objectives:**  **Complete Chapters 12-13 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.** |
| **Day 33**  **10/06/2022** | **Chapters 12 – 13 Pretest**  **Specific Objectives:**  **Complete Chapters 12-13 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts.** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.** |
| **Day 34**  **10/07/2022** | * **Lab All Period** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.** |
| **Day 35**  **10/10/2022** | **Chapters 12 – 13 Hands-On Test**  **Specific Objectives:**  **Complete Chapters 12-13 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.**  **Assignment: Chapter**  **14 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.** |
| **Day 36**  **10/11/2022** | **Lecture Ch. 14 Inheritance**  **Specific Objectives:**  **Complete Chapter 14 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write apps using fundamental OOP concepts: classes, objects, encapsula-tion, inheritance, abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.**  **Assignment: Chapter**  **14 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.** |
| **Day 37**  **10/12/2022** | **Lecture Ch. 15 Interfaces and Generics / Lecture Ch. 16 Organizing/Documenting Classes**  **Specific Objectives:**  **Complete Chapter 15 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.**  **Assignment: Ch. 14 – 15 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.** |
| **Day 38**  **10/13/2022** | **Chapters 14 - 16 Pretest**  **Specific Objectives:**  **Complete Chapters 14-16 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.**  **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.** |
| **Day 39**  **10/14/2022** | * **Lab All Period** | **Assignment: Ch. 12-13 Written Tests and Homework/Labs. Due by midnight Sunday 10/16/22.**  **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.** |
| **Day 40**  **10/17/2022** | **Chapters 14 – 16 Hands-On Test**  **Specific Objectives:**  **Complete Chapters 14-16 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.** |
| **Day 41**  **10/18/2021** | **Lecture Ch. 17 How to Work with File I/O**  **Specific Objectives:**  **Complete Chapter 17 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.**  **Assignment: Ch. 17 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Begin work on final project.** |
| **Day 42**  **10/19/2022** | **Lecture Ch. 17 How to Work with File I/O**  **Specific Objectives:**  **Complete Chapter 17 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.**  **Assignment: Ch. 17 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Begin work on final**  **project.** |
| **Day 43**  **10/20/2022** | **Lecture Ch. 18 How to Use LINQ**  **Specific Objectives:**  **Complete Chapter 18 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.**  **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Begin work on final project.** |
| **Day 44**  **10/21/2022** | * **Lab All Period** | **Assignment: Ch. 14 - 16 Written Test and Homework/Labs. Due by midnight Sunday 10/23/22.**  **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Begin work on final project.** |
| **Day 45**  **10/24/2022** | **Lecture Ch. 18 How to Use LINQ**  **Specific Objectives:**  **Complete Chapter 18 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Continue work on final project.** |
| **Day 46**  **10/252022** | **Chapters 17 – 18 Pretest**  **Specific Objectives:**  **Complete Chapters 17-18 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Continue work on final project.** |
| **Day 47**  **10/26/2022** | **Chapters 17 – 18 Hands-On Test**  **Specific Objectives:**  **Complete Chapters 17-18 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Continue work on final project.** |
| **Day 48**  **10/27/2022** | **Lecture Ch.19 Intro to database programming**  **Specific Objectives:**  **Complete Chapter 19 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Assignment: Chapter**  **19 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 49**  **10/28/2022** | * **Lab All Period** | **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Assignment: Chapter**  **19 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 50**  **10/31/2022** | **Lecture Ch.19 Intro to database programming**  **Specific Objectives:**  **Complete Chapter 19 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 17 – 18 Written Test and Homework/Labs. Due by midnight Sunday 10/30/22.**  **Assignment: Ch. 19 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 51**  **11/01/2022** | **Lecture Ch.20 How to Use Entity Framework Core**  **Specific Objectives:**  **Complete Chapter 20 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 19 - 20 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 52**  **11/02/2022** | **Lecture Ch.20 How to Use Entity Framework Core**  **Specific Objectives:**  **Complete Chapter 20 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 19 - 20 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 53**  **11/03/2022** | **Lecture Ch.20 How to Use Entity Frame Core**  **Specific Objectives:**  **Complete Chapter 20 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 19 - 20 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 54**  **11/04/2022** | * **Lab All Period** | **Assignment: Ch. 19 - 20 Written Test and Homework/Labs. Due by midnight Sunday 11/06/22.**  **Continue work on final project.** |
| **Day 55**  **11/07/2022** | **Chapters 19 – 20 Pretest**  **Specific Objectives:**  **Complete Chapters 19-20 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 56**  **11/08/2022** | **Chapters 19 – 20 Hands-On Test**  **Specific Objectives:**  **Complete Chapters 19-20 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 57**  **11/09/2022** | **Lecture Ch.21 How to Use ADO.NET**  **Specific Objectives:**  **Complete Chapter 21 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 58**  **11/10/2022** | **Lecture Ch.21 How to Use ADO.NET**  **Specific Objectives:**  **Complete Chapter 21 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming**   **11/11/2022 No Class Veteran’s Day** | **Assignment: Ch. 21 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 59**  **11/11/2022** | * **Lab All Period** | **Assignment: Ch. 21 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 60**  **11/14/2022** | **Lecture Ch.21 How to Use ADO.NET**  **Specific Objectives:**  **Complete Chapter 21 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demo ex. handling/data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts.** * **Database programming** | **Assignment: Ch. 21 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 61**  **11/15/2022** | **Lecture Ch.22 How to Use DataGridView Control**  **Specific Objectives:**  **Complete Chapter 22 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project.** |
| **Day 62**  **11/16/2022** | **Lecture Ch.22 How to Use DataGridView Control**  **Specific Objectives:**  **Complete Chapter 22 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project** |
| **Day 63**  **11/17/2022** | **Lecture Ch.22 How to Use DataGridView Control**  **Specific Objectives:**  **Complete Chapter 22 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project** |
| **Day 64**  **11/18/2022** | * **Lab All Period** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project** |
| **Day 65**  **11/21/2022** | **Chapters 21 – 22 Pretest**  **Specific Objectives:**  **Complete Chapters 21-22 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project** |
| **Day 66**  **11/22/2022** | **Chapters 21 – 22 Hands-On Test**  **Specific Objectives:**  **Complete Chapters 21-22 of text**  **Course Outcome Alignment:**   * **Solve problems using fundamental programming concepts including variables, branching and loops** * **Demonstrate exception handling and data validation** * **Use arrays and collections to store and manipulate data** * **Debug C# applications** * **Write applications utilizing fundamental OOP concepts such as classes, objects, encapsulation, inheritance, and abstraction** * **Database programming** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project** |
| **Day 67**  **11/23/2022** | * **Work On Remaining Homework/Final Project** * **Begin Work on E-Portfolio Update**   **NO CLASSES 11/24 – 11/25 Thanksgiving** | **Assignment: Ch. 21 - 22 Written Test and Homework/Labs. Due by midnight Sunday 11/27/22.**  **Continue work on final project** |
| **Day 68**  **11/28/2022** | * **Work On Remaining Homework/Final Project** * **Begin Work on E-Portfolio Update** | **Continue work on final project, due 12/14/2022.** |
| **Day 69**  **11/29/2022** | * **Work On Remaining Homework/Final Project** * **Begin Work on E-Portfolio Update** | **Continue work on final project, due 12/14/2022.** |
| **Day 70**  **11/30/2022** | * **Work On Remaining Homework/Final Project** * **Begin Work on E-Portfolio Update** | **Continue work on final project, due 12/14/2022.** |
| **Day 71**  **12/01/2022** | * **Work On Remaining Homework/Final Project** * **Begin Work on E-Portfolio Update** | **Continue work on final project, due 12/14/2022.** |
| **Day 72**  **12/02/2022** | * **Lab All Period** | **Continue work on final project, due 12/14/2022.** |
| **Day 73**  **12/05/2022** | * **Work On Final Project** * **Begin Work on E-Portfolio Update** | **Work on final project**  **and E-Portfolio update** |
| **Day 74**  **12/06/2022** | * **Work On Final Project** * **Begin Work on E-Portfolio Update** | **Work on final project**  **and E-Portfolio update** |
| **Day 75**  **12/07/2022** | * **Work On Final Project** * **Begin Work on E-Portfolio Update** | **Work on final project**  **and E-Portfolio update** |
| **Day 76**  **12/08/2022** | * **Work On Final Project** * **Begin Work on E-Portfolio Update** | **Work on final project**  **and E-Portfolio update** |
| **Day 77**  **12/09/2022** | * **Lab All Period** | **Work on final project**  **and E-Portfolio update** |
| **Day 78**  **12/12/2022** | * **Work On Final Project** * **Begin Work on E-Portfolio Update** | **Work on final project**  **and E-Portfolio update** |
| **Day 79**  **12/13/2022** | * **ANY/ALL WORK DUE TODAY!!!** | **Work on final project**  **and E-Portfolio update** |
| **Day 80**  **12/14/2022** | * **Class Ends** | **Complete work on/turn in final project/portfolio** |

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