Des Moines Area Community College (DMACC): Life's Calling[http://www.dmacc.edu](http://www.dmacc.edu/)

# COURSE SYLLABUS

**Campus Name:** Online/Urban

**Course Title:** Advanced C# Programming

**Course Number:** CIS 174

**Section Number & CRN:** WH1 & 31107

## Instructor Information

**Name:** Evan Hennis

**Email Address:** [emhennis@dmacc.edu](mailto:emhennis@dmacc.edu)

**Phone Number:** 515-981-6875

**Office Location:** Online

**Office Hours/Appointments:** Office hours & appointments arranged by email

**Instructor Introduction:** I earned my bachelor’s degree in Computer Science from Iowa State University in 2004. I have been coding in C# ever since graduation. In 2016, I went back to graduate school at Georgia Tech and earned a master’s degree in Computer Science with a Machine Learning specialization. I went on to be awarded the Google Developer Expert in Machine Learning and used that to speak to groups all across the world.

I started out working at a small software shop that eventually was bought by Xerox. I then started consulting work with QCI which led me to Wells Fargo. After Wells Fargo, I went back to QCI and am currently doing contract work for Corteva.

Outside of work I spend time with my wife and 2 daughters.

**Blackboard:** [https://dmacc.blackboard.com/](https://dmacc.blackboard.com/webapps/portal/execute/tabs/tabAction?tab_tab_group_id=_1_1)

## Course Information

**Pandemic Special Information:** DMACC has implemented safety efforts to keep students safe; however, due to the extreme contagious nature of the COVID-19 virus, it should NOT be assumed that all risk will be eliminated. DMACC recommends that you continue to follow DMACC and state/local health recommendations around COVID-19. For more information visit: [https://tinyurl.com/DMACCStudentPlaybook](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Ftinyurl.com%2FDMACCStudentPlaybook&data=02%7C01%7Cjamccarville1%40dmacc.edu%7Cb9d51f2c9eb44d51901a08d8281271f4%7Ce91e8e9401b54e3699301436f67ce779%7C0%7C0%7C637303406965676933&sdata=9itypiNQdXeF1f3k7dyj0Ym%2BGLxbrRh6fvleek5xNHk%3D&reserved=0)

**Semester/Year:** Summer 2022

**Date Syllabus Created and/or Revised:** 2022-04-13

**Days & Time & Location:** Blackboard

**Course Description & Credits:** <https://www.dmacc.edu/Schedule/Pages/coursedescriptions.aspx>   
Students learn ASP.NET development with C# and relational database management systems. Build dynamic websites, web applications and REST web APIs. The course includes advanced topics such as state preservation techniques and object-oriented programming. After completing the course, students will be able to use C# and ASP.NET to build professional-quality database-driven websites.

**Prerequisites:** CIS 169

**Course Competencies:** [https://www.dmacc.edu/competencies](https://www.dmacc.edu/curriculum/competencies)   
https://catalog.dmacc.edu/preview\_course\_nopop.php?catoid=12&coid=12062

**Course Overview:** We will explore the basic concepts of web application development and RESTful web api development. We will learn how to create and deploy a database and web application to a server. We will move on to more advanced topics in C# and learn .net core. We will also learn how to debug our web applications and use automated testing to build robust applications. You will put all these concepts together for a final project to present at the end of the course.

**DMACC College Wide Outcomes:** <https://www.dmacc.edu/oie/Documents/DMACC%20Collegewide%20Outcomes.pdf>

**Study Expectations/Tips:** To do well in this class you should go through the readings and any other content before class so that you are prepared for the in-class activities. Take and review your notes from class. If you miss a class session, make sure to review all the other content and reading and get the missed notes from a classmate. Feel free to ask questions of myself or your classmates. This is a fast paced, hands-on course. It is realistic to expect to spend at least 10 hours per week doing course work for this course. If you miss any class session it is your responsibility to obtain any notes from a classmate as soon as possible. The content of the course builds on itself throughout the semester. Consequently, it is important that students master early concepts, as they will become building blocks for concepts introduced later in the course. Students should seek extra help by utilizing tutoring, arranging time before or after class with myself, or studying with classmates. You should do so as soon as possible if you feel that you are getting behind on the course material.

### Textbooks & Materials

**Required Textbooks & ISBN:** Murach’s ASP.NET Core MVC, ISBN 978-1-943872-49-7

**Technology Needs:** Computer for class and homework

**Software Applications:** Visual Studio 2019 Any Version; SQL Server Management Studio, SQL Server 2019 Express; Git (SourceTree or other Git tools), latest version of Microsoft Word, Excel, and PowerPoint; Firefox is best for blackboard;   
Software notice: “All the software used in this class is copyrighted; therefore, it is not for distribution, copying, or personal use. This software is the property of Des Moines Area Community College.”

### Course Policies

**Attendance/Participation:**

* We will have class for 120 minutes once a week.
* All the content is delivered via Blackboard.
* Log into our course minimally three times per week in Blackboard.
* Be active and present by participating in discussions and projects on Blackboard.
* Dedicate enough time outside of class in order to be prepared for class, through readings, exercises and other learning experiences approximately 10 hours a week.
* Check your DMACC email at least three times per week.
* Ask questions of material that you don’t understand and answer questions for material that you do understand.
* Participate in discussion boards, blogs and/or journals before the due date.
* Submit assignments and complete exams/tests before they are due in order to give yourself adequate time should a problem arise.
* Have access to a dependable computer and Internet connection.
* Have an available computer with an IDE and other required software installed and ready for use outside of the classroom
* Have a back-up plan in case the computer or connection fails.
* Communicate with me regarding any issues with course materials, grades, or technical issues.
* Use your DMACC email address to communicate with me, do not use Blackboard messages.
* Call or email the DMACC Helpdesk with any technical issues (post this number/email address on your computer & program it into your phone).
* Put forth your best effort and accept responsibility for your learning.
* You should complete all the content on blackboard prior to the following class session.

**Grading Criteria:** Based on percentage of points possible accumulated throughout the course. Points will be awarded for exams, quizzes, assignments, projects and participation.

A = 93-100%   
A- = 90-92%  
B+ = 87-89%  
B = 83-86%  
B- = 80-82%  
C+ = 77-79%  
C = 73- 76%  
C- = 70-72%  
D+ = 67-69%  
D = 63-66%  
D- = 60-62%  
F = 0-59%

You will be assessed as a percentage of the total points:

* Weekly assignments
* Standups and retros
* Quizzes
* Midterm
* Final project

Providing you with feedback in my top priority. You can expect the following turn-around time:

* Assignments, blogs, journals, wikis & discussion boards grades and feedback – within 1 week of the due date
* Tests & Quizzes – within 1 week of the due date
* Presentations – within 1 week of the due date
* Final project – within 1 week of the due date
* Late work – within 2 weeks from when you submitted the work to me

I will use the announcement section in Blackboard to communicate changes in the schedule or when grades for a unit/assignment are posted. Please note that the final grades in My Grades will not be 100% official until I post an announcement indicating they are official. If you have questions or see a discrepancy throughout the term, please email me ASAP so I can investigate it.

**Classroom Conduct:** <https://www.dmacc.edu/handbook>   
Even though we do not have a typical classroom time I expect all students to abide by the conduct policies in the handbook during online interactions

**Missed Exams:** No makeup exams, quizzes or projects will be given, except in cases of extreme circumstances to be determined by the instructor and must be arranged prior to the start of the exam or quiz. In the rare case that someone is making up an exam it will delay the posting of exam results until all students have completed it. A zero score will be given for missed exams, quizzes or projects. If an exam or quiz has a time limit, the exam will end and be submitted at the given time limit and any unanswered questions will be counted incorrect.

**Late Assignments:** Assignments that are turned in late will have a maximum score of 70% in order to respect and reward the students that did their work on time. No late assignments will be accepted after April 19th @ 11:59 PM. Late assignments must be submitted via the appropriate location in Blackboard. If the assignment is not available, late work is no longer being accepted for it. It is the responsibility of the student to retrieve assignments from Blackboard before the weekly due date and to submit assignments using the correct links. Projects, presentations, and exams cannot be made up.

**Extra Credit:** No extra credit for late assignments

**Class Cancellation Procedure: (**It is the responsibility of each faculty member to notify their students (in addition to their dean or provost) through some predetermined means if they must postpone or cancel a specific class.) If class is to be canceled, I will notify all the students through a blackboard announcement and an e-mail sent from the blackboard emailing too to the DMACC email.

**Academic Misconduct and Plagiarism:** DMACC’s Academic Misconduct Policy (ES4670) prohibits plagiarism; falsification; unauthorized collaboration during an exam, project, or assignment; or the misrepresentation of identity by a student or individual to complete an exam, course, or project. Plagiarism is defined as presenting someone else’s work or ideas as your own by including it into your work without citing the original author’s work. Academic Misconduct may be intentional or unintentional in nature. Academic Misconduct may result in sanctions for the student. Sanctions are issued based on the severity and nature of the misconduct. It is the student’s responsibility to become familiar with and follow DMACC’s Academic Misconduct procedure at this link: [https://dmacc.link/ES4670](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdmacc.link%2FES4670&data=04%7C01%7Csgbittner%40dmacc.edu%7C120aff3cd8d44af7b18208d9bb3645ed%7Ce91e8e9401b54e3699301436f67ce779%7C0%7C0%7C637746664030052678%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=pXhoK9T4n13lBchOczY6%2FL%2BuYj6uAKbVYGsO6ZpWEbk%3D&reserved=0)

## Support Services/Accommodations

**Services for Students with Disabilities:** <https://www.dmacc.edu/disabilities>   
Any student with a documented disability who requires reasonable accommodation should contact the Disability Services Coordinator at **515-964-6850** or the counseling & advising office on any campus to apply for services.

## Course Syllabus

**Disclaimer:** “This syllabus is representative of materials that will be covered in this class; it is not a contract between the student and the institution. It is subject to change without notice. Important: **All students are strongly encouraged to visit MyDMACC portal to review policies and procedures.** Any potential exceptions to stated policies and requirements will be addressed on an individual basis and only for reasons that meet specific requirements. If you have any problems related to this class, please feel free to discuss them with me.”

## Nondiscrimination Statement

Des Moines Area Community College shall not engage in nor allow discrimination covered by law against any person, group or organization. This includes in its programs, activities, employment practices, or hiring practices, and harassment or discrimination based on race, color, national origin, creed, religion, sex, sexual orientation, gender identity, age, disability, genetic information (in employment) and actual or potential parental, family or marital status. Veteran status in educational programs, activities, employment practices, or admission procedures is also included to the extent covered by law.

Individuals who believe they have been discriminated against may file a complaint through the College Discrimination Complaint Procedure. Complaint forms may be obtained from the Campus Provost's office, the Academic Deans' office, the Judicial Officer, or the EEO/AA Officer, Human Resources. ADA questions and concerns may be directed to the Section 504/ADA Coordinator at 2006 S. Ankeny Blvd, Bldg. 6, Ankeny, IA 50023, phone 515/964-6857, [dso@dmacc.edu](mailto:dso@dmacc.edu). Title IX questions and concerns may be directed to the Title IX Coordinator at 2006 S. Ankeny Blvd, Bldg. 1, Ankeny, IA 50023, phone 515/964-6216, [Title9@dmacc.edu](mailto:Title9@dmacc.edu). Questions or complaints about this policy may be directed to the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 W. Madison, Suite 1475, Chicago, IL 60661-7204, phone 312/730-1560, fax 312/730-1576, email [OCR.Chicago@ed.gov](mailto:OCR.Chicago@ed.gov).

**Further Procedure Information:**Students who wish additional information or assistance may refer to Student Services procedure ES 4645 located at [https://dmacc.link/ES4645](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdmacc.link%2FES4645&data=04%7C01%7Csgbittner%40dmacc.edu%7C120aff3cd8d44af7b18208d9bb3645ed%7Ce91e8e9401b54e3699301436f67ce779%7C0%7C0%7C637746664030042687%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=3VFWUnj34p%2BXbeN4WOA1ftB2zQvGducZygpZqdm3tWI%3D&reserved=0)

**ADA/Section 504 Information:**The Academic Support Services Director is the official Student Accommodation Officer/Section 504/ADA Coordinator for DMACC. The ADA Coordinator’s office is located in Bldg. 6-10E on the Ankeny Campus and may be contacted by voice (515-964-6857). The ADA Coordinator is responsible for ensuring that the college complies with federal regulations that guarantee qualified students with disabilities equal access to all programs and services. Any student, faculty, or staff member may contact the ADA Coordinator’s office for clarification of federal regulations, appeal of a grievance, or resolution of a disability-related problem.

## Additional Information

DMACC supports student success through our Early Alert System. Early Alert connects students to available resources such as advising, counseling, tutoring and more. Faculty members may refer students to these supports in cases in which a student is showing difficulty in attendance, course work, and/or reported situations in which more support could aide in college success. Students are encouraged to respond to all DMACC phone calls or emails and take full advantage of available resources to support a positive college experience. More information may be found at [https://earlyalert.dmacc.edu](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fearlyalert.dmacc.edu&data=02%7C01%7C%7Cbd667064bf58465b0dcc08d5d5fc3bdf%7Ce91e8e9401b54e3699301436f67ce779%7C0%7C0%7C636650201656152248&sdata=ZRYaOJqLkTvCMBTecCniKLas0YOwLF286H2OaWIHaig%3D&reserved=0).

To access additional information related to DMACC policies and procedures that impact the classroom (e.g. use of technology, weather-related cancellations, classroom conduct, etc.) please reference the DMACC student portal.

If you do not have access to a computer and need a printed version of any of the information described above, contact your instructor.

## Course Schedule

| **Week** | **Module** | **Assignment** | **Due Date** |
| --- | --- | --- | --- |
| Week 0 | Module 0 | Introduction (Topic 2)  e-Text Confirmation (Topic 3)  Install Visual Studio (Topic 4)  Verify GitHub Account (Topic 4)  Install SQL Express (Topic 4)  WebAppHelloWorld (Topic 5)  Murach Chapter 1 Quiz (Topic 6) |  |
| Week 1 | Module 1 | Chapter 2 Quiz (Topic 1)  Lab MVC App (Topic 1)  Chapter 3 Quiz (Topic 2)  Responsive Web App (Topic 2)  Final Project Introduction (Topic 3) | 2022-06-01 |
| Week 2 | Module 2 | Verify Azure Setup (Topic 1)  EF Core Web App Lab (Topic 2)  Murach Chapter 4 Quiz (Topic 3)  Multipage WebApp w/ DB (Topic 3)  Final Project Brainstorming (Topic 4) | 2022-06-08 |
| Week 3 | Module 3 | Debugging Journal (Topic 2)  Web App Debugging Lab (Topic 2)  Murach Chapter 5 Quiz (Topic 2)  WebApp with Unit Tests (Topic 3)  Propose One Final Project Idea (Topic 4) | 2022-06-15 |
| Week 4 | Module 4 | GitHub and SourceTree (Topic 1)  Final Project Team Submission (Topic 2) | 2022-06-22 |
| Week 5 | Module5 | Murac Chapter 6 Quiz (Topic 3)  Website Add Site Menu, Admin, and Routing (Topic 5) | 2022-06-29 |
| 2022-07-04: College Closed (Holiday) | | | |
| Week 6 | Module 6 | Murach Chapter 7 Quiz (Topic 3)  Web Site Addition-Creating Razor Templates (Topic 3) | 2022-07-06 |
|  | Module 7 | Murach Chapter 8 Quiz (Topic 3)  Web Site Addition: Data Transfer (Topic 3) | 2022-07-06 |
| Week 7 | Module 8 | Murach Chapter 9 Quiz (Topic 3)  Web Site Addition: Session State (Topic 3) | 2022-07-13 |
|  | Module 9 | Murach Chapter 10 Quiz (Topic 2)  Web Site Addition: Model Binding (Topic 2) | 2022-07-13 |
| Week 8 | Module 10 | Murach Chapter 11 Quiz (Topic 2)  Web Site Addition: Validation (Topic 2) | 2022-07-20 |
|  | Module 11 | Murach Chapter 12 Quiz (Topic 2)  Web Site Addition: Database (Topic 2) | 2022-07-20 |
| Week 9 | Module 12 | Murach Chapter 14 Quiz (Topic 3)  Web Site Addition: DI and Unit Tests (Topic 3) | 2022-07-27 |
|  | Module 13 | Murach Chapter 15 Quiz (Topic 2)  Web Site Addition: Tag Helpers, Partial Views, and View Components (Topic 2) | 2022-07-27 |
| Week 10 | Module 14 | Murach Chapter 16 Quiz (Topic 2)  Web Site Addition: Login (Optional: Extra Credit) (Topic 2) | 2022-07-27 |
| Week 11 | Final Project | Final Project Demos (In Class) | 2022-07-28 |
|  |  | Final Project | 2022-08-03 |