SYLLABUS

Course Title	Software Engineering
Course Number	ISM 325
Number of Credits	3
Course Dates	3/15/21 - 5/15/21 6 - 10:30 PM
Instructor	Steven Millet
Email Address	steven.millet@doane.edu
Office Hours/Availability	I am available before or after class. Email anytime. Immediate response between 10 AM – 12 AM daily, 10 hour delay thereafter
Phone Number	Phone texts can be sent directly to my Doane Email account. Just be sure you include your name and course number.
Textbook Information: **(e.g. title, edition,** **publisher, ISBN)**	No Textbook Required. Instructor supplied handouts and materials.
Additional Course Materials	Flash (thumb) Drive for saving backups
Course Description	An investigation and application of engineering principles to the development of software systems. Students will gain a better understanding of these principles through the completion of a software engineering project using the same software development environment learned in ISM 101 and ISM 102.

Program Outcomes	a. Develop analytical and critical thinking skills to gather and analyze information, to identify and solve problems, to determine potential outcome alternatives, and to make appropriate decisions b. Recognize ethical issues involved in information technology and its management c. Understand information science and technology concepts and processes, their relationships to each other, and their relationships to existing and emerging computing technologies d. Develop the confidence and the skill to learn independently and apply existing and emerging computing technologies and processes e. Develop the confidence and the skill to solve an unknown problem and to efficiently research, learn, and apply a previously unknown topic or skill to a novel problem- solving situation
Course Learning Outcomes/Objectives	1. Understand the phases involved in the Software Development Life Cycle (SWDLC). 2. Understand the software deployment design methods used in business today. 3. Be familiar with features of the Visual Basic and C# programming languages. 4. Be able to develop desktop programs utilizing the programming tools in Visual Studio.Net including HTML and XML. 5. Be able to plan the needs of a business software development project including database design. 6. Be able to develop a multi-language application solution for business using Visual Studio. Net.
Technology Requirements	https://www.doane.edu/faq/minimum-computer-requirements

Course Schedule

Week or Module	Topic	Content	Assessments Matched to Learning Outcomes	Due Date & Time
1	What is Software Engineering?	Course Overview SWDLC Application Development	L01	
2	Developing a VB Program	Object Oriented Programming Using Forms Design	L02 & L03	Lab #1 due week 3
3	Implementing Data Access	Basic Database Design	L05	Lab #2/Quiz #1 due week 4
4		Midterm Exam Lab Exam #1		Due week 5
5	Web Based Applications	Multi Server Development Using ASP.NET, Overview of C#	L04	Lab #3 due week 6
6	Business Utilization	Multi Business Application Development	L06	Lab #4 due week 7
7	Teamwork	Design and Implementation Using the Software Development Team	L06	Student Project Lab #5/Quiz #2 due week 8
8		Final Exam Lab Exam #2		Student Project Discussion

Grading Assessments

Type of Assessment	Number of Assignments	Percent of Total
Labs	5	35
Exams	2	40
Quizzes	2	15
Class Participation	Weekly	10

Grade Scale

A+ = 97-100%   A = 94-96%   A- = 90-93%   B+ = 87-89%   B = 84-86%   B- = 80-83%

C+ = 77-79%   C = 74-76%   C- = 70-73%   D+ = 67-69%   D = 64-66%   D- = 60-63%

F= 59% or below

Participation Policy	A student is expected to be prompt and regularly attend on-ground classes in their entirety. Regular engagement is expected for on-line courses. Participation in class discussions is an integral part of your grade.
Study Time	Expectation of the amount of time the course requires students to spend preparing and completing assignments. Typically, students could expect to spend approximately 12 hours a week preparing for and actively participating in this 8-week 3 credit hour course. This actual time for study varies depending on students' backgrounds.
Late Work	Late work will be accepted, if for an excused reason with no reduction in grade

Submitting Assignments	Assignments submitted during class time
Communication Policy including Assignment Feedback	Emails will be responded to by the end of the day M - F. Assignments will be returned the week following their due date. Assignments will be returned or assignment grade available one week after they are submitted for grading
Academic Integrity Policy	Doane University expects and requires all its students to act with honesty and integrity and respect the rights of others in carrying out all academic assignments. Academic dishonesty, the act of knowingly and willingly attempting or assisting others to gain academic success by dishonest means, is defined in four categories: 1. Cheating - "Intentionally using or attempting to use unauthorized information or study aids in an academic exercise." 2. Fabrication - "Intentional and unauthorized falsification of invention or any information or citation in an academic exercise." 3. Facilitating Academic Dishonesty - "Intentionally or knowingly helping or attempting to help another to commit an act of dishonesty," and/or coercing others to do the same. 4. Plagiarism - "Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise," in both oral and written projects. *Gehring, D., Nuss, E.M., & Pavela, G. (1986). Issues and perspectives on academic integrity. Columbus, OH: National Association of Student Personnel Administrators* For more information on the sanctions for academic dishonesty, please visit the website: https://catalog.doane.edu/content.php?catoid=16&navoid=1333
Academic Support	Please contact academicsupport@doane.edu https://www.doane.edu/graduate-and-adult/academic-support

Disability Services	https://www.doane.edu/disability-services Doane University supports reasonable accommodations to allow participation by individuals with disabilities. Any request for accommodation must be initiated by the student as soon as possible. Each student receiving accommodations is responsible for his or her educational and personal needs while enrolled at Doane University. Please contact 402-467-9031 for assistance.
Military Services	https://www.doane.edu/graduate-and-adult/military
Anti-Harassment Policy	http://catalog.doane.edu/content.php?catoid=5&navoid=452
Grade Appeal Process	http://catalog.doane.edu/content.php?catoid=5&navoid=238
Credit Hour Definition	Doane University follows the federal guideline defining a credit hour as one hour (50 minutes) of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks (one semester), or the equivalent amount of work over a different time period (e.g., an 8-week term). This definition applies to courses regardless of delivery format, and thus includes in-person, online, and hybrid courses (combination of in-person and online). It also applies to internship, laboratory, performance, practicum, research, student teaching, and studio courses, among other contexts.
Syllabus Changes	Circumstances may occur which require adjustments to the syllabus. Changes will be made public at the earliest possible time*.*
Syllabus Addendum	www.doane.edu/syllabus