# DOANE UNIVERSITY

# SYLLABUS

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| **Course Title** | Mobile Application Design and Development |
| **Course Number** | IST 327 |
| **Number of Credits** | 3 semester credits |
| **Course Dates** | 5/27/20 - 7/25/20   ZOOM Class Meeting Wednesday Evenings, 6:00 PM |
| **Instructor** | Steven Millet |
| **Email Address** | steven.millet@doane.edu |
| **Office Hours/Availability** | I am available before or after class. Email anytime.<br>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. |
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| **Textbook Information:**<br>**(e.g. title, edition, publisher, ISBN)** | Required: <u>Android Programming for Beginners, 2nd edition.</u> By John Horton, Packt Publishing 2018, **ISBN-13:** 978-1789538502<br><br>And Handouts Provided by the Instructor |
| **Additional Course Materials** | Flash (thumb) Drive for saving backups |
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| **Course Description** | Students will work through the process of analyzing, designing, and implementing an application on a mobile platform. The first half of the |

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| | course will be a workshop environment in which each student is guided through the creation of sample programs.  The second half of the course will involve each student creating a unique application.  As a result of the experiences in this course, students will further develop their problem-solving and communication skills and build skills allowing them to develop mobile applications using current development tools. |
| **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<br>b. Recognize ethical issues involved in information technology and its management<br>c. Understand information science and technology concepts and processes, their relationships to each other, and their relationships to existing and emerging computing technologies<br>d. Develop the confidence and the skill to learn independently and apply existing and emerging computing technologies and processes<br>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).<br>2. Understand the software deployment design methods used in Android development.<br>3. Be familiar with features of the Java programming language.<br>4. Be able to develop phone and tablet programs utilizing the programming tools in the JDK for Android development including XML.<br>5. Be able to plan the needs of a business/consumer app development project including database design. |
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| **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 |
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| 1 | Introduction to Andriod Development | Course Overview | L05 | |
| 2 | App Development with JAVA | Programming Basics | Lab #1 L03 | Week 3 by 6 p.m. |
| 3 | Andriod App Project Development | Software Development Team Roles | Lab #2 L04 | Week 4 by 6 p.m. |
| 4 | Review | Midterm Exam | | |
| 5 | Student Project Selection | Planning and Designing An Android App | Lab #3 L04 | Week 3 by 6 p.m. |
| 6 | Project Development | Enhancing Management Decision Making | Lab #4 L04 | Week 7 by 6 p.m. |
| 7 | Project Development | Android App Project Management | | |
| 8 | Review Completed Projects | Final Exam | | |

**Grading Assessments**

| Type of Assessment | Number of Assignments | Percent of Total |
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| Exams | 2 | 40 |
| Class Activities (Labs) | 4 | 30 |
| Class Project | 1 | 20 |
| 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

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| **Participation Policy** | A student is expected to be prompt and regularly attend on-ground classes in their entirety.   Regular engagement is expected for online 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. |

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| **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:<br><br>1. Cheating - "Intentionally using or attempting to use unauthorized information or study aids in an academic exercise."<br>2. Fabrication - "Intentional and unauthorized falsification of invention or any information or citation in an academic exercise."<br>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.<br>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.<br>5.<br>Gehring, D., Nuss, E.M., & Pavela, G. (1986). Issues and perspectives on academic integrity. Columbus, OH: National Association of Student Personnel Administrators<br><br>For more information on the sanctions for academic dishonesty, please visit the website:<br>https://catalog.doane.edu/content.php?catoid=16&navoid=1333 |
| **Academic Support** | Please contact academicsupport@doane.edu<br>https://www.doane.edu/graduate-and-adult/academic-support |
| **Disability Services** | https://www.doane.edu/disability-services<br>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. |
| **Military Services** | https://www.doane.edu/graduate-and-adult/military |

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| **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*.* |