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The efficiency of programming and data processing is directly linked to the structure of the data being processed and algorithms used. The course presents fundamental computing algorithms and their associated data structures and abstraction. The course combines the concepts of information organization, information manipulation, and algorithms. | | |  |  | | --- | --- | | **Outcome** |  | | Recognize and describe basic and object-oriented programming elements.[a,b,i,CS.k] Read and explain the function of an algorithm implemented in the Java programming language.[c,d,f] Design, write, and debug small scale computer programs that implement solutions to solved problems.[b,c,CS.k] (GE-CT) Apply software development methodology.[c,i,CS.k] Demonstrate competence in the use of a sophisticated programming environment.[i] Demonstrate ability to perform and complete assigned tasks as a member of a group.[d,f] Communicate clearly, orally, graphically, or in writing, the problem-solving strategies employed.[d,f] (GE-OCP,GE-WR) | | |  |  | | --- | --- | | **Schedule** |  | | Week 1: chapter 1 Week 2-Week 4: chapter 2 Week 5-Week 9: chapter 3 Week 10-Week 13: chapter 4 | | |  |  | | --- | --- | | **Prerequisite** |  | | Elements of Computer Programming II | | |  |  | | --- | --- | | **Evaluations** |  | | Homework 20% Book Reading 20% Class participation 20% Midexam 20% Final exam 20% | | |  |  | | --- | --- | | **Assessment** |  | | Outcome 1- Assessment Instrument(s):    Exams Theory, and Quizzes. Assessment Method(s):   Embedded questions  Outcome 2- Assessment Instrument(s):    Exams, and Laboratory exercises. Assessment Method(s):   Rubric  Outcome 3- Assessment Instrument(s):    Exams practical,  Laboratory exercises, and project. Assessment Method(s):    Embedded questions, Rubric  Outcome 4- Assessment Instrument(s):    Exams practical,  Laboratory exercises, and project. Assessment Method(s):    Embedded questions, Rubric  Outcome 5- Assessment Instrument(s):   Exams practical,  Laboratory exercises, and project. Assessment Method(s):   Embedded questions, Rubric  Outcome 6- Assessment Instrument(s):    Term Project. Assessment Method(s):   Rubric and Peer Evaluations.  Outcome 7- Assessment Instrument(s):    Exams Practical, and Laboratory exercises. Assessment Method(s):   Rubric | | |  |  | | --- | --- | | **Policy** |  | | Video Taping The courseware and delivery of lectures are intellectual property of the instructor. The instructor does not wish to be video taped, photographed, or have his likeness captured electronically. It is class policy that no video recording device be used to capture any portion of the lecture and no photographic device be used to capture images of the instructor. It is the instructor?s right and preference not to have his likeness video taped or photographed. Cell Phones and Laptops There are many opportunities before our class meetings and after our class meetings to use your cell phone and other electronic devices to your heart?s desire. During class meetings, it is considered a disruption. Cell phones and pagers must be switched off or put on silent alert during class lectures. Laptops and tablets are permitted but should be used for class activities only (e.g. taking notes, or interactive MATLAB only). Laptops, phones, and other electronic devices may not be used for unrelated activities such as web surfing, email, FaceBook, twitter, instant messaging/SMS during lectures, discussions, or office hours. When you disrupt the class, you are cheating your classmates out the education they are working hard to earn. Any student with an electronic device that disrupts the class or is used for anything other than class related activities will be kicked out of the class meeting. The instructor reserves the right to issue a 2% penalty deducted from your final grade for each disruptive incident. Note that when the instructor goes over MATLAB examples in class, it is not a tutoring session. The purpose of the MATLAB examples in class is to give you an example of the thought process and design process involved in prototyping concepts. Tardiness Policy As the classroom is fairly small, it is very disruptive when you arrive to class late. Come to class on time (i.e. before the class starts). The policy is simple. Come to class on time or do not come to class. The class time is when lecture starts, not when you arrive to the classroom. Manage your time appropriately to ensure you are always on time. Conversely, respecting your time, I will always end class on-time.  I will treat you as an adult and expect you to manage your time appropriately and be in class on time. The disruption to class is effectively stealing from the education for which all your peers in the class have invested a significant amount of energy, time, and money. I reserve the right to deduct 2% of your final grade for every instance of your absence or coming late to class. That means, for example, if you are late 5 times during the semester and your final grade is 90%, you get a total 10% deduction from your grade resulting in a total 10% deduction for a final grade of 80%. | |  |
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