EC-312 Digital Image Processing Lab Rubrics Spring 2019

	Unsatisfactory (0-3 marks)	Satisfactory (4-6 marks)	Good (7-8 marks)	Excellent (9-10 marks)
Specifications **Weight = 35%**	• Completed less than 70% of the requirements.	• Completed between 70-80% of the requirements.	• Completed between 80-90% of the requirements.	• Completed between 90-100% of the requirements.
Coding Standards/ Time Efficiency **Weight = 20%**	• No name, date, or assignment/task title included • Poor use of white space (indentation, blank lines). • Disorganized and messy • Poor use of variables (many global variables, ambiguous naming). • Not delivered on time or not in correct format (disk, email, etc.)	• Includes name, date, and assignment/task title. • White space makes program fairly easy to read. • Organized work. • Good use of variables (few global variables, unambiguous naming). • Delivered on time, and in correct format (disk, email, etc.)	• Includes name, date, and assignment/task title. • Good use of white space. • Organized work. • Good use of variables (no global variables, unambiguous naming) • Delivered on time, and in correct format (disk, email, etc.)	• Includes name, date, and assignment/task title. • Excellent use of white space. • Creatively organized work. • Excellent use of variables (no global variables, unambiguous naming). • Delivered on time, and in correct format (disk, email, etc.)
Documentation **Weight = 15%**	• No documentation included.	• Basic documentation has been completed including descriptions of all variables. • Purpose is noted for each function.	• Clearly documented including descriptions of all variables. • Specific purpose is noted for each function and control structure.	• Clearly and effectively documented including descriptions of all variables. • Specific purpose is noted for each function, control structure, input requirements, and output results.
Runtime/Output **Weight = 15%**	• Does not execute due to errors. • User prompts are misleading or non-existent. • No testing has been completed.	• Executes without errors. • User prompts contain little information, poor design. • Some testing has been completed.	• Executes without errors. • User prompts are understandable, minimum use of symbols or spacing in output. • Thorough testing has been completed	• Executes without errors excellent user prompts, good use of symbols, spacing in output. • Thorough and organized testing has been completed and output from test cases is included.
Efficiency **Weight = 15%**	• A difficult and inefficient solution.	• A logical solution that is easy to follow but it is not the most efficient.	• Solution is efficient and easy to follow (i.e. no confusing tricks).	• Solution is efficient, easy to understand, and maintain.

Score = $\sum traits\_weight * trait\_score$

EC-312 Digital Image Processing Project Spring 2019

Trait	Unsatisfactory (0-3)	Satisfactory (4-6)	Good (7-8)	Exceptional (9-10)
Understanding of Problem 25%				
Problem Understanding Weight = 15%	There is no knowledge of the problem depth.	The depth of the problem is very weak.	The depth of problem is understood to a sufficient level.	The depth of the problem is exceptionally understood.
Review Weight = 10%	No effort made to cover related work of the selected problem.	Related work covered is very sketchy.	Related work of the problem is covered sufficiently except for the latest developments.	Related work of the problem is covered to an excellent extent.
Presentation and Demonstration Skills 25%				
Demonstration Weight = 25%	The demonstration is poor with no organization and fails at the cross questioning session.	The demonstration is unorganized and cross questioning session is sketchy.	Good skills while demonstrating project and fairing fairly good in cross questioning	Excellent command of project is shown with exceptional question answer session.
Coding and Documentation 50%				
Specifications Weight = 30%	The program is producing incorrect results.	The program produces correct results but does not display them correctly.	The program works and produces the correct results and displays them correctly. It also meets most of the other specifications.	The program works and meets all of the specifications.
Readability Weight = 10%	The code is poorly organized and very difficult to read.	The code is readable only by someone who knows what it is supposed to be doing.	The code is fairly easy to read.	The code is exceptionally well organized and very easy to follow.
Report (Documentation) Weight = 10%	The documentation is simply comments embedded in the code and does not help the reader understand the code.	The documentation is simply comments embedded in the code with some simple header comments separating routines.	The documentation consists of embedded comment and some simple header documentation that is somewhat useful in understanding the code.	The documentation is well written and clearly explains what the code is accomplishing and how.