ITMD 413 RUBRIC

ITMD 413 Open Source Programming Students may be scored on a scale of 1 to 5; scores of 2 and 4 may be interpolated.

Program Educational Objectives			
Objective Score ►	5	3	1
Perform requirements analysis, design and administration of computer and network-based systems conforming to policy and best practices, and monitor and support continuing development of relevant policy and best practices as appropriate.	The student is consistently able to perform requirements analy- sis, to design and administer computer and network-based systems conforming to policy and best practices, and to moni- tor and support continuing development of relevant policy and best practices as appropriate	The student is generally able to perform requirements analysis, to design and administer com- puter and network-based sys- tems conforming to policy and best practices, and to monitor and support continuing devel- opment of relevant policy and best practices as appropriate, but this may not be consistent	The student is unable to perform requirements analysis, to design and administer computer and network-based systems con- forming to policy and best prac- tices, or to monitor and support continuing development of relevant policy and best practices
Course student outcomes			
		3	1
Write, compile, execute, trouble- shoot, and resolve problems using the Python Programming Language and its features	The student is consistently able to write, compile, execute, troubleshoot, and resolve problems using the Python Programming Language and its features	The student is able with some assistance to write, compile, execute, troubleshoot, and resolve problems using the Python Programming Language and its features	The student is unable to write, compile, execute, troubleshoot, and resolve problems using the Python Programming Language and its features
Demonstrate Object Oriented Programming methodology in program development	The student is consistently able to demonstrate Object Oriented Programming methodology in program development	The student is basically able to demonstrate Object Oriented Programming methodology in program development, but may require some assistance	The student is not able to demonstrate Object Oriented Programming methodology in program development
Identify important Python ample libraries	The student is consistently able to identify important Python ample libraries	The student is generally able to identify important Python am- ple libraries	The student is unable to identify important Python ample libraries
Describe the fundamentals of Data Science	The student is able to describe the fundamentals of Data Science accurately and in detail	The student is able to describe the fundamentals of Data Science with some omissions or inaccuracies	The student is unable to describe the fundamentals of Data Science
Locate and use Help Resources	The student is consistently able to locate and use Help Resources	The student is generally able to locate and use Help Resources	The student is unable to locate and use Help Resources
Demonstrate implementation of a Graphical User Interface (GUI)	The student is consistently able to demonstrate implementation of a Graphical User Interface (GUI)	a Graphical User Interface (GUI)	The student is unable to demonstrate implementation of a Graphical User Interface (GUI)
Analyze and evaluate software application and development theory and concepts	The student is fully able to analyze and evaluate software application and development theory and concepts	The student is frequently able to analyze and evaluate software application and development theory and concepts	The student is unable to analyze and evaluate software applica- tion and development theory and concepts
Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions	The student is consistently able to analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions	The student is, under most cir- cumstances, able to analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions	The student is unable to analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions
Design, implement, and evaluate a computing-based solution to meet a given set of com- puting requirements in the context of the program's discipline	The student is consistently able and prepared to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements	The student in most cases is able and prepared to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements	The student is not able to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements
laentify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems	I ne student is always able to identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems	I ne student is occasionally able to identify and analyze user needs and take them into ac- count in the selection, creation, evaluation, and administration of computer-based systems, but not necessarily consistently	I ne student is unable to identify and analyze user needs and take them into account in the selec- tion, creation, evaluation, and administration of computer- based systems