STAT 450 & 460 Rubric

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| Course: …………………………  Assignment: …………………………  Student name …………………………… |
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| **CATEGORY** | **4** | **3** | **2** | **1** |
| **Neatness and Organization** | The work and solution is presented in a neat, clear, organized fashion that is well written and easy to read. | The work and solution is presented in a neat and organized fashion that is usually well written and easy to read. | The work and solution is presented in an organized fashion but may be hard to read at times and the written explanation is at times unclear. | The work and solution appears sloppy and unorganized. It is hard to know what information goes together and poorly written overall. |
| **Explanation** | Written explanation of solution is detailed and clear. | Written explanation of solution is clear. | Written explanation of solution is a little difficult to understand, but includes critical components. | Written explanation of solution is difficult to understand and is missing several components OR was not included. |
| **Strategy/Procedures** | Typically, uses an efficient and effective strategy to solve the problem. | Typically, uses an effective strategy to solve the problem. | Sometimes uses an effective strategy to solve the problem, but does not do it consistently. | Rarely uses an effective strategy to solve the problem. |
| **Mathematical Concepts** | Written explanation shows complete understanding of the mathematical concepts used to solve the problem. | Written explanation shows substantial understanding of the mathematical concepts used to solve the problem. | Written explanation shows some understanding of the mathematical concepts needed to solve the problem. | Written explanation shows very limited understanding of the underlying concepts needed to solve the problem OR is not written. |
| **Mathematical Reasoning** | Uses complex and refined mathematical reasoning and notation. | Uses effective mathematical reasoning and notation. | Some evidence of mathematical reasoning and notation. | Little evidence of mathematical reasoning and notation. |
| **Conclusions** | Written conclusions are present and supported by data (examples/counter-examples; reasoning) | Written conclusions are present and supported by some data (examples/counter-examples; reasoning) | Written conclusions are present but no data is given in support(examples/counter-examples; reasoning) | No conclusions or data given.  (examples/counter-examples; reasoning) |