

AME 21216 – Tech Memo Score Sheet

A11 – Transient Signals

NDID#: _____

Lab Section (Day/time): _____

For more details on any of the items below, please refer to the lab handout.

Item and Description	Points Awarded	Possible Points
Technical writing and format – Please address all questions from the lab handout in the paragraphs and captions. You should have the relevant equations in your paragraphs!		5
Plot of measured transient temperature T vs. t (both heating and cooling on same plot)		3
Plot of the linearized temperature data $y(t)$ vs. t with linear curve fits (both heating and cooling on same plot)		4
Plot of measured amplitude vs. driving frequency with theoretical curve for ultrasonic transducer		4
A table containing: <ul style="list-style-type: none">• Extrapolated time constant for heating τ_H• Extrapolated time constant for cooling τ_c• Resonance frequency f_0 for the UT• Damping ratio ζ_{UT} for the UT		4
TOTAL		20