WESTERN NEW ENGLAND UNIVERSITY | WNE

Computer Competence

<u>Learning Outcome</u> 1: Ability to create digital computational artifacts (e.g., spreadsheets, SAP or SPSS reports, source code, etc.) used to solve problems.

Learning Outcome	4 Thorough	3 Adequate	2 Limited	1 Weak	Unscorable
Ability to create digital computational artifacts (e.g., spreadsheets, SAP or SPSS reports, source code, etc.) used to solve problems	Clearly makes correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data and/or Employs logical thinking in designing the artifact and Makes almost no errors and Assignment is complete	Makes many correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data and/or Mostly employs logical thinking in designing the artifact and/or Makes minor errors and Assignment is complete or essentially complete	Makes some correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data and/or Makes some errors in logical thinking in designing the artifact and/or Makes some minor errors and/or major errors and/or Assignment is incomplete	Makes few correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data and/or Makes many errors in logical thinking in designing the artifact and/or Makes many major errors and/or Assignment is incomplete	Evidence does not measure learning outcome

<u>Learning Outcome 2</u>: Ability to apply appropriate computing tools to solve problems, describe data, and/or analyze models.

Learning Outcome	4 Thorough	3 Adequate	2 Limited	1 Weak	Unscorable
Ability to apply appropriate computing tools to solve problems, describe data, and/or analyze models	Applies appropriate computing tools or methods; Employs correct logical and algorithmic thinking to solve a problem and/or Creates an accurate & appropriate representation of data, clearly interprets data and/or results of statistical tests and/or Clearly analyzes models or simulations, e.g., makes predictions, applies What-if analysis, describes assumptions, constraints, conclusions	Applies appropriate computing tools or methods; Mostly employs correct logical and algorithmic thinking to solve a problem and/or Creates mostly accurate & appropriate representation of data, interprets data and/or results of statistical tests well and/or Analyzes models or simulations well and/or Makes minor errors	Applies some appropriate computing tools or methods; Employs some correct logical and algorithmic thinking to solve a problem and/or Creates some inaccurate or inappropriate representations of data, struggles to interpret data and/or results of statistical tests properly and/or Some analysis of models or simulations and/or Makes some minor errors and/or major errors	Applies few appropriate computing tools or methods; Employs very little correct logical and algorithmic thinking to solve a problem and/or Creates many inaccurate or inappropriate representations of data, makes many errors interpreting data and/or results of statistical tests and/or Poorly analyzes models or simulations and/or Makes many major errors	Evidence does not measure learning outcome