

Computer Competence

Learning Outcome 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	<p>Clearly makes correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data</p> <p>and/or</p> <p>Employs logical thinking in designing the artifact</p> <p>and</p> <p>Makes almost no errors</p>	<p>Makes many correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data</p> <p>and/or</p> <p>Mostly employs logical thinking in designing the artifact</p> <p>and/or</p> <p>Makes minor errors</p>	<p>Makes some correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data</p> <p>and/or</p> <p>Makes some errors in logical thinking in designing the artifact</p> <p>and/or</p> <p>Makes some minor errors and/or major errors</p>	<p>Makes few correct and appropriate choices in writing or using functions, syntax, statistical tests and/or displays of data</p> <p>and/or</p> <p>Makes many errors in logical thinking in designing the artifact</p> <p>and/or</p> <p>Makes many major errors</p>	Evidence does not measure learning outcome

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