## NC State General Education Competency Assessment
### Quantitative Literacy Outcomes Map

<table>
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<tr>
<th>Outcome</th>
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| **Calculation:** A generally educated NC State student will perform basic calculations using mathematical reasoning and problem solving in core areas including arithmetic, numbers and operations, algebra, geometry, and statistics. | HEIghten Quantitative Literacy Assessment  
Content Areas: Algebra, Number & Operations, Probability & Statistics, Geometry & Measurement | The HEIghten Quantitative Literacy Assessment is administered every 3-years. The Office of Assessment administered the HEIghten to freshmen in fall 2018 and to seniors in spring 2018. |
| CAT  
Question: 12 | CAT is administered every 3-years to seniors. The Office of Assessment will administer the CAT again in spring 2020. |
| Graduating Senior Survey  
Question: Section C, Question 1, Sub-question F | The Graduating Senior Survey is administered every 3-years. OIRP last administered the survey in 2018-2019. |
| **Interpretation:** A generally educated NC State student will explain information generated or presented in quantitative or mathematical forms (e.g., equations, expressions, graphs, diagrams, tables, and words). | HEIghten Quantitative Literacy Assessment  
Content Area: Probability & Statistics: Data interpretation & representation  
Problem Solving Skill Area: Interpretation | The HEIghten Quantitative Literacy Assessment is administered every 3-years. The Office of Assessment administered the HEIghten to freshmen in fall 2018 and to seniors in spring 2018. |
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| **Application/Analysis:** A generally educated NC State student will make judgments and draw appropriate conclusions based on the quantitative, logical and statistical analysis of data, while recognizing the limits of this analysis. | HEIghten Quantitative Literacy Assessment  
Problem Solving Areas: Interpretation, Strategic Knowledge & Reasoning | The HEIghten Quantitative Literacy Assessment is administered every 3-years. The Office of Assessment administered the HEIghten to freshmen in fall 2018 and to seniors in spring 2018. |
| CAT  
Questions: 1, 2, 13 | CAT is administered every 3-years to seniors. The Office of Assessment will administer the CAT again in spring 2020. |
| Graduating Senior Survey  
Question: Section C, Question 1, Sub-question F | The Graduating Senior Survey is administered every 3-years. OIRP last administered the survey in 2018-2019. |
| **Representation:** A generally educated NC State student will convert relevant information into various quantitative forms (e.g., equations, graphs, diagrams, tables, maps, words). | HEIghten Quantitative Literacy Assessment  
Content Area: Probability & Statistics: Data interpretation & representation  
Problem Solving Skill: Modeling | The HEIghten Quantitative Literacy Assessment is administered every 3-years. The Office of Assessment administered the HEIghten to freshmen in fall 2018 and to seniors in spring 2018. |
| | | |
| **Communication:** A generally educated NC State student will express quantitative, logical, and statistical evidence in support of the argument or purpose of the work (in terms of what evidence is used and how it is formatted, presented, and contextualized). | HEIghten Quantitative Literacy Assessment  
Problem Solving Skill Area: Communication | The HEIghten Quantitative Literacy Assessment is administered every 3-years. The Office of Assessment administered the HEIghten to freshmen in fall 2018 and to seniors in spring 2018. |
| CAT  
Questions: 2, 3, 9 | CAT is administered every 3-years to seniors. The Office of Assessment will administer the CAT again in spring 2020. |