Pacing Guide: Probability and Statistics I

Note: This Pacing Guide aligns with the activities in the Acrobatiq learning resource accessed through the “Engaging the Content” section.

<table>
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<tr>
<th>Week</th>
<th>Topic</th>
<th>Summary of Resources and Activities</th>
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| 1    | Preparing for Success         | 1. Read “Introduction,” “Learning Strategies” and “The Big Picture” under “Engaging the Content” before beginning the learning modules  
2. Familiarize yourself with the learning resources needed for this course  
3. Take the pre-assessment for the course                                                                 |
|      | Learning Resources            |                                                                                                                                                                                                                                      |
|      | Engaging the Content          | 1. Read “Accessing the Acrobatiq Learning Resource” and note location of the “splash page” and “OLI Probability and Statistics” resources and activities  
2. Read “Calculator Skills and Formulas to Memorize”  
3. Draw a “scatterplot” and determine the regression line of the “Open Learning Initiative Probability and Statistics Course”  
4. Memorize the concepts under “Key Formulas to Memorize”                                                                                                            |
|      | Module 1: Examining Distributions | 1. Click on “Probability and Statistics,” select “Course Syllabus” and “Module 1” (Examining Distributions). Read through “Measures of Spread 5 of 5”  
2. Engage the activities in Module 1  
3. Memorize the 1.5 (IQR) Criterion for outliers (pg 25)  
4. Memorize the standard deviation rule (pg 31)  
5. Summarize definitions and key ideas with attention to “Comments and Summary” sections in Module 1                                                                 |
| 2    | Module 2: Examining Relationships | 1. Engage the activities in Module 2: “Examining Relationships”  
2. Draft a summary for Module 2                                                                                                                                                                                                     |
|      | Module 3: Sampling            | 1. Engage the activities in Module 3: “Sampling”  
2. Draft a summary for Module 3                                                                                                                                                                                                       |
| 3    | Module 4: Designing Studies   | 1. Engage the activities in Module 4: “Designing Studies”  
2. Draft a summary for Module 4                                                                                                                                                                                                        |
| 4    | Module 5: Introduction (Probability) | 1. Engage the activities in Module 5: “Introduction (Probability)”  
2. Engage the activities in Module 5                                                                                                                                                                                                     |
2. Memorize “Probability Rules” pg 110  
3. Draft a summary for Module 6                                                                                                                                                                                                            |
| 5    | Module 7: Conditional         | 1. Engage the activities in Module 7: “Conditional Probability and Independence”                                                                                                                                                      |
| Probability and Independence | 2. Memorize “General Multiplication Rule” on pg 118 and read pg 119  
3. Draft a summary for Module 7 |
|-------------------------------|-------------------------------------------------------------------|
| 6 Course Review                | 1. Review the activities in Module 1  
2. Review summaries of Modules 1-7  
3. Review “Calculator Skills” including how to draw a scatterplot, finding the correlation coefficient, and determining the regression line (pg 51) of the Open Learning Initiative Probability and Statistics Course.  
4. Watch the following video: Linear Regression and Correlation for extra help  
5. Review Formulas to Memorize: The 1.5 (IQR) Criterion for Outliers (pg 25), The Standard Deviation Rule (pg 31), Probability Rules (pg 110) and Multiplication Rule (pg 118)  
6. Complete preassessment PTOC  
7. Complete objective assessment TOC1 |