**Course Learning Report**

Course: Math 115

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Author: Shiuling Huang on behalf of Jeff N. and Justin Kong

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| PROGRAM OUTCOME | Competency | **Assessment Method** | **Expected Level of Achievement** | **Results of Assessment** | **Next Steps \*** |
|  | Competency #1:  Articulate and interpret various descriptive statistics, such as mean, median, mode,  range, variance and standard deviation. | **What**: Final Exam  **How**: Paper Exam  **Who**: A total of 59 students  **When**: In-class/take-home during finals week | Expected: At or above 70% | Results:  55/59  **Overall : 93.2%** | Date: Spring 2019  Action:  \_\_\_Revise syllabus  \_\_\_Curriculum update/change  \_\_\_Revise teaching method  \_\_\_Develop student support  \_\_Other  •Met expected level of achievement |
|  | Competency #2:  Draw and interpret various graphs, such as frequency histograms, bar graphs and  cumulative frequency histograms. | **What**: Final Exam  **How**: Paper Exam  **Who**: A total of 59 students  **When**: In-class/take-home during finals week | Expected: At or above 70% | Results:  56/59  **Overall: 94.9%** | Date: Spring 2019  Action:  \_\_\_Revise syllabus  \_\_\_Curriculum update/change  \_\_\_Revise teaching method  \_\_\_Develop student support  \_\_\_Other\_  •Met expected level of achievement |
|  | Competency #3:  Solve probability problems involving the concepts of independent events, mutually  exclusive events and conditional probability. | **What**: Final Exam  **How**: Paper Exam  **Who**: A total of 59 students  **When**: In-class/take-home during finals week | Expected: At or above 70% | Results:  133/161  **Overall: 82.6%** | Date: Spring 2019  Action:  \_\_\_Revise syllabus  \_\_\_Curriculum update/change  \_\_\_Revise teaching method  \_\_\_Develop student support  \_\_\_Other  •Met expected level of achievement |
|  | Competency #4:  Calculate probabilities involving normal random variables. | **What**: Final Exam  **How**: Paper Exam  **Who**: A total of 59 students  **When**: In-class/take-home during finals week | Expected: At or above 70% | Results:  39/59  **Overall : 66.1%** | Date: Spring 2019  Action:  \_\_\_Revise syllabus  \_\_\_Curriculum update/change  \_\_\_Revise teaching method  \_\_\_Develop student support  \_\_Other  • Instructors can have additional handouts in co-requisite Math 78 for students to work on.  Most students do fine on these ideas when tested on the hour exams, but the final is where they fall down. We plan to review these concepts rather than focus too much on the new items before final. |
|  | Competency #5:  Determine and interpret (for large samples) confidence interval estimates of population  means and proportions. | **What**: Final Exam  **How**: Paper Exam  **Who**: A total of 59 students  **When**: In-class/take-home during finals week | Expected: At or above 70% | Results:  96/127  **Overall : 75.6%** | Date: Spring 2019  Action:  \_\_\_Revise syllabus  \_\_\_Curriculum update/change  \_\_\_Revise teaching method  \_\_\_Develop student support  \_\_Other  •Met expected level of achievement |
|  | Competency #6:  Draw a scatter diagram, determine and draw the corresponding regression line, and calculate  and interpret the corresponding correlation coefficient. | **What**: Final Exam  **How**: Paper Exam  **Who**: A total of 59 students  **When**: In-class/take-home during finals week | Expected: At or above 70% | Results:  109/127  **Overall : 85.8%** | Date: Spring 2019  Action:  \_\_\_Revise syllabus  \_\_\_Curriculum update/change  \_\_\_Revise teaching method  \_\_\_Develop student support  \_\_Other  •Met expected level of achievement |