Table 1. Study Quality Ratings Items Scores

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| Quality Measure | Rating |
| Sample size | Based on tenets of central limit theorem0 = less than or equal to 351 > 35 |
| Objective measure  | 0 = quizzes; 1 = exam or final; 2 = final course grade; 3 = standardized |
| Study design | 0 = non-randomized 1 = randomized  |
| Clarity of outcome definition | 0 = no clear definition/lack of discussion of how outcomes were determined1 = clarity in defining outcome/clearly defined academic achievement |
| Well defined methods  | 0 = lack of clarity in discussion of methods implemented in the flipped classroom1 = clarity of discussion of methods implemented in the flipped classroom |
| TOTAL | Range of scores:  0-7 0-3 low quality4-5 moderate quality 6-7 high quality |