**Individual Direct Assessments Rubric Worksheets**

**Operating Systems**

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| Rubric | Operating Systems | | | |
| Category of Assessment | Inadequate | Needs Improvement | Adequate | Excellent |
| Processes, threads, and process scheduling | The student has not demonstrated an understanding of the processes, threads, and scheduling. | The student has somewhat of a notion of a process or a thread, but has difficulty understanding the dynamics of scheduling/task switching etc. | The student has demonstrated an understanding of a process or a thread, the dynamics of scheduling/task switching etc., but still makes some errors. | The student has demonstrated a thorough understanding of processes, threads, task switching, and process scheduling. |
| Concurrency: race conditions, semaphores, deadlock | The student has not demonstrated an understanding of concurrency, race conditions, semaphores, and deadlock. | The student has somewhat of a notion of concurrency, synchronization, semaphores, and deadlock. | The student has demonstrated an understanding of concurrency, synchronization, semaphores, and deadlock. | The student has demonstrated a thorough understanding of concurrency and related topics such as synchronization, semaphores, and deadlock. |
| Networking, client/server computing | The student has not demonstrated an understanding of computer networking, internet, and client/server computing. | The student has somewhat of a notion of computer networking, and client/server computing. | The student has demonstrated an understanding of computer networking, internet, and client/server computing, but still misses some of the subtleties. | The student has demonstrated a thorough understanding of computer networking, internet, and client/server computing. |
| Specifications | The program is producing incorrect results. | The program produces correct results but does not display them correctly. | The program works and produces the correct results and displays them correctly. It also meets most of the other specifications. | The program works and meets all of the specifications. |
| Readability | The code is poorly organized and very difficult to read. | The code is readable only by someone who knows what it is supposed to be doing. | The code is fairly easy to read. | The code is exceptionally well organized and very easy to follow. |

**Assessment**

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| Rubric | Operating Systems | | | |
| Category of Assessment | Inadequate | Needs Improvement | Adequate | Excellent |
| Specifications/Problem Solving |  |  |  |  |
| Readability |  |  |  |  |
| Documentation |  |  |  |  |
| Delivery |  |  |  |  |
| Syntax |  |  |  |  |
| Understanding |  |  |  |  |

If 75% of the students achieve levels c or better, then they have met the ABET/HLC performance standard for the course.

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| Summary of Assessment **Improvement** |

Assessed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_