Student Name

School / Training Facility

**ARTICULATION COMPETENCY RECORD**

**Baker College**

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| Please check below each skill the student has mastered with a minimum of 80 percent accuracy. |

**EGR 101: Engineering Graphics**

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| **Task** | | **Satisfactory** | **Unsatisfactory** |
| 1. | Construct assigned drawings so they are technically correct, showing all required lines to describe each feature. |  |  |
| 2. | Complete all assignments which involve the use of a straight edge, triangles, scales, compass or other drafting tools so they are accurate within + or - 1/32". |  |  |
| 3. | Complete sketching of 3-view orthographic projection problems using grids provided for guidelines. |  |  |
| 4. | Complete all lettering assignments, using guidelines and an acceptable form of either straight or inclined lettering. |  |  |
| 5. | Identify and properly use the line symbols, as required on each drawing, incorporating proper line weight and form. |  |  |
| 6. | Complete all drawings so they reflect proper 3-view orthographic projection techniques and view placement. |  |  |
| 7. | Complete all assignments requiring dimensioning to comply with ANSI guidelines. |  |  |
| 8. | Model all assignments/drawings according to the textbook, instructor guidelines and ANSI Y14.5 M standards. |  |  |
| 9. | Construct all drawings involving auxiliary views to reflect proper rotation to achieve true size for dimensioning purposes. |  |  |
| 10. | Demonstrate the ability to complete all other auxiliary views by beginning with the primary auxiliary view. |  |  |
| 11. | Construct all 2-view and 3- view drawings in accordance with accepted drawing practices, including all possible line types, center lines, hidden lines, etc. |  |  |
| 12. | Use proper layout techniques in preparation for completing final copy of drawings. |  |  |
| 13. | Construct a bill of materials indicating the quantity, item name, material used, description and part number. |  |  |
| 14. | Develop a title block including the drawing number, name of the organization, a description and the scale used. |  |  |
| 15. | All orthographic drawings will be constructed according to the Third-angle Projection method. |  |  |
| 16. | Sectional views will be created using standard sectioning rules and will include full, half-section, offset, aligned, rib and web, broken, removed and revolved sections. |  |  |
| 17. | All tolerances will noted in accordance with engineering and ANSI standards, including interchangeability, various types, metric tolerances, and designations. |  |  |
| 18. | Locate and identify catalog information such as: threads, fittings, fasteners, o-rings, clips washers, etc. |  |  |

Teacher signature Date