

Appendix B. Coding Scheme

Coding scheme presented during content review team training for operational study.

Measure	Instructions & Response Options
Applicability	<p>For each <u>NAEP FRAMEWORK ELEMENT</u> identified in the course artifacts, please indicate whether the evidence you reviewed indicates that it is a prerequisite for this course, is taught in this course; or is neither a prerequisite nor taught.</p> <p>Knowledge and skills that are <i>prerequisites but are also reviewed</i> in this course should be coded as (1) - KSA is PREREQUISITE for this course.</p> <p><i>Partial evidence</i>--that is, if only part of the framework element applies--should be coded as (1) - KSA is PREREQUISITE for this course. Note: You will then identify the framework elements that DO NOT APPLY in the KSA exclusions column.</p> <p><i>No evidence</i> of the KSA in materials should be coded as (0) - KSA is NOT APPLICABLE to this course.</p> <p>Note: If only part of a framework element applies to new content, please use your best judgment as to whether the included elements are sufficient to warrant identification as new content.</p> <p>0 - KSA is NOT APPLICABLE to this course 1 - KSA is PREREQUISITE for this course 2 - KSA is NEW content taught in this course</p>
Evidence of KSA in Course Artifacts	<p>For each <u>PREREQUISITE KSA</u>, please identify the sources of evidence used for answering the questions above for the course packet. Please select all that apply (Check boxes).</p> <p>1 - Syllabus 2 - Table of Contents 3 - Assignment 4 - Course Text Sample 5 - Exam</p>
KSA Exclusions	<p>Many times, part(s) of a KSA apply to a course while other parts don't apply. For each <u>PREREQUISITE KSA</u> where only part of the KSA statement applies, please identify the element(s) of the KSA statement that are not applicable. You have 500 characters to describe the part(s) of the element that are not applicable to this course.</p>

<p>Importance</p>	<p>For each <u>PREREQUISITE KSA</u>, please select the option that best describes the importance of this KSA for student success in this course. Use the following definitions when selecting your choice:</p> <p>0 - Minimally important. Although a prerequisite, possessing this KSA will make minimal difference to student performance in this course.</p> <p>1 - A little important. This KSA is a prerequisite, and if possessed, the student is likely to learn more and have higher performance in the course.</p> <p>2 - Important. Without this KSA, students will struggle with the course material.</p> <p>3 - Very important. Without this KSA students are not prepared for, and will be <i>unlikely</i> to complete, this course.</p> <p>0 - Minimally important 1 - A little important 2 - Important 3 - Very important</p>
<p>Comparison of Course to BPD (Borderline Performance Descriptor)</p>	<p>For each <u>COURSE PACKET</u>, please select the level of alignment between the PREREQUISITE KSA for this course and the KSA described by the BPD using the following ratings:</p> <p>1 = The BPD is not well aligned with the KSAs that are needed to be prepared for this course because the course requires fewer or less complex/difficult KSA elements than the BPD describes.</p> <p>2 = For the most part, the BPD is a good description of the KSAs that are needed to be prepared for this course.</p> <p>3 = The BPD is not well aligned with the KSAs needed to be prepared for this course because the course requires more complex/difficult KSA elements than the BPD describes.</p> <p>1 - Course requires fewer or less complex/difficult KSA elements than BPD</p> <p>2 - Course KSA elements is well described by the BPD</p> <p>3 - Course requires more complex/difficult KSA elements than BPD</p>
<p>Rigor</p>	<p>For each <u>COURSE PACKET</u> please indicate if, <i>relative to the other courses reviewed for this occupation in this study</i>, the overall challenge level/rigor of the KSAs found in the artifacts from this course packet are:</p> <p>1 = Less than other courses (less difficult)</p> <p>2 = Equal to other courses (typical)</p> <p>3 = More than other courses (more difficult)</p> <p>You will need to come back to these ratings after reviewing all course packets.</p>
<p>Additional KSA not in NAEP framework</p>	<p>To help us identify additional KSAs that may be important to this occupation, <u>for each COURSE PACKET</u>, please identify all mathematics or reading knowledge, skills or abilities that appear to be prerequisite to this course that were not listed in the framework elements provided.</p>
<p>Helpfulness of course artifacts</p>	<p><u>Upon concluding the study</u>, please identify which course documents were most and least helpful in identifying the KSA required by each course?</p>