**DIRECTIONS & EXAMPLE**

**Directions for Associate Program Curriculum Map (Required Element 3.1)  
Courses Aligned with Competencies and Performance Indicators**

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| **Background:** The Associate Program Curriculum Map is used to identify the courses/rotations where the competencies and performance indicators are incorporated in the curriculum through learning activities, assessment (e.g., projects, case studies, presentations, exams) and supervised experiential learning, and covered in textbooks and coursework to prepare students to demonstrate the required competencies. |  |

**Directions:**

1. List courses/rotations in chronological order organized by academic term, including course number and course title.
2. Next, using course/rotation syllabi, textbooks, assignments, projects, assessments, etc., identify performance indicators that are covered in the course/rotation, determine at which level (knows, shows, does) the performance indicator will be covered, and place either an “X” or a “K”, “S” or “D” in the appropriate column and follow the directions below to color code the cell based on that level.
3. All performance indicators must be covered in the curriculum and identified on the curriculum map.
4. For courses where a performance indicator is being covered several times and at various levels of performance, record the highest level to be covered or demonstrated in that course.
5. The level of achievement of a performance indicator must be met in the curriculum at least once at the level specified for that performance indicator as indicated by the color coding in the first column. For example, if a performance indicator is at the “does” level (green color), it must be covered at the “does” level somewhere in the curriculum and be shown on the curriculum map.
6. A performance indicator may be met at a higher level than required by ACEND. For example, a program could cover a performance indicator at the level of “does” even though it is set at a minimum level of required competence of “shows”. (See Example for PI 1.1.3)
7. ACEND performance indicators must be used as worded. If the program decides to develop new program specific performance indicators or change the wording of the ACEND performance indicators, identify it as Program Specific (PS) and number it, starting with 100. For example, a program specific performance indicator for C1.1 will be: PS PI 1.1.100, PS PI 1.1.101, etc. Color code it at the level of expected competence (See Example under C1.4).

**Color Coding Cells Based on Expected level of Performance:** Performance indicators are written such that the verb in each describes an expected level of performance, from knows the information to demonstrates the applied knowledge, skill and judgment (competence) in an artificial or real situation. Therefore, as a guide, in addition to placing an X or letter (K, S, D) in the cell, also color code the cell using this color scheme: **Blue**: **Knows** the required knowledge. **Beige:** **Shows** they can apply the required knowledge, skill and judgment in an artificial or work situation. **Green:** Performs or **Does** the described action in an artificial or work situation.

**Example**

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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | NTR 101  Intro Nutr | NTR 103  Food Safety | NTR 105  Cooking Princ | NTR 110 Wellness | Course | NTR 125  Community | NTR 128  Life Cycle | NTR 148  Home Health | NTR 187  Dis. Patho. | Course | NTR 210  Food & Cult. | NTR 232 Communicat. | NTR 250 Dis. Prevention | NTR 270  Food Exp | NTR 215  Adv. Ntr. | NTR 255 Cult. Competence | NTR 281 Health Coach. | NTR 290 Comm. Exp | NTR 275  Screen. Assess. | NTR 204  Access Health. | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
| **Does** | |
| **C 1.1** | **PI 1.1.1** |  |  |  |  |  |  | K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.2** |  |  |  |  |  |  | K |  |  |  |  |  | K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.3** |  | K |  |  |  |  |  |  |  |  |  |  |  | D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.4** | K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.5** |  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.6** |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 1.2** | **PI 1.2.1** |  |  |  |  |  | K |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.2.2** |  |  |  |  |  |  |  |  | K |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.2.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | K |  |  |  |  |  |  |  |  |  |  |
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| **C 1.3** | **PI 1.3.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.3** |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.4** |  |  |  |  |  |  |  |  |  |  | K |  |  |  |  | K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | D |  |  | D |  |  |  |  |  |  |  |  |  |  |
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| **C 1.4** | **PI 1.4.1** |  |  |  |  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.4.2** |  |  |  |  |  |  |  |  |  |  |  | K |  |  |  |  |  | D |  |  |  |  |  |  |  |  |  |  |  |  |
| **PS PI 1.2.100** |  |  | K |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 1.5** | **PI 1.5.1** |  |  |  |  |  |  |  |  | K |  |  |  |  |  |  |  |  |  |  |  | D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.5.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | K |  |  |  |  |  |  |  |  |  |  |  |  |
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**<Name of your program goes here>**

**Associate Degree Curriculum Map (Required Element 3.1)  
Courses Aligned with Competencies and Performance Indicators**

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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
| **Does** | |
| **C 1.1** | **PI 1.1.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.1.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 1.2** | **PI 1.2.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.2.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.2.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 1.3** | **PI 1.3.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.3.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 1.4** | **PI 1.4.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.4.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 1.5** | **PI 1.5.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 1.5.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | Course | Course | Course | | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
| **Does** | |
| **C 2.1** | **PI 2.1.1** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.1.2** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.1.3** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.1.4** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.1.5** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.1.6** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.1.7** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.1.8** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.1.9** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.1.10** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 2.2** | **PI 2.2.1** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.2** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.3** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.4** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.5** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.6** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.7** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.8** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.2.9** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 2.3** | **PI 2.3.1** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.3.2** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.3.3** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 2.3.4** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.3.5** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.3.6** |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 2.3.7** |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
| **Does** | |
| **C 3.1** | **PI 3.1.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.7** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.9** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.1.10** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 3.2** | **PI 3.2.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.2.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.2.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.2.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.2.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.2.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.2.7** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 3.3** | **PI 3.3.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.3.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.3.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.3.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.3.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
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| **C 3.4** | **PI 3.4.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.4.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.4.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.4.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 3.5** | **PI 3.5.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.7** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.5.8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 3.6** | **PI 3.6.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.6.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.6.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.6.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 3.6.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 4.1** | **PI 4.1.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.1.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.1.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.1.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.1.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.1.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
| **Does** | |
| **C 4.2** | **PI 4.2.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.2.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.2.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.2.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.2.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 4.3** | **PI 4.3.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.3.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 4.3.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 5.1** | **PI 5.1.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 5.1.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 5.1.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 5.1.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PI 5.1.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.1.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.1.7** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.1.8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.1.9** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.1.10** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | **Knows** |  | | | **Semester 1** | | | | |  | **Semester 2** | | | | |  | **Semester 3** | | | | |  | **Semester 4** | | | | |  | **Semester 5** | | | | |  | **Semester 6** | | | | |
| **Shows** | | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course | Course |
| **Does** | |
| **C 5.2** | **Pl 5.2.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.6** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.7** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.2.9** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C 5.3** | **Pl 5.3.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.3.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.3.3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Pl 5.3.4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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