



**PCS Information and Computing Accreditation Board
Computing Accreditation Commission**

**MAPPING OF SEOUL ACCORD GRADUATE
ATTRIBUTES WITH PICAB CRITERIA**

PICAB Document No. 029

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MAPPING OF SEOUL ACCORD GRADUATE ATTRIBUTES WITH PICAB CRITERIA

PICAB Documents ** or ***	SA	Seoul Accord	... for Seoul Accord (Computing Professional) Graduate *	Differentiating Characteristic*
<p><i>Accreditation Policies and Procedures, Item II Government Recognition from the Commission on Higher Education</i> *** Programs to be accredited by PICAB-CAC must provide evidence of Government Recognition from the Commission on Higher Education.</p>	1	Academic Education	Completion of an accredited program of study designed to prepare graduates as computing professionals	Educational depth and breadth
<p><i>Criterion 2. Student Outcomes, item 1</i> ** Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solution.</p>	2	Knowledge for Solving Computing Problems	Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and	Breadth and depth of education and type of knowledge, both theoretical and practical

References:

* Seoul Accord Document Section D – Graduate Attributes - <https://www.seoulaccord.org/document.php?id=79>

**PICAB Document No. 004 – Criteria for Accrediting Computing and Information Technology Education Programs (Mandatory for Reviews starting with the 2020-2021 Accreditation Cycle) - <https://philippinecomputersociety.org/picab-accreditation/>

***PICAB Document No. 005 – Accreditation Policies and Procedures Manual (Starting with the 2019-2020 Accreditation Cycle) - <https://philippinecomputersociety.org/picab-accreditation/>

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			conceptualization of computing models from defined problems and requirements	
<p><i>Criterion 2. Student Outcomes, item 1 **</i></p> <p>Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solution.</p>	3	Problem Analysis	Identify and solve <i>complex</i> computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines	Complexity of analysis

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<p><i>Criterion 2. Student Outcomes, item 2 **</i></p> <p>Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.</p>	4	Design/Development of Solutions	Design and evaluate solutions for <i>complex</i> computing problems, and design and evaluate systems, components, or processes that meet specified needs	Breadth and uniqueness of computing problems, i.e., the extent to which problems are original and to which solutions have previously been identified or codified
<p><i>Criterion 2. Student Outcomes, item 2 **</i></p> <p>Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.</p>	5	Modern Tool Usage	Create, select, or adapt and then apply appropriate techniques, resources, and modern computing tools to <i>complex</i> computing activities, with an understanding of the limitations	Level and appropriateness of the tool to the type of activities performed

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<p><i>Criterion 2. Student Outcomes, item 5 **</i></p> <p>Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline</p>	6	Individual and Team Work	Function effectively as an individual and as a member or leader of a team in multi-disciplinary settings	Role in, and diversity of, the team
<p><i>Criterion 2. Student Outcomes, item 3 **</i></p> <p>Communicate effectively in a variety of professional contexts</p>	7	Communication	Communicate effectively with the computing community about <i>complex</i> computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions	Level of communication according to type of activities performed

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<p><i>Criterion 2. Student Outcomes, item 4**</i></p> <p>Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles</p>	8	Computing Professionalism and Society	Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice	No differentiation in this characteristic except level of practice
<p><i>Criterion 2. Student Outcomes, item 4 **</i></p> <p>Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles</p>	9	Ethics	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice	No differentiation in this characteristic except level of practice

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<p><i>Criterion 2. Student Outcomes, item 4 **</i></p> <p>Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles</p>	<p>10</p>	<p>Life-long Learning</p>	<p>Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional</p>	<p>No differentiation in this characteristic except level of practice</p>

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