



**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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PICAB Documents [Student Outcomes (SO)]	Seoul Accord Graduate Attributes (SAGA)	...for Seoul Accord (Computing Professional Graduate)	Differentiation in level of practice
<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>	<p>SAGA No. 1 Academic Education</p>	<p>Completion of an accredited program of study designed to prepare graduates as computing professionals</p>	<p>Educational depth and breadth</p>
<p>SO No. 1: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solution</p>	<p>SAGA No. 2: Knowledge for Solving Computing Problems</p>	<p>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 conceptualization of computing models from defined problems and requirements</p>	<p>Breadth and depth of education and type of knowledge, both theoretical and practical</p>
	<p>SAGA No. 3: Problem Analysis</p>	<p>Identify and solve <i>complex</i> computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines</p>	<p>Complexity of analysis</p>

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SO No. 2: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline;	SAGA No. 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
	SAGA No. 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
SO No. 3: Communicate effectively in a variety of professional contexts	SAGA No. 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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SO No. 4: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles;	SAGA No 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	
	SAGA No. 9: Ethics	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice	
	SAGA No. 10: Life-long Learning	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional	
SO No. 5: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.	SAGA No. 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