PCS Information and Computing Accreditation Board
Computing Accreditation Commission

MAPPING OF SEOUL ACCORD GRADUATE ATTRIBUTES WITH PICAB CRITERIA

PICAB Document No. 029

MAPPING OF SEOUL ACCORD GRADUATE ATTRIBUTES WITH PICAB CRITERIA

PICAB Documents ** or ***	SA	Seoul Accord	… for Seoul Accord (Computing Professional) Graduate *	Differentiating Characteristic*
*Accreditation Policies and Procedures, Item II Government Recognition from the Commission on Higher Education ***￼* Programs to be accredited by PICAB-CAC must provide evidence of Government Recognition from the Commission on Higher Education.	1	**Academic Education**	Completion of an accredited program of study designed to prepare graduates as computing professionals	Educational depth and breadth
*Criterion 2. Student Outcomes, item 1 ** Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solution.*	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/

PICAB Documents ** or ***	SA	Seoul Accord	… for Seoul Accord (Computing Professional) Graduate *	Differentiating Characteristic*
			conceptualization of computing models from defined problems and requirements	
Criterion 2. Student Outcomes, item 1 ** Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solution.	3	**Problem Analysis**	Identify and solve *complex* computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines	Complexity of analysis

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/

PICAB Documents ** or ***	SA	Seoul Accord	… for Seoul Accord (Computing Professional) Graduate *	Differentiating Characteristic*
Criterion 2. Student Outcomes, item 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.	4	**Design/Development of Solutions**	Design and evaluate solutions for *complex* 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
Criterion 2. Student Outcomes, item 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.	5	**Modern Tool Usage**	Create, select, or adapt and then apply appropriate techniques, resources, and modern computing tools to *complex* computing activities, with an understanding of the limitations	Level and appropriateness of the tool to the type of activities performed

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/

PICAB Documents ** or ***	**SA**	**Seoul Accord**	**… for Seoul Accord (Computing Professional) Graduate ***	**Differentiating Characteristic***
Criterion 2. Student Outcomes, item 3 ** Communicate effectively in a variety of professional contexts	7	**Communication**	Communicate effectively with the computing community about *complex* 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
*Criterion 2. Student Outcomes, item 4*** Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles	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	No differentiation in this characteristic except level of practice

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/

PICAB Documents ** or ***	SA	Seoul Accord	… for Seoul Accord (Computing Professional) Graduate *	Differentiating Characteristic*
			professional computing practice	
Criterion 2. Student Outcomes, item 4 ** Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles	9	**Ethics**	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice	No differentiation in this characteristic except level of practice
Criterion 2. Student Outcomes, item 4 ** Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles	10	**Life-long Learning**	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional	No differentiation in this characteristic except level of practice

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/

PICAB Documents ** or ***	SA	Seoul Accord	… for Seoul Accord (Computing Professional) Graduate *	Differentiating Characteristic*
Criterion 2. Student Outcomes, item 5 ** Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline	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

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/