

APPENDIX 1.1.4

Table 1 – Methodology courses descriptions

Programs	Courses	Descriptions
Preschooler [243]	EDUC 4110 - Children's play as a learning process	The theory of play in relation to the total development and educational process of the young child. The planning of play activities within and outside the classroom giving attention to the cognitive, socioemotional and kinesthetic aspects. Movement patterns characteristic of children for self-discovery. Critical analysis of commercial games emphasizing computerized games. Critical analysis of studies and pertinent scientific research. Emphasis on the role of the adult in children's games. 3 credits
Programs K- 3 [236]	EDUC 3075 – Mathematics curriculum, teaching and assessment in the primary grades (K-3)	Analysis and discussion of the mathematics curriculum with emphasis on the mastery, interpretation and understanding of curricular content in the primary grades. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards for the mathematics program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for teaching mathematics at this level. 2 credits
Programs K- 3 [236]	EDUC 3083 - Social studies curriculum, teaching and assessment in the primary grades (K-3)	Analysis and discussion of the social sciences curriculum with emphasis on the mastery, interpretation and understanding of curricular content in the primary grades. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards for the social studies program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for teaching social studies at this level. 2 credits

Programs	Courses	Descriptions
	EDUC 3185 - English curriculum, teaching and assessment at the elementary level (K-3)	Analysis and discussion of the English curriculum with emphasis on mastery, interpretation and understanding of curricular content in the primary grades. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards of the English Program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for the teaching of English at this level. 2 credits
	EDUC 3235 - Reading and writing in the primary grades	Study and analysis of different stages in the development of reading and writing. Discussion and application of different techniques, methods and strategies for the teaching of reading and writing. Design of an environment that promotes the development and learning of reading and writing skills in the home and at school. Use of the computer in the process of teaching reading and writing. Evaluation and assessment of reading and writing skills. Development of favorable habits and attitudes towards reading and writing. Emphasis on the standards of the Spanish Program of the Puerto Rico Department of Education. 3 credits
	EDUC 3265 - Natural sciences curriculum, teaching and assessment in the primary grades (K-3)	Analysis and discussion of the natural sciences curriculum with emphasis on the mastery, interpretation and understanding of curricular content in the primary grades. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards for the natural sciences program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for teaching natural sciences at this level. 2 credits

Programs	Courses	Descriptions
Programs 4th – 6th [237] Programs 4th – 6th [237]	EDUC 3076 - Mathematics curriculum, teaching and assessment in the primary grades (4-6)	Analysis and discussion of the mathematics curriculum with emphasis on the mastery, interpretation and understanding of curricular content at the elementary level. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards for the mathematics program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for teaching mathematics at this level. 3 credits
	EDUC 3084 - Social studies curriculum, teaching and assessment in the primary grades (4-6)	Analysis and discussion of the social sciences curriculum with emphasis on the mastery, interpretation and understanding of the curricular content at the elementary level. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards for the social studies program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for teaching social studies at this level. 3 credits
	EDUC 3186 - English curriculum, teaching and assessment at the elementary level (4-6)	Analysis and discussion of the English curriculum with emphasis on mastery, interpretation and understanding of curricular content at the elementary level. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards of the English Program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for the teaching of English at this level. 3 credits

Programs	Courses	Descriptions
	EDUC 3232 - Language arts curriculum, teaching and assessment at the elementary level (4-6)	Analysis and discussion of the language arts curriculum with emphasis on mastery, interpretation and understanding of curricular content at the elementary level. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards of the Spanish Program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for the teaching of language arts at this level. 3 credits
	EDUC 3266 - Natural sciences curriculum, teaching and assessment in the primary grades (4-6)	Analysis and discussion of the natural sciences curriculum with emphasis on the mastery, interpretation and understanding of curricular content at the elementary level. Includes needs assessment and the planning, implementation, evaluation and assessment of the teaching learning process considering individual differences. Emphasis on the standards for the natural sciences program of the Puerto Rico Department of Education. Critical analysis of computerized programs appropriate for teaching natural sciences at this level. 3 credits
Elementary English as a second language [206]	EDUC 3187 - English curriculum, teaching and assessment at the elementary level (K-6)	Application of teaching-learning theories and instructional models in the process of planning and developing educational activities. Diagnosis of needs, formulation of objectives, selection of content and planning of teaching units in the teaching of English as a Second Language and elaboration of materials. Application of assessment instruments and techniques in English. The teaching of reading-writing as a cognitive process. 4 credits

Programs	Courses	Descriptions
Secondary English as a second language[147]	EDUC 3188 - English curriculum, teaching and assessment at the secondary level	Application of teaching-learning theories and instructional models in the process of planning and developing educational activities. Diagnosis of needs, formulation of objectives, selection of content and planning of teaching units in the teaching of English as a Second Language and elaboration of materials. Application of assessment instruments and techniques in English. The teaching of reading-writing as a cognitive process. 4 credits
TEACHING HISTORY [144]	EDUC 3565 - Methods and techniques for teaching history	Application of the theories and models of teaching and learning processes in the planning, developing, and assessing of learning. Selection and preparation of materials for teaching history. Emphasis on the diagnosis of needs, formulation of educational goals, and application of technology for teaching the discipline. Prerequisite: EDUC 3013. 3 credits
Special Education [136]	EDUC 3570 - Strategies, methods and techniques for teaching students with disabilities	Analysis of individualized educational programs, teaching strategies, methods and techniques. Includes experience in educational environments where students with different limitations in the varied educational levels are cared. Emphasis on daily planning accompanied by simulations. 3 credits
Teaching of mathematics at the secondary level [128]	EDUC - 3869 instructional theory, methodology and technological resources in the teaching of mathematics at the secondary level	Theories of instruction and their application in planning and developing learning activities in the teaching of mathematics. Preparation of teaching materials using technological resources and stimulating creativity and innovation. Practice in the use of the microcomputer as a teaching resource. Selection and evaluation of commercially produced educational resources. Prerequisite: EDUC 2031. 3 credits