Appendix 1.3 -

Table Relationship of Components of Student Learning Outcomes versus GPIS Objectives, Curriculum, and Learning Assessment

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
I.2.1 The essential character of the field of library and information studies.	**Objective 1.** Demonstrate a high level of knowledge and skills in the management of information.	Information & Knowledge Creation	CINF 6808, 6706, 6708, 6806, 6808, 6809, 6810	3. Discipline Content	• They will define and correctly use the vocabulary related to the organization of information. • Prepare descriptive cataloging of different types of resources; establish the necessary access points; and create the corresponding authority control, in accordance with the Anglo-American Cataloging Rules,	CINF 6708- Fundamentals of the Organization of Information and Knowledge CINF 6806- Organization and recovery of information. • Creation of a Library webpage • Essay: Review of Library Visits

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
					2daed. revised and other standards.	• Development of a Policy and Procedures Manual for Organization of Information
	Objective 2. Design and implement procedures to select, acquire, and organize information resources following the field´s standards.				• Prepare descriptive cataloging of different types of resources; establish the necessary access points; and create the corresponding authority control, in accordance with the Anglo-American Cataloging Rules, 2daed.	CINF 6806-Organization and recovery of information • Creation of a Library webpage • Essay: Review of Library Visits • Development of a Policy and Procedures Manual for

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
					revised and other standards.	Organization of Information
						CINF 6809 Selection and Acquisition of Information Resources
					• Collection Development	• Essay: Analysis of a Collection Development Policy
						• Development of Collection Development Manual
	Objective 3. Demonstrate competencies in the analysis and			5. Critical Thinking	• Demonstrate an ethical and critical perspective as an information	CINF 6707- Information and Knowledge Technologies

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	evaluation of information resources related to their reliability as stated by our field's norms.				professional in the face of the proliferation and use of computer technologies in Puerto Rican society and globally.	•. Special Project: Digital Transformation)
	Objective 4. Design and implement policies and procedures to store, preserve, describe, and access information resources effectively.			1. Information Literacy	• Explain what information and critical thinking skills the information professional must develop in their students or clients.	CINF 6815- Information and Technological Competences •. Evaluation of a Course Syllabus to Integrate Information Literacy • Development of an Integration Plan to integrate Information Literacy to a Course

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 5. Demonstrate understanding of the knowledge creation process, its dissemination, and communication.			5. Critical Thinking	• Explain the importance of knowing the learning processes of human beings and linking them to information services.	CINF 6808- User studies and information needs
	Objective 6. Apply technological competencies and innovative strategies for knowledge and information management.			1. Information Literacy	• Explain what information and critical thinking skills the information professional must develop in their students or clients.	CINF 6815- Information and Technological Competences •. Evaluation of a Course Syllabus to Integrate Information Literacy • Development of an Integration Plan to integrate Information Literacy to a Course

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 7. Perform as information professionals with an understanding of the philosophy, the theoretical, and principles of the field of library and information science.			1. Information Literacy	• Design a Program for the Development of Information and Critical Thinking Skills in an organization.	CINF 6815- Information and Technological Competences
						•. Evaluation of a Course Syllabus to Integrate Information Literacy
						• Development of an Integration Plan to integrate Information Literacy to a Course
	Objective 8. Demonstrate the contributions and relevance of the LIS field in a society in which information technologies are ever-present.			5. Critical Thinking	• Explain the most current trends in describing, representing, and recovering information, within the framework of digital culture.	CINF 6708- Fundamentals of the Organization of Information and Knowledge

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 9. Demonstrate effective communication skills and educational strategies as she strives to provide effective information competencies development in various contexts.	Communication	CINF 6707, 6810, 6816, 6905, 6906, 6907	2. Effective Communication	• Summarize and integrate arguments and positions from different authors and perspectives on Library and Information Sciences through the review and analysis of specialized literature.	CINF 6705- Information, knowledge, and society.
	Objective 10. Apply theories, professional ethics, and the integration of information technologies, as well as reflect on the international trends in the LIS profession.	Theory, application, and Use	CINF 6706, 6707, 6806, 6807, 6810, 6815, 6998	5. Critical Thinking	• Demonstrate an ethical and critical perspective as an information professional in the face of the proliferation and use of computer technologies in Puerto Rican society and globally.	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation in an organization

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 11. Become involved in a broad spectrum of experiences in settings oriented to satisfy the information and knowledge needs of various populations.			6. Social Responsibility	• Identify and explain the factors that influence the development of habits and information needs in different user communities.	CINF 6808-User Studies and information needs .
I.2.2 The philosophy, principles, and ethics of the field.	**Objective 7.** Perform as information professionals with an understanding of the philosophy, the theoretical and principles of the field of library and information science.	Communication	CINF 6705, 6706, 6809, 6807, 6808, 6815	3. Discipline Content	• Identify and explain the different types of reference sources, their use and evaluation. .	CINF 6807-Reference products and services. • Special Project: Integration of a Technology into Reference Service •. Essay: Evaluation of Resources to Promote Reading

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
						• Essay: Evaluation of a Reference Resource
	Objective 10. Apply theories, professional ethics, and the integration of information technologies, as well as reflect on the international trends in the LIS profession.	Theory, Application and Use	CINF 6706, 6707, 6806, 6807, 6810, 6815, 6998	3. Discipline Content	• Train for decision-making on the use of ICTs in solving information problems in libraries and other types of information units.	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 21. Exert leadership in the development of information policies for the State Government as it builds an information society based in equitable access to information through an effective and ethical information management system.			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and discuss the role of the information professional in said context.	CINF 6705-Information, Knowledge, and Society
I.2.3 Appropriate principles of specialization identified in applicable policy statements and documents of	**Objective 2.** Design and implement procedures to select, acquire and organize information resources following	Identification, Selection, Acquisition of Information	6808, 6706, 6708, 6806, 6808, 6809, 6810	3. Discipline Content	• Analysis and organization capacity in the management and recovery of information stored in different media such as files and documentation centers.	CINF 6995 Special Topics in Information Sciences and Technologies.

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
relevant professional organizations.	the field´s standards.					
	Objective 7. Perform as information professionals with an understanding of the philosophy, the theoretical and principles of the field of library and information science.			3. Discipline Content	• Identify and explain the different types of reference sources, their use and evaluation. .	CINF 6807- Reference products and services. •. Special Project: Integration of a Technology into Reference Service •. Essay: Evaluation of Resources to Promote Reading •. Essay: Evaluation of a Reference Resource
	Objective 15. Establish alliances with professional associations, information units, government			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto	CINF 6705- Information, Knowledge, and Society

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	agencies, and the private sector to address information needs and to promote public policies that support free knowledge and information flow in society.				Rican society, and discuss the role of the information professional in said context. .	
	Objective 26. Establish policies and strategies in line with the UPR System with the purpose of guaranteeing its contribution to institutional effectiveness, including strategic planning and continuous assessment.			3. Discipline Content	• Identify and explain the different types of reference sources, their use and evaluation. .	CINF 6807-Reference products and services. • Special Project: Integration of a Technology into Reference Service • Essay: Evaluation of Resources to Promote Reading • Essay: Evaluation of a Reference Resource

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
I.2.4 The importance of research to the advancement of the field's knowledge base.	**Objective 5.** Demonstrate understanding of the knowledge creation process, its dissemination, and communication.	Organization & Dissemination of Information	CINF 6708, 6806, 6807, 6815, 6810, 6905, 6906, 6907	5. Critical Thinking	• Explain the importance of knowing the learning processes of human beings and linking them to information services.	CINF 6808- User studies and information needs
	Objective 16. Conduct research in the field according to the level of expertise developed.			4. Research and Creation	• Explain the elements and conditions that guide the design of studies of a quantitative, qualitative, and mixed nature.	CINF 6706 Research Methodology • Development of a Research Proposal • Literature Review • Essay about Research in Libraries • Presentation of Research Poster

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 17. Demonstrate comprehension of the research process as it contributes to increasing knowledge in the field.	Analysis, Interpretation, Evaluation, Synthesis	CINF 6706, 6708, 6808, 6809, 6810, 6815, 6816, 6905, 6906, 6998	5. Critical Thinking	• Generate a research proposal that reveals the conceptualization and planning of the study to be carried out. .	CINF 6706 Research Methodology • Development of a Research Proposal • Literature Review • Essay about Research in Libraries • Presentation of Research Poster
	Objective 18. Integrate with faculty as they identify and strengthen research avenues, knowledge dissemination, and the development of			4. Research and Creation	• Put into practice and consolidate the knowledge and skills acquired, particularly in the management of research within the framework of a real experience.	CINF 6998-Knowledge Application Seminar

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	new information resources, products, and services as contributions to the LIS field and society.					
	Objective 19. Sponsor and develop research projects that increase knowledge of the LIS field with particular emphases in Puerto Rico, the Caribbean, and the Americas.			4. Research and Creation	• Use the evidence-based information professional practice approach.	CINF 6998-Knowledge Application Seminar
I.2.5 The symbiotic relationship of library and information studies with other fields.	**Objective 13.** Demonstrate comprehension of the knowledge and skills required to cross discipline boundaries to provide services to	Organization & Dissemination of Information Organization	CINF 6708, 6806, 6807, 6815, 6810, 6905, 6906, 6907	1. Discipline Content	• Explain the importance of information and knowledge as strategic resources in contemporary society.	CINF 6705-Information, knowledge, and society.

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	diverse constituencies.	& Description, Store & Retrieval				
	Objective 14. Collaborate with scholars in academic units outside the field of information science to strengthen the interdisciplinary focus of the LIS field and validate its contribution to other fields.					
	Objective 15. Establish alliances with professional associations, information units, government agencies, and the private sector to address information needs and to			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and discuss the role of the information	CINF 6705- Information, Knowledge, and Society

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	promote public policies that support the free knowledge and information flow in society.				professional in said context. .	
I.2.6 The role of library and information services in a diverse global society, including the role of serving the needs of underserved groups.	**Objective 9.** Demonstrate effective communication skills and educational strategies as she strives to provide effective information competencies development in various contexts.	Communication	CINF 6705, 6706, 6809, 6807, 6808, 6815	2. Effective Communication	• Identify and explain the different types of reference sources, their use and evaluation. .	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation .
	Objective 9. Demonstrate effective communication skills and educational			2. Effective Communication	• Identify and explain the different types of reference sources, their use and evaluation.	CINF 6707- Information and Knowledge Technologies

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	strategies as she strives to provide effective information competencies development in various contexts.				.	•. Special Project: Digital Transformation .
	Objective 12. Apply knowledge in the field to provide services and resources to disadvantaged groups in an increasingly diverse society.			3. Effective Communication	• Identify and explain the different types of reference sources, their use and evaluation. .	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation
	Objective 13. Demonstrate comprehension of the knowledge and skills required to cross discipline boundaries to provide services to	Organization & Dissemination of Information Organization	CINF 6708, 6806, 6807, 6815, 6810, 6905, 6906, 6907	1. Discipline Content	• Explain the importance of information and knowledge as strategic resources in contemporary society.	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	diverse constituencies.	& Description, Store & Retrieval				
	Objective 15. Establish alliances with professional associations, information units, government agencies, and the private sector to address information needs and to promote public policies that support free knowledge and information flow in society.			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and discuss the role of the information professional in said context. .	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation
	Objective 18. Integrate with faculty as they identify and strengthen research avenues, knowledge dissemination, and			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and	CINF 6707- Information and Knowledge Technologies

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	the development of new information resources, products, and services as contributions to the LIS field and society.				discuss the role of the information professional in said context. .	•. Special Project: Digital Transformation
	Objective 20. Offer continuous education experience as well as certificate programs to satisfy the needs of the public and private sectors. Offer consulting services in the LIS field in Puerto Rico, the Caribbean, and the Americas.					
	Objective 28. Generate additional fiscal resources					

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	with the development of new information services and products.					
	Objective 29. Broaden the physical installations and the number of faculty and staff to better serve more students and the general society.					
I.2.7 The role of library and information services in a rapidly changing technological society.	**Objective 6.** Apply technological competencies and innovative strategies for knowledge and information management.	Technologies and Working Tools	CINF 6707, 6806, 6807, 6809, 6810, 6815, 6816, 6998		• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and discuss the role of the information	CINF 6707 Information and Knowledge Technologies • Special Project: Digital Transformation in an organization

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
					professional in said context.	
	Objective 8. Demonstrate the contributions and relevance of the LIS field in a society in which information technologies are ever-present.	Applied Technologies and Working Tools	CINF 6707, 6806, 6807, 6809, 6810, 6815,	4. Critical Thinking	• Explain the most current trends in describing, representing, and recovering information, within the framework of digital culture.	CINF 6708- Fundamentals of the Organization of Information and Knowledge
	Objective 15. Establish alliances with professional associations, information units, government agencies, and the private sector to			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and discuss the role of the	CINF 6707- Information and Knowledge Technologies •. Special Project: Digital Transformation

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	address information needs and to promote public policies that support free knowledge and information flow in society				information professional in said context. .	
	Objective 20. Offer continuous education experience as well as certificate programs to satisfy the needs of the public and private sectors. Offer consulting services in the LIS field in Puerto Rico, the Caribbean, and the Americas.					
	Objective 24. Provide an innovative	Technological components,	CINF 6816, 6998			

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	administrative and technological infrastructure that creatively promotes the Program`s development and effective performance by its faculty, staff, and students.	Information Products				
	Objective 27. Provide appropriate information and technological resources as well as office and physical spaces required to support faculty, staff, and students in the fulfillment of their academic and administrative responsibilities.					

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 28. Generate additional fiscal resources with the development of new information services and products.					
I.2.8 The needs of the constituencies that the program seeks to serve	**Objective 11.** Become involved in a broad spectrum of experiences in settings oriented to satisfy the information and knowledge needs of various populations.	Communication	CINF 6707, 6810, 6816, 6905, 6906, 6907	6. Social Responsibility	• Identify and explain the factors that influence the development of habits and information needs in different user communities.	CINF 6808-User Studies and information needs.
	Objective 13. Demonstrate comprehension of the knowledge and skills required to cross discipline	Organization & Dissemination of	CINF 6708, 6806, 6807, 6815, 6810, 6905, 6906, 6907	1. Discipline Content	• Explain the importance of information and knowledge as strategic resources in contemporary society	CINF 6705-Information, knowledge, and society.

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	boundaries to provide services to diverse constituencies.	Information Organization & Description, Store & Retrieval				
	Objective 15. Establish alliances with professional associations, information units, government agencies, and the private sector to address information needs and to promote public policies that support free knowledge and information flow in society.			6. Social Responsibility	• Analyze the factors that promote or limit the flow of information and knowledge, particularly in Puerto Rican society, and discuss the role of the information professional in said context. .	CINF 6705-Information, Knowledge, and Society
	Objective 20. Offer continuous education experience as well as certificate					

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	programs to satisfy the needs of the public and private sectors. Offer consulting services in the LIS field in Puerto Rico, the Caribbean, and the Americas.					
	Objective 22. Design and offer online courses and programs with the purpose of expanding access and opportunities to those populations interested in library and information science that cannot take advantage of the program on campus.					

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	Objective 23. Integrate students' participation in all aspects of the program, including assessment.					
	Objective 25. Assure sufficient financial resources to support the Program's effective development.					
	Objective 26. Establish policies and strategies in line with the UPR System with the purpose of guaranteeing its contribution to institutional effectiveness, including strategic					

Standard 1.2 Essential Elements Student Learning Outcomes	GPIS Objective	Curriculum Elements	Curriculum Elements Courses	UPRRP Assessment Domains	Learning Objectives	Courses where Assessment is Measured
	planning and continuous assessment.					
	Objective 27. Provide appropriate information and technological resources as well as office and physical spaces required to support faculty, staff, and students in the fulfillment of their academic and administrative responsibilities.					
	Objective 28. Generate additional fiscal resources with the development of new information services and products.					