

School of Health Professions Medical Laboratory Sciences Interprofessional Education Plan Academic Year 2023-2024

Background

UT Health San Antonio's Strategic Plan for fiscal years 2023-2027 continues to emphasize Teamwork & Collaboration as a core value. The Quality Enhancement Plan (QEP), Linking Interprofessional Networks for Collaboration (LINC), is an institution-wide effort to advance our Strategic Plan by enhancing interprofessional education (IPE) at UT Health San Antonio. Key measures of success include increasing student knowledge and skills related to IPE, demonstrating schools' and programs' adoption of IPE as a strategic priority through increased activities integrated into programs' curricula and increasing opportunities for student IPE experiences across the institution. To contribute to the coordinated implementation of the QEP and to demonstrate compliance with program-specific IPE accreditation standards, the Associate Dean for Academic and Student Affairs within the School of Health Profession (SHP) and the Chair of the SHP IPE Committee are leading the development and implementation of program-specific IPE plans through the contributions and efforts of SHP IPE Committee members and program leaders within each SHP department.

Profession-Specific Accreditation Mandate

The National Accrediting Agency for Clinical Laboratory Sciences Programs suggests the integration of IPE into the Medical Laboratory Science curriculum, as evidenced by the following standards/expectations:

National Accrediting Agency for Clinical Laboratory Sciences Programs: <u>http://www.naacls.org/</u>

- See Program Directors page for accreditation resources: <u>http://www.naacls.org/Program-Directors.aspx</u>
 - <u>2012 standards</u> (updated 11/2020). "NAACLS Standards for Accredited and Approved programs." Adopted 2012, Revised through 11/2020. Includes MLS, DCLS, and other programs under NAACLS.
 - "Principles of interpersonal and interdisciplinary communication and team-building skills" mentioned throughout, including pp 57, 61, 73, 80 of pdf document. These pages are specific to programs other than MLS or DCLS.

Medical Laboratory Science IPE PLAN

In accordance with HPAC recommendations, this IPE plan consists of four components: rationale, outcomebased goals, deliberate design, and assessment & evaluation. Details for each component are included below:

Rationale

Medical Laboratory Sciences (MLS) is known as the "hidden profession" and does not interact directly with patients. However, medical laboratory scientists are responsible for resulting out diagnostic tests of which physicians base over 70% of their clinical decisions. Alignment with campus partners through the University's QEP provides a framework by which the MLS can interact with other healthcare professions, including clinicians, physicians, nurse practitioners, physical and occupational therapists, speech-language pathologists, and respiratory therapists who treat patients. These patients often have comorbidities diagnosed by lab results which were produced by medical laboratory scientists. Interprofessional education allows all professionals to learn from each other and it reduces professional hierarchy while helping to promote equality and respect. MLS

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helping other medical health professionals to understand the processes involved once a laboratory requisition has been initiated. The laboratory role begins with the preanalytical component (everything involving correct specimen collection), through the analytical component (actual testing of the specimen) ending with the postanalytical component of reporting a result. This aids in explaining and clarifying the role, expertise and responsibilities that each profession contributes to the total care of the patient. Through these IPE activities we not only enhance the student's education but address and correct the inefficiencies and ineffectiveness of a disjointed healthcare team that does not communicate, and which can negatively impact the health of the patient. Through various IPE activities our profession strives to improve both the laboratory testing process and patient safety.

Outcome-based Goals Table 1. Division of Medical Laboratory Sciences IPE Plan – Goals Identified through Crosswalk of Interprofessional Practice-Relevant Competency Frameworks

Expected Behavior for	Domains of Competence	IPEC sub-competencies	Division of MLS sub-
MLS Student			competency
1. Demonstrates the ability	Communicate in a responsive,	C2: Use communication tools, techniques, and	Communicate opinions based on unique
to communicate effectively	responsible, respectful, and		expertise with confidence, clarity and
with healthcare	compassionate manner with	and health outcomes.	respect to the healthcare team providing
professionals as individuals	team members.		patient care, including constructive
and in teams		C5 : Practice active listening that encourages ideas and	
		opinions of other team members.	patient care and outcomes.
collaboratively to accomplish tasks efficiently within the medica	Apply values and principles of team science to adapt one's own role in a variety of team settings	experience, expertise, and culture towards improving communication and managing conflicts. TT2: Appreciate team members' diverse experiences, expertise, cultures, positions, power, and roles	Demonstrate a genuine appreciation for the diverse cultural backgrounds and perspectives of team members, recognizing the value of cultural diversity in enriching problem-solving, decision-making, and creativity within the team.
profession.		TT5 : Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives.	

Deliberate Design

Table 2. IPE Activities within the B.S. & M.S. Medical Laboratory Sciences IPE Plan

Program Year & Semester	Name of IPE Activity (Type of IPE Activity)	Learners from Other Programs Involved (Abbreviation & Year)	Associated Course/Place in Curriculum (If Applicable)	Faculty Leader(s) from Program	Faculty Leader(s) from Other Programs	Timeframe to be Completed (Month)
Year 1 Fall	LINC Common IPE Experience (IPE Type: Curricular IPE Sub-type: Classroom- Collaborative Online Learning)	Learners from all programs at UT Health San Antonio are placed in interprofessional groups of 3-4 and group composition varies as a result.	Program Requirement		LINC Didactic IPE Initiative Members: Meredith Quinene (SHP-PA), Bobby Belarmino (SHP-PT), Noorpreet Kaur (SOD), Daniel Saenz (GSBS), Sadie Trammell Velásquez (LSOM) and Cynthia L. Wall (SON), with support from the LINC Faculty Council Members: Moshtagh Farokhi (SOD), Rekha Kar (GSBS), Temple Ratcliffe (LSOM), Kathleen Stevens (SON), and Joseph Zorek (LINC Executive Director)	Fall (Sept to Oct)
Year 1 Spring	LINC Simulation IPE Experience (IPE Type: Curricular IPE Sub-type: Blended – Classroom- Collaborative Online Learning & Simulation)	Learners from all programs at UT Health San Antonio are placed in interprofessional groups of 3-4, and group composition varies as a result.	Program Requirement		LINC Simulation IPE Initiative Members: Sadie Trammell Velasquez (LSOM), James Cleveland (SON), Diane Ferguson (LSOM), Rebecca Moote (LSOM), David Ojeda Diaz (SOD), Kathryn Parke (SON), and Bridgett Piernik-Yoder (SHP-OT) with support from the LINC Faculty Council Members: Moshtagh Farokhi (SOD), Rekha Kar (GSBS), Meredith Quinene (SHP), Temple Ratcliffe (LSOM), Kathleen Stevens (SON), and Joseph Zorek (LINC Executive Director)	Spring (Jan to Mar)
Year 2 Fall	A Patient-Centered Approach for Reducing Preanalytical Errors Between Medical Laboratory Sciences and Medical Students (IPE Type: Curricular IPE Sub-type: Classroom)	MLS Year 2 MD Year 1	MLSC 6002	Cordelia Kudika Terri Murphy- Sanchez	· · · · ·	Fall (Nov)
Year 2 Fall	Student Grand Rounds (IPE Type: Co-Curricular IPE Sub-type: Classroom)	MLS Year 2		Terri Murphy- Sanchez		Fall (Nov)
Year 2 Spring	Student Grand Rounds (IPE Type: Co-Curricular IPE Sub-type: Classroom)	MLS Year 2		Terri Murphy- Sanchez		Spring (Apr)
Year 2 Spring	Professional Issues in	MLS Year 2 OT Year 2	MLSC 4006/6008	George Kudolo	Ricky Joseph (SHP-OT)	Spring (Mar)

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	Healthcare	PT Year 1	OCCT 7019	Michael Geelhoed (SHP-PT)
	(IPE Type: Curricular		PHYT 8122	
	IPE Sub-type:			
	Classroom)			
Year 2 Spring	LINC Clinical IPE Experience	Learners from all	Program Requirement	LINC Clinical IPE Initiative Members: TempleSpring (Jan to Mar)
	(IPE Type: Curricular	programs at UT Health		Ratcliffe (LSOM), Angela Kennedy (SHP),
	IPE Sub-type: Blended –	San Antonio will be		Rebecca Moote (LSOM), Elena Riccio Leach
	Classroom-Collaborative	placed in		(SOD) and Marta Vives (SON) with support
	Online Learning &	interprofessional groups		from the LINC Faculty Council Members:
	Clinical)	of 3-4 and group		Moshtagh Farokhi (SOD), Rekha Kar (GSBS),
		composition will vary as		Meredith Quinene (SHP), Kathleen Stevens
		a result.		(SON), and Joseph Zorek (LINC Executive
				Director)

DEFINITIONS

Interprofessional Education (IPE) = Proposed by the World Health Organization and endorsed by IPEC, takes place "when students from two or more professions learn about, from, and with each other to enable effective collaboration and improve health outcomes" (WHO, 2010; IPEC, 2016). This emphasis on students aligns well with UT Health San Antonio's QEP, and the expectation is that student-to-student interprofessional learning will constitute the majority of IPE activities on campus. This table is reserved for student-to-student IPE activities.

IPE Partners = Students from other professions/programs involved including their year(s) of study

IPE Types = Curricular: IPE activities within formal curricula (e.g., credit-bearing courses, clerkships); Co-Curricular: IPE activities outside formal curricula (i.e., volunteer experiences that augment learning/professional development).

IPE Sub-types = *Classroom:* IPE activities in a classroom setting, including in-person and online; *Simulation:* IPE activities in a simulation setting, including in-person and online; *Clinical:* IPE activities in a clinical setting allowing for practical experiences involving direct patient care; *Community:* IPE activities in a community-based setting allowing for practical experiences that do not involve direct patient care; *Blended:* Any combination of IPE Sub-types.

FOOTNOTE

See Assessment & Evaluation section for more details on how learning outcomes from this IPE Plan are measured.

Table 3. IPE Activities Currently Under Development with Implementation Planned for Academic Year 2024-2025.

Program Year & Semester	IPE Activity (Type of	Learners from Other Programs Involved (Abbreviation & Year)	Associated Course/Place in Curriculum (If Applicable)	Faculty Leader(s) from Program	Faculty Leader(s) from Other Programs	Timeframe to be Completed (Month)
Year 1 and 2; Spring Semester		RC, PT, OT, SLP, EHS, PA		Terri Murphy-Sanchez	TBD	TBD

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Assessment and Evaluation

The LINC Core IPE Measurement Plan at UT Health San Antonio forms the backbone of IPE assessment/evaluation for all UT Health San Antonio program-specific IPE plans. Valid and reliable tools to measure change in reactions, attitudes/perceptions, skills, and behaviors are included. Table 4 and Figure 1 below provide additional information on tools and administration schedules for the LINC Core IPE Measurement Plan.

Table 4. Tools and Targeted Learning	Outcomes of the LINC Core IPE Measurement Plan
Table 4. Tools and Targeted Learning	

Level*	Measurement Tool ^{**}	Constructs	Items		
Level 1 Reaction	Interprofessional Reactions Tool (IPRT)	PreparationRelevanceImportanceSatisfaction	 13 self-reported items: 9 quantitative items using a 5-point Likert-type response scale; and, 4 qualitative items soliciting written responses to openended prompts 		
Level 2a Attitudes/ Perceptions	Student Perceptions of Interprofessional Clinical Education– Revised, Version 2 (SPICE-R2)	 Interprofessional Teamwork and Team-based Practice Roles & Responsibilities for Collaborative Practice Patient Outcomes from Collaborative Practice 	10 self-reported, quantitative items using a 5-point Likert-type response scale		
Level 2b Skills Level 3 Behaviors	Interprofessional Education Collaborative Competency Self- Assessment Tool, Version 3 (IPEC-3)	 Interprofessional Interactions Interprofessional Values 	16 self-reported, quantitative items using a 5-point Likert-type response scale		
	Interprofessional Collaborative Competency Attainment Scale– Revised (ICCAS-R)	 Communication Collaboration Roles & Responsibilities Collaborative patient-family centered approach Conflict management/ resolution Team functioning 	21 self-reported, quantitative items using a 5-point Likert-type response scale		
* Modified Kirkpatrick levels 2b (skills) and 3 (behaviors) are combined in this table because IPEC-3 and ICCAS-R report to measure both levels ** See Appendices I-IV for complete versions of selected measurement tools					

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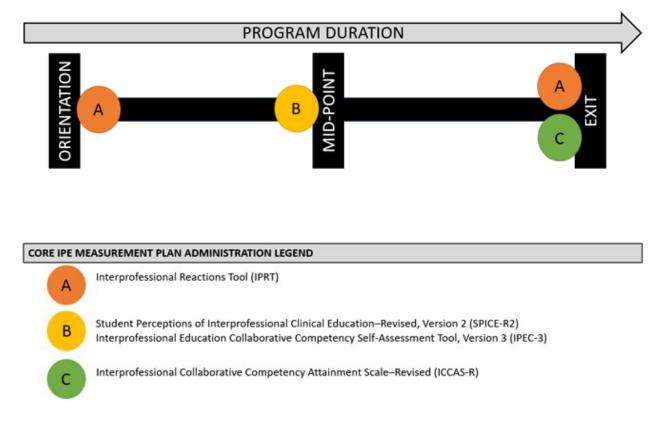


Figure 1. Administration Schedule of the LINC Core IPE Measurement Plan

LINC Core IPE Measure A1 (pre) is administered in August, LINC Core IPE Measure B is administered in September, and LINC Core IPE Measure A2 (post) & C are administered in April.

The MLS IPE Plan was initially approved by the SHP IPE Committee and SHP Curriculum Committee on November 12, 2020.

The initial MLS IPE Plan was then updated and approved by the MLS Division within the Department of Health Sciences on October 12, 2023.

The approved AY2023-2024 MLS IPE Plan was submitted to LINC on October 12, 2023.