

School of Dentistry Dental Hygiene Program 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 School of Dentistry's (SOD) Associate Dean for Academic, Faculty and Student Affairs led the development and implementation of the Dental Hygiene (DH) IPE Plan with contributions from an IPE Task Force made up of members drawn from SOD.

Profession-Specific Accreditation Mandate

The Commission on Dental Accreditation requires the integration of IPE into the Dental Hygiene program curricula, as evidenced by the following standards/expectations:

DENTAL HYGIENE PROGRAM

There is one standard that addresses IPE.

CODA Standard 2-15, on patient care competencies, states that graduates must be competent in communicating and collaborating with other members of the health care team to support comprehensive patient care. The intent of the standard states that student must have the ability to communicate verbally and in written form is basic to the safe and effective provision of oral health services for diverse populations. Dental Hygienists should recognize the cultural influences impacting the delivery of health services to individuals and communities (i.e. health status, health services and health beliefs). Students should understand the roles of members of the health-care team and have educational experiences that involve working with other health-care professional students and practitioners.

School of Dentistry Dental Hygiene IPE Plan

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

Rationale:

In an era of accountability our healthcare system and the public are demanding efficiencies for cost-effectiveness, quality improvement and coordinated care. To meet these demands interprofessional collaborations are a must. Therefore, The University's vision is to "transform health and healthcare for a diverse society" by identifying a teamwork and collaboration plan that meets its core values. The institution's Quality Enhancement Plan (QEP), Linking Interprofessional Networks for Collaboration

(LINC), seeks to increase faculty, staff, and student knowledge and skills related to IPE, demonstrate schools' and programs' adoption of IPE as a strategic priority through increased activities integrated into programs' curricula, and increase opportunities for student IPE experiences across the institution.

Justification for formalizing the DH program's approach through this IPE Plan is drawn from the Commission on Dental Accreditation requirement to integrate IPE into the our curriculum, as evidenced by standards and expectations that mandate graduates are "competent in communication and collaborating with other members of the healthcare team to support comprehensive care." As such, our approach relies on evidence from the Institute of Medicine that examines the need to measure the impact of IPE on collaborative practice and health system outcomes. Moreover, evidence suggests that a shared team identity helps to solve problems and improve delivery of care. 3

The IPEC core competency framework aligns with CODA Standard 2-15. The first competency domain is values/ethics for interprofessional practice, where individuals of other professions maintain a climate of mutual respect and shared values. Next, is the roles/responsibilities domain where the use of knowledge of one's own role and those of other professions to appropriately assess and address the health care needs of patients and to promote and advance the health of populations. This is followed by interprofessional communication, where students learn to communicate with patients, families, communities, and professionals in health and other fields in a responsive and responsible manner that supports a team approach to the promotion and maintenance of health and the prevention and treatment of disease. The final competency domain is teams and teamwork. This element applies relationship-building values and the principles of team dynamics to perform effectively in different team roles to plan, deliver, and evaluate patient/population-centered care and population health programs and policies that are safe, timely, efficient, effective, and equitable.

Evidence to comply with CODA Dental Hygiene standard 2-15 are supported by use of reliable and validated IPE outcome tools found in the Kirkpatrick Learning Outcomes listed in the IOM Interprofessional Learning Continuum Model – Reactions, Attitudes/Perceptions, Knowledge/Skills, Collaborative Behavior, and Performance in Practice.

Our collective interpretation of the IPE standards has led us to an agreed strategy where opportunities for IPE within the University were explored. The list below captures didactic, clinical, and co-curricular IPE activities where a unified effort has the potential to meet the mission and vision of the University and the DH program.

Dental Hygiene Rationale References:

- 1) UT Health San Antonio: Strategic Plan Fiscal Year 2018-2022, page 2. obtained from: https://issuu.com/hscsa communications/docs/strategicplan 2018-22 final-filpboo
- 2) Commission on Dental Accreditation, Dental Hygiene Program: Standard 2-15. Patient Care Competencies. Page 28. Obtained from https://www.ada.org/~/media/CODA/Files/2020_dental_hygiene_standards.pdf
- 3) Measuring the Impact of Interprofessional Education on Collaborative Practice and Patient Outcomes Committee on Measuring the Impact of Interprofessional Education on Collaborative Practice and Patient Outcomes; Board on Global Health; Institute of Medicine. Washington (DC): National Academies Press (US); 2015 Dec 15. https://www.ncbi.nlm.nih.gov/books/NBK338360/

Outcome-based Goals:

As an institution, we have chosen IPEC as our shared framework, and the most relevant IPE sub-competencies serve as the overarching outcome-based goals of the Dental Hygiene program. The IPEC sub-competencies selected are in alignment with the University's and SOD's vision for IPE and serve as tangible goals to design our approach. The IPEC sub-competencies for the dental hygiene program are listed in the table below. The constructs of learner outcomes are based on the Kirkpatrick Learning Outcomes listed in the IOM Interprofessional Learning Continuum Model – Reactions, Attitudes/Perceptions, Knowledge/Skills, Collaborative Behavior and Performance in Practice.

Table 1. Dental Hygiene Program IPE Plan – Goals Identified through Crosswalk of Interprofessional Practice-Relevant Competency Frameworks

	T	
IPE Experience/	IPEC Domains	IPEC Sub-Competencies Targeted
Program Objectives		
Health Literacy OSCE	Communication	C3. Communicate clearly with
		authenticity and cultural humility,
Improving the experience of	Teams and Teamwork	avoiding discipline-specific
health care and integrating		terminology.
oral to overall health		
		C4. Promote common
Addressing cultural humility		understanding of shared goals.
and social determinants of		
health as an interprofessional		C6. Use constructive feedback to
collaborative addressing		connect, align, and accomplish team
population health outcome		goals.
with emphasis on inclusion		
and equity training		TT6. Reflect on self and team
		performance to inform and improve
		team effectiveness.
LINC Common IPE	Teams and Teamwork	C5. Practice active listening that
Experience		encourages ideas and opinions of
	Communication	other team members.
Demonstrate communication		
skills and collaboration with		C7. Examine one's position, power,
other members of the health		hierarchical role, unique experience,
care team to facilitate the		expertise, and culture towards
provision of health care.		improving communication and
provision of meanineare.		managing conflicts.
		managing commets.
		TT1. Describe evidence-informed
		processes of team development and
		practices.
		p. 400.000.
		TT3. Practice team reasoning,
		problem-solving, and decision-
		making.
		TT6. Reflect on self and team
	1	

Teams and Teamwork C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes.			performance to inform and improve team effectiveness.
Apply interprofessional subcompetencies of interprofessional communication and teamwork in a university simulation Practice communicating with a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT2. Appreciate team members' diverse experience, expertise, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RT3. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR7. Incorporate complementary expertise to meet health needs including the determinants of health. Roles and Responsibilities C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing communication and managi		Teams and Teamwork	-
subcompetencies of interprofessional communication and teamwork in a university simulation Practice communicating with a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity T12. Appreciate team members' diverse expertise, cultures, positions, power, and roles towards improving towards improving team function. T13. Practice team reasoning, problem-solving, and decision-making. T15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C3. Communicate clearly with authenticity and culture humility, avoiding discipline-specific terminology. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing communication and culture towards managing communication and culture towards and culture towards and culture towards and culture towards and culture tow	Experience	Communication	-
interprofessional communication and teamwork in a university simulation Practice communicating with astandardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity T12. Appreciate team members' diverse experience, expertise, cultures, positions, power, and roles towards improving towards improving towards improving towards improving tomunication and managing conflicts. T13. Practice team members' diverse experiences, expertise, cultures, positions, power, and roles towards improving team function. T13. Practice team reasoning, problem-solving, and decision- making. T15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements	Apply interprofessional		
communication and teamwork in a university simulation Practice communicating with a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity T12. Appreciate team members' diverse experiences, expertise, cultures, positions, power, and roles towards improving team function. T13. Practice team reasoning, problem-solving, and decision-making. T15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. R15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. R15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. R15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. R15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. R16. Communication T27. Appreciate team members' diverse experience, expertise, cand culture towards improving towards improving communication on the proving problem-solving, and decision-making. T15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. R28. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C3. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing conflicts.	· ·		
teamwork in a university simulation Practice communicating with a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT3. Appreciate team members' diverse expertise, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Team and graphic cannot contributed to the adverse patient event in the graphic case C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing communication and manag			· ·
simulation Practice communicating with a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity T12. Appreciate team members' diverse expertise, cultures, positions, power, and roles towards improving team function. T13. Practice team reasoning, problem-solving, and decision-making. T15. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Team and adventice dinical learning environment during individual clinical placements T2. Examine one's position, power, role, unique expertise, and culture towards improving communication and managing communication and culture towards improving communication and managing communication and culture towards improving communication and managing communication and managing communication and managing communication and culture towards improving communication and culture towards improving communication and managing communication and culture towar			
a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT2. Appreciate team members' diverse expertise, and culture towards improving communication and managing conflicts. TT2. Appreciate team members' diverse experience, expertise, and culture towards improving communication and managing conflicts. TT3. Appreciate team members' diverse experience, expertise, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements	•		
a standardized patient caregiver in a difficult situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT2. Appreciate team members' diverse expertise, and culture towards improving communication and managing conflicts. TT2. Appreciate team members' diverse experience, expertise, and culture towards improving communication and managing conflicts. TT3. Appreciate team members' diverse experience, expertise, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements	Practice communicating with		C7 . Examine one's position, power,
situation, crucial conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT2. Appreciate team members' diverse expertinces, expertince, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Communication Team and Teamwork Roles and Responsibilities C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	a standardized patient		
conversation, or conflict Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT3. Appreciate team members' diverse expertinces, expertise, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Communication Team and Teamwork Roles and Responsibilities C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	_		
Develop and validate an observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT3. Appreciate team members' diverse expertisee, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements			
observational assessment tool measuring knowledge and skill acquisition in an IPE simulation activity TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical lolacements diverse experiences, expertise, cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	·		
tool measuring knowledge and skill acquisition in an IPE simulation activity TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical lolacements Cultures, positions, power, and roles towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying comflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	The state of the s		· · · · · · · · · · · ·
towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements towards improving team function. TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			•
TT3. Practice team reasoning, problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			1 -
problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements problem-solving, and decision-making. TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	simulation activity		
LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements TT5. Apply interprofessional conflict management methods, including identifying conflict cause and addressing divergent perspectives. RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			
LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Communication Communication RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			
LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Communication Communication RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			TTE Apply interprefessional conflict
LINC Clinical IPE Experience List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Communication Communication RR3. Incorporate complementary expertise to meet health needs including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			
List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Communication Team and Teamwork Including the determinants of health. C2. Use communication tools, techniques, and technologies to enhance team function, wellbeing, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			_
List the different factors that contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Team and Teamwork Roles and Responsibilities C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			
List the different factors that contributed to the adverse patient event in the graphic case Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Team and Teamwork Roles and Responsibilities Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Corganize the factors into different categories using principles of systems thinking (e.g., fishbone diagram)	LINC Clinical IPE Experience	Communication	
contributed to the adverse patient event in the graphic case Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements Roles and Responsibilities C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	List the different factors that	Team and Teamwork	
Patient event in the graphic case C2. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C3. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C6. Use communication tools, techniques, and technologies to enhance team function, well-being, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing		ream and reamwork	
Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements C2. Ose communication tools, techniques, and technologies to enhance team function, wellbeing, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	patient event in the graphic	Roles and Responsibilities	
Organize the factors into different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements enhance team function, wellbeing, and health outcomes. C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	case		
different categories using principles of systems thinking (e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	Organize the factors into		
(e.g., fishbone diagram) Analyze an authentic clinical learning environment during individual clinical placements C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing	_		•
Analyze an authentic clinical learning environment during individual clinical placements C7. Examine one's position, power, role, unique experience, expertise, and culture towards improving communication and managing			series, and nearth outcomes.
learning environment during individual clinical placements and culture towards improving communication and managing	(e.g., fishbone diagram)		C7 . Examine one's position, power,
learning environment during individual clinical placements and culture towards improving communication and managing	Analyze an authentic clinical		
iliulviuudi ciiilicai piaceilleilis i	learning environment during		
conflicts.	individual clinical placements		

TT6. Reflect on self and team performance to inform and improve team effectiveness.
TT10. Discuss organizational structures, policies, practices, resources, access to information, and timing issues that impact the effectiveness of the team.

Deliberate Design

Table 2. IPE Activities within the Dental Hygiene Program IPE Plan

Program Year &	Name of	Learners from Other	Associated Course/Place	Faculty Leader(s) from	Faculty Leader(s) from Other	Timeframe to be
Semester 2022-2023	IPE Activity (Type of IPE Activity)	Programs Involved (Abbreviation & Year)	in Curriculum (If Applicable)	Program	Programs	Completed (Month)
Year 1 Fall	LINC Common IPE Experience (IPE Type: Curricular IPE Sub-type: Classroom- Collaborative Online Learning)		Didactic INTD 5031	Noorpreet Kaur	LINC Didactic IPE Initiative Members: Meredith Quinene (SHP-PA), Bobby Belarmino (SHP-PT), Daniel Saenz (GSBS), Sadie Trammell Velasquez (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	David Ojeda	LINC Simulation IPE Initiative Members: Sadie Trammell Velasquez (LSOM), James Cleveland (SON), Diane Ferguson (LSOM), Rebecca Moote (LSOM), Bridgett Piernik- Yoder (SHP), and Kathryn Parke (SON) 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 1 Spring	Ergonomics and Musculoskeletal Disorder Interprofessional Education (IPE Type: Curricular IPE Sub-type: Blended – Classroom, Clinical & Simulation)	SHP-OT Year 2	DIPC 5001 DENH 3006	Juanita Lozano-Pineda Rebekah Sculley	Michael Geelhoed (SHP-PT) Ricky Joseph (SHP-OT)	Spring
Year 2 Spring	LINC Clinical IPE Experience (IPE Type: Curricular	Learners from all programs at UT Health San Antonio will be placed in	Program Requirement	Elena Riccio Leach	LINC Clinical IPE Initiative Members: Temple Ratcliffe (LSOM) Rebecca Moote (LSOM), and Marta Vives (SON) with support from the LINC	Spring (Jan to Mar)

	IPE Sub-type: Blended –	interprofessional groups			Faculty Council Members: Moshtagh	
	Classroom-Collaborative	of 3-4 and group			Farokhi (SOD), Rekha Kar (GSBS),	
	Online Learning & Clinical)	composition will vary as			Meredith Quinene (SHP), Kathleen	
		a result.			Stevens (SON), and Joseph Zorek	
					(LINC Executive Director)	
Year 2 Spring	An Interprofessional	DH2, SON,	DENH 4111	Rebekah Sculley	Melanie Stone (Center for Ethics and	Spring (Mar)
	Objective Structured			Carol Nguyen	Humanities)	
	Clinical Exam (iOSCE) for				Adelita Cantu, SON	
	<u>Health Literacy</u> (IPE Type:				Oralia Bazaldua (PharmD)	
	Co-Curricular IPE					
	IPE Sub-type: Blended –					
	Classroom & Simulation)					

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

<u>IPE Types</u> = *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).

<u>IPE Sub-types</u> = 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	Name of IPE Activity (Type of IPE Activity)	Learners from Other Programs Involved (Abbreviation & Year)	Associated Course/Place in Curriculum	Faculty Leader(s) from Program	Faculty Leader(s) from Other Programs	Timeframe to be Completed (Month)
			(If Applicable)			
			INTD TBD SHCN, SoD ROTATION			Fall 2024 Spring 2025

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

<u>IPE Types</u> = 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).

<u>IPE Sub-types</u> = Classroom: IPE activities in a classroom setting, including in-person and online; Clinical: 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.

Assessment and Evaluation

Experts in assessment, evaluation, and compliance are led by the Associate Dean for Academic, Faculty and Student Affairs and academic leaders of the SOD. The SOD IPE Task force was formed to support achievement of QEP goals through measurement of IPE learning outcomes. The production of valid and reliable IPE outcomes data is essential to not only understand the impact of interprofessional learning, but also to support faculty efforts to refine and strengthen approaches to IPE instruction and the IPE learning environments they create. It is for this reason that IPE Assessment and Evaluation was identified as a vitally important component of IPE plans recommended by HPAC and the National Center. Furthermore, robust data are also required for QEP/LINC reporting to SACSCOC and for program-level reporting to national accrediting bodies. Importantly, stakeholders within the QEP/LINC project aspire to elevate the stature of UT Health San Antonio through IPE research and scholarly activities, and an intimate understanding of IPE assessment and evaluation is essential to maximize opportunities through such endeavors.

Additionally, the assessment tools PACT and TeamsSTEPPS were considered as part of a longitudinal-based assessment in the program. The intent is for the two assessments to be given to learners who are enrolled in IPE activities. To that end, we will use the Performance Assessment Communication and Teamwork Tools Set, PACT. The PACT contains 5 instruments: two are self-report, pre-post assessments; and three are observational rating tools developed for raters with different levels of experience. All five tools contain items that reflect the five domains of Team STEPPS: Team structure, Leadership, Situation monitoring, Mutual support, and Communication. The PACT tools are designed to provide assessment feedback for learners, and evaluation information for program faculty. The second assessment tool is the TeamsSTEPPS Team Assessment Questionnaire and Team Performance Observation Tool (TAQ-TPOPT). The TAQ collects individual team members' perceptions of team foundation, functioning, performance, skills, leadership, climate/atmosphere, and identity in a 43-item questionnaire. The T-POT is an observational tool used in situ. It was designed to collect objective observations of team structure, leadership, situational monitoring, mutual support, and communication in 25 behavioral ratings. Used in concert, these two measures allow the capture of team member concerns and objective information on teamwork processes.

The LINC Core IPE Measurement Plan at UT Health San Antonio consists of four tools administered at three timepoints. Collectively, these tools measure changes in students' reactions, attitudes/perceptions, skills, and behavior related to interprofessional education and teamwork.

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

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 open-ended prompts

Level 2a	Student	 Interprofessional 	10 self-reported,			
Attitudes/	Perceptions of	Teamwork and Team-	quantitative items using a			
Perceptions	Interprofessional	based Practice	5-point Likert-type			
	Clinical Education-	 Roles & Responsibilities 	response scale			
	Revised, Version 2	for Collaborative				
	(SPICE-R2)	Practice				
		 Patient Outcomes from 				
		Collaborative Practice				
Level 2b	Interprofessional	 Interprofessional 	16 self-reported,			
Skills	Education	Interactions	quantitative items using a			
	Collaborative	 Interprofessional Values 	5-point Likert-type			
Level 3	Competency Self-		response scale			
Behaviors	Assessment Tool,					
	Version 3 (IPEC-3)					
	Interprofessional	Communication	21 self-reported,			
	Collaborative	 Collaboration 	quantitative items using a			
	Competency	 Roles & Responsibilities 	5-point Likert-type			
	Attainment Scale-	Collaborative patient-	response scale			
	Revised (ICCAS-R)	family centered				
		approach				
		Conflict management/				
		resolution				
		Team functioning				
* A deal' Control (Control Control Con						

^{*} Modified Kirkpatrick levels 2b (skills) and 3 (behaviors) are combined in this table because IPEC-3 and ICCAS-R report to measure both levels

Figure 1. Administration Schedule of LINC Core IPE Measurement Plan

^{**} See Appendices I-IV for complete versions of selected measurement tools

A Interprofessional Reactions Tool (IPRT) B Student Perceptions of Interprofessional Clinical Education—Revised, Version 2 (SPICE-R2) Interprofessional Education Collaborative Competency Self-Assessment Tool, Version 3 (IPEC-3) C Interprofessional Collaborative Competency Attainment Scale—Revised (ICCAS-R)

LINC Core IPE Measure A1 (pre) administered in August, LINC Core IPE Measure B administered in July, and LINC Core IPE Measures A2 (post) & C administered in mid-February.

Approval of the Dental Hygiene Program IPE Plan via faculty governance within the School of Dentistry is not required.

The approved AY2022-2023 Dental Hygiene Program IPE Plan was submitted to LINC on October 27, 2023.