TABLE 1 Emerging themes and subthemes from interview data.

Themes	Subthemes	
Challenges experi- enced by students in remote learning	Distractions at homeTechnical issuesLack of communication with othersLower motivation	
Student adapta- tions to remote learning	 Creating a new routine Adapting to new study environments Understanding and learning more about technology Having a positive mindset/thinking about the big picture Adjusting learning strategies and using more resources 	
Recommendations from students to improve remote learning	 Instructor: teaching, communication, social-emotional support University: resources and communication Family: understanding and support 	

TABLE 2
Instructor reflections and pedagogical strategies implemented in subsequent semesters in response to the interview data.

Themes	Subthemes	Instructor reflections and actions taken
Challenges experienced by students in remote learning	Distractions at home	Provided information about infrastructure with quiet spaces and stable internet and device loaner programs for electronic devices from the universities
	Technical issues	
	Lack of communication with others	 Created and monitored collaborative chemistry problems/ tasks via Google Jamboards or discussion threads via learning management systems Created group chats in apps such as GroupMe or Remind to send reminders of important deadlines of assignments or tasks
	Lower motivation	 Sent personalized early-alert motivational messages to all students during semesters via a tool named Canvas Insights Used frequency formative assessments and employed more interactive tech tools such as the Pear Deck program or Kahoot game to increase engagement and feature exemplary student responses to improve motivation Incorporated a real-world application group project based on student interest to increase student perceived task value, motivation, and peer-to-peer communication skills
Student adapta- tions to remote learning	Creating a new routine	Helped students establish a weekly calendar
	Adapting to new study environ- ments	Shared instructors' personal stories and used icebreakers to connect with students
	Understanding and learning more about technology	 Provided handout and gave brief instruction on tech tools during lectures Provided information about virtual IT training/tech support for students from universities
	Having a positive mindset and thinking about the big picture	Integrated an online module to teach growth mindset
	Adjusting learning strategies and using more resources	Integrated an online module to teach effective learning strategies