Lab	Tue, June 8	Thurs, June 10	Tour Description	Department/College	Address	Building	Room	Max Capacity
Infant Language and Perceptual Learning Lab	11:45am - 12:45pm	11:45am - 12:45pm	During a tour of our lab, we will show you how to we go about understanding how infants learn so much about language so quickly. Specifically, we will show you what methods and instruments we use to research how infants find, learn, and remember words that they hear in fluent speech and how they map them onto meaning.	Psychology	1404 Circle Drive	Austin Peay	409	10
Industrial & Systems Engineering	N/A	11:45am - 12:45pm	Our tour will begin in Tickle Room 500 (the large conference room) with an overview of Industrial Engineering and our department. We will continue our discussion as we tour the fifth floor, addressing topics that relate to each area or lab. The Factory Floor Lab – the only one of its kind on UT campus – will be a highlight, and we will spend a little while here discussing manufacturing and course content. We will conclude in the conference room with a Q&A session and wrap-up.	Industrial & Systems Engineering	851 Neyland Drive	Tickle	500	20
3D Folding of the Human Genome	N/A	11:45am - 12:45pm	Students will learn about how we study the 3D folding of the human genome, in which 6 feet of DNA is packed into a microscopic nucleus! Our lab studies how this genome folding plays a role in cancer, response to X-ray radiation, and premature aging. The tour will include a look at the key components of a cell and molecular biology research lab, a visit to a human cell culture room, a view of human chromosomes and cells under the microscope, and examples of how we use powerful computers to analyze and visualize large datasets.	Biochemistry & Cellular and Molecular Biology	1311 Cumberland Ave	Mossman	417	8
Biology of Bakers Yeast	11:45am - 12:45pm	11:45am - 12:45pm	The tour will cover the molecular and cellular biology of baker's yeast. We will cover techniques such as DNA electrophoresis and counting yeast cells using a hemocytometer.	Biochemistry & Cellular and Molecular Biology	1311 Cumberland Ave	Mossman	411	5
Molecular Biophysics	11:45am - 12:45pm	11:45am - 12:45pm	Introducing molecular biophysics, the computational biology lab, and a bit of hands-on experience with biomolecule visualization.	Biochemistry & Cellular and Molecular Biology	1311 Cumberland Ave	Mossman	305/306	12
Human-Robot Interaction	11:45am - 12:45pm	11:45am - 12:45pm	A demo of research on human-robot interaction. Students can have conversations and play simple games with robots.	Mechanical, Aerospace, and Biomedical Engineering	1506 Middle Drive	Perkins Hall	210	10
HITS Lab	N/A	11:45am - 12:45pm	The Health Innovation and Technology in Simulation (HITS) Lab is an inter-professional joint endeavor between Tickle College of Engineering and the College of Nursing. The HITS collaborative research team engages in research related to healthcare innovation and technology by generating intellectual property, developing and testing technologies, and designing products to improve simulation education of healthcare providers and health care practices.	College of Nursing	1818 Andy Holt Ave	Temple Hall	2nd floor	18
Biosystems Engineering and Soil Science	12:00 - 1:00pm	12:00 - 1:00pm	The tour will highlight the Biosystems Engineering unique senior design yearlong sequence, which is a wonderful opportunity to apply the theory that is learned in the first three years of Engineering.	Biosystems Engineering and Soil Science	2506 E.J. Chapman Drive	BESS Laboratory Building	166	20
COVID-19 Testing #1	11:45am - 12:15pm	11:45am - 12:15pm	As the COVID pandemic swept across the U.S., the University of Tennessee was tasked with the monumental effort of protecting its students from out-of-control infections. Doing so required the set-up of a laboratory testing facility that collected saliva samples from students from which polymerase chain reaction (PCR) assays were performed to detect nucleic acid signatures of the virus. Hear from our front-line workers in their efforts to test tens of thousands of samples to help mitigate the spread of COVID across the UT campus.	Center for Environmental Biotechnology	1414 Circle Drive	SERF	407	20
COVID-19 Testing #2	12:15 - 12:45pm	12:15 - 12:45pm	As the COVID pandemic swept across the U.S., the University of Tennessee was tasked with the monumental effort of protecting its students from out-of-control infections. Doing so required the set-up of a laboratory testing facility that collected saliva samples from students from which polymerase chain reaction (PCR) assays were performed to detect nucleic acid signatures of the virus. Hear from our front-line workers in their efforts to test tens of thousands of samples to help mitigate the spread of COVID across the UT campus.		1414 Circle Drive	SERF	407	20
McClung Museum	12:00 - 1:00pm	12:00 - 1:00pm	Explore the McClung Museum. Discover how a museum supports scientific research and education through its collections, laboratories, exhibitions, and staff expertise. From ecology to geology to archaeology... a museum is a unique, living home for science in action!	McClung Museum	1327 Circle Park Drive	McClung Museum		20

Small Animal Hospital, Large Animal Hospital, and Equine Performance Center	12:00 - 1:00pm	12:00 - 1:00pm	Tour groups will meet outside of the John Tickle Small Animal Hospital at the patient entrance (stairs facing Neyland Drive and the river). Tour will get to see all of Small Animal Hospital, Large Animal Hospital, and Equine Performance Center. Tours will cover the different departments and rotations offered in our hospital, along with the outline of our veterinary curriculum.	UT College of Veterinary Medicine	2407 River Drive	John and Ann Tickle Small Animal Hospital		6
CURENT	N/A	12:30 - 1:30pm	CURENT, Center for Ultra-Wide-Area Resilient Electric Energy Transmission Networks, is a National Science Foundation Engineering Research Center that is jointly supported by NSF (National Science Foundation) and the DoE (Department of Energy). This tour gives you the opportunity to learn about the power grid by a visualization demonstration, and to see state-of-the-art power electronics labs for electric vehicle and renewable energy related applications.	Electrical Engineering & Computer Science	1520 Middle Drive	Min Kao	124 (start here), 125, 119	20
Zooarchaeology & Paleoethnobotany Lab	11:45am - 12:45pm	11:45am - 12:45pm	Part 1: You will go through the comparative osteology collections. We have around 1,200 vertebrate skeletal specimens, including all kinds of local birds, fish, mammals, reptiles, and amphibians. These collections are tremendously useful for zooarchaeologists (who analyze animal bones from archaeological sites): they help us identify the often fragmentary remains of ancient animals. You will also see the stable isotope and ZooMS prep lab. This is where we sample and pretreat archaeological plant and animal remains for stable isotope and collagen peptide analysies. Part 2: In the Paleoethnobotany Lab tour, students will be introduced to the analysis of plant remains from archaeological sites. They will learn how archaeologists use stereomicroscopes and comparative collections to identify carbonized plant remains.	Department of Anthropology	1621 West Cumberland Ave	Strong Hall	421	12
Quantum Mechanics	11:45am - 12:45pm	11:45am - 12:45pm	Dr. George Siopsis's group is exploring the bizarre world of quantum mechanics. Its properties, such as superposition, coherence, entanglement, teleportation, etc., have given rise to various paradoxes (Schrodinger's cat, the Einstein-Podolsky-Rosen paradox, etc.). Back in the early '80s, Feynman was among the first to suggest that these principles may enable us to process information at much faster speeds than any classical computer. Ever since, people have been trying to harness the power of quantum mechanics and build a quantum computer. Another promising application of quantum mechanics is in secure communication and cryptography. It provides unprecedented means of transmitting encrypted information over a public channel. At Dr. Siopsis's quantum optics lab, you will see how light is used for the processing of quantum information.	Department of Physics	1414 Circle Drive	SERF	321	10