Lab	Department	Address	Building	Room	Max Capacity	6/15/2021	6/17/2021	Tour Description
Infant Language and Perceptual Learning Lab	Psychology	1404 Circle Drive	Austin Peay	409	10	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.
Biology of Bakers Yeast	Biochemistry & Cellular and Molecular Biology	1311 Cumberland Ave	Mossman	411	5	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.
Human-Robot Interaction	Mechanical, Aerospace, and Biomedical Engineering	1506 Middle Drive	Perkins Hall	210	10	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.
HITS Lab	College of Nursing	1818 Andy Holt Ave	Temple Hall	2nd floor	18	11:45am - 12:45pm	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.
Biosystems Engineering and Soil Science	Biosystems Engineering and Soil Science	2506 E.J. Chapman Drive	BESS Laboratory Building	166	6	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.
McClung Museum	McClung Museum	1327 Circle Park Drive	McClung Museum		20	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!
Small Animal Hospital, Large Animal Hospital, and Equine Performance Center	UT College of Veterinary Medicine	2407 River Drive	John and Ann Tickle Small Animal Hospital		6	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.
CURENT	Electrical Engineering & Computer Science	1520 Middle Drive	Min Kao	124 (start here), 125, 119	20	11:45am - 12:45pm	11:45am - 12:45pm	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.
Quantum Mechanics	Department of Physics	1414 Circle Drive	SERF	321	10	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.

Chromosomes and Cell Division in Bacterial Cells	Department of Physics	1414 Circle Drive	SERF	224	5	11:45am - 12:15pm	11:45am - 12:15pm	We study how chromosomes are organized and how cell division proteins assemble in bacterial cells. We try to understand these processes from physics perspective but use a range of tools spanning from ones in molecular biology toolbox, to techniques in high and super resolution microscopy and polymer physics modeling. In tour you will be able to see bacterial cells in the microscope. These cells carry fluorescent labels for some key proteins in cell. You will be able to see also microfluidic chips that we use for live cell measurements. We develop and fabricate these chips ourselves.
Chromosomes and Cell Division in Bacterial Cells	Department of Physics	1414 Circle Drive	SERF	224	5	12:15 - 12:45pm	12:15 - 12:45pm	We study how chromosomes are organized and how cell division proteins assemble in bacterial cells. We try to understand these processes from physics perspective but use a range of tools spanning from ones in molecular biology toolbox, to techniques in high and super resolution microscopy and polymer physics modeling. In tour you will be able to see bacterial cells in the microscope. These cells carry fluorescent labels for some key proteins in cell. You will be able to see also microfluidic chips that we use for live cell measurements. We develop and fabricate these chips ourselves.