UMass Turing Summer Program 2025
(This is the tentative schedule; the final version will be updated soon)

´,	July 7	July 8	July 9	July 10	July 11
	Day 1 (Lilly/Emmanuel)	**Day 2 (Tammy)**	**Day 3 (John)**	**Day 4 (Nathan)**	**Day 5 (Jorge)**
9:30 AM - 11:00 AM	**Student check-in** Program Intro, Prashant/Lilly/Emmanuel	**Lecture**: Body Area Networks for Mobile Health **Jeremy Gummeson**	**Lecture**: Intro to Robotics **Hao Zhang (Oscar)**	**Lab**: Compute and Network Devices (Emmanuel)	**Lecture/lab**: Enabling Health with Wearables **Ivan**
11:00 AM - 12:00 PM	**Icebreaker**: Spaghetti Tower Tammy	**Lab**: Sensor Data Exploration with Low Power Sensors **Jeremy Gummeson**	**Lab Tour**: Human-Centered Robotics (HCR) **Hao Zhang (Oscar)**	**(*)Scripted Lab**: Step Count (Hetvi)	**Lecture**: Cloud Computing (Lilly)
12:00 PM - 1:30 PM					
1:30 PM - 2:30 PM	**Lecture**: Introduction to CS, Prashant	**(*)Lab**: Getting Started with Python - Variables, (Tammy)	**(*)Lab**: If-else condition, (John)	**(*)Lab**: Loop, (Nathan)	**(*)Lab**: Lists/Arrays/Sets (Jorge)
2:30 PM - 3:30 PM	**(*)Lab**: Introduction to Computer Programming, Lilly	**(*)Lab**: Getting Started with Python - I/O (Tammy)	**(*)Lab**: If-else condition (con't), (John)	**(*)Lab**: Loop (cont) (Nathan)	**(*)Lab**: Lists/Arrays/Sets (cont) (Jorge)
3:30PM - 4:00 PM					

	July 14	July 15	July 16	July 17	July 18
	Day 1 (Marc Liberatore)	**Day 2 (Brian Levine)**	**Day 3 (Wayne Burleson)**	**Day 4 (Dan Holcomb)**	**Day 5 (Amir Houmansadr)**
9:30 AM - 11:00 AM	**Lecture**: Introduction to Blockchain **Scripted Lab**: Hash function	**Lab**: Intro programming related to the scripted lab **Lecture**: Introduction to digital forensics (including breaks)	**Lab**: Introduction to Cryptography **Scripted Lab**: Block Ciphers	**Lecture/Lab**: Introduction to computer hardware (boolean logic, integrated circuits, fabrication)	**Lecture/Lab**: Anonymous communications
11:00 AM - 12:00 PM				**Lecture/Lab**: Introduction to hardware fingerprinting for privacy and authentication	**Lecture**: Security and AI
12:00 PM - 1:30 PM					
1:30 PM - 2:30 PM	**Lecture/Lab**: Public Key Cryptography	**Scripted Lab**: Digital Forensics	**Lecture**: Embedded Security	**Lecture**: Introduction to reverse engineering	**Program Tour**: Server Room (Emmanuel / Lilly)
2:30 PM - 3:30 PM			**Program Tour**: ECE Labs **Lecture**: Women in Cryptography	The Imitation Game	**Program Tour**: Campus Walk (Tammy)
3:30PM - 4:00 PM	**Program Tour**: Makerspace 3D and Laserprinting (Emmanuel)	Project Idea/Scope Discussion (Lilly)	**Lecture**: Future Topics in Cryptography		

	July 21	July 22	July 23	July 24	July 25
	Day 1 (Emmanuel)	**Day 2 (Adam)**	**Day 3 (Walid)**	**Day 4 (Lilly/Emmanuel)**	**Day 5 (Lilly/Emmanuel)**
9:30 AM - 11:00 AM	**Lecture**: Unique Sources of Energy Friction, Temperature Difference Noman	**Lecture**: Energy and Sustainability 2 Mohammad	**Lecture**: Earable Systems for Healthcare VP Nguyen (Amir and Aziz)	**Computers for Creativity**: Student Team Project	**Computers for Creativity**: Project Demo
11:00 AM - 12:00 PM	**Lecture**: Energy and Sustainability 1 David	**Lecture**: Energy and Sustainability 3 Adam	**Lab**: Health Care Sensing VP Nguyen (Amir and Aziz)		
12:00 PM - 1:30 PM					
1:30 PM - 2:30 PM	**Lecture**: Smart Bulb (Emmanuel)	**Lecture**: Transportation **Jimi Oke**	**Lecture**: Edge AI Walid	**Computers for Creativity**: Student Team Project	**Student Hangout**: Fun and Games
2:30 PM - 3:30 PM	**Show and Tell**: Smart Bulb (Emmanuel)	**Lecture**: Energy and Sustainability 4 Nikko	**Show and Tell**: Mixed AR/VR Yasra		
3:30PM - 4:00 PM		**Show and Tell**: Electricity Map (Tammy)		**Panel Session**: Life as a CS Undergraduate at UMASS	**Program Debrief** Prashant/All