First Year Explorations is a way for you to experience some of the many learning opportunities that MIT has to offer. In addition to tours of the world’s top research labs and facilities, we are offering open houses and presentations related to a variety of MIT programs and resources, including UROP, department offerings, the chaplains, and much more. Inside, you will find the schedule and descriptions of all of the activities that are occurring during First Year Explorations. Have fun exploring!
# First Year Explorations Events by Time

<table>
<thead>
<tr>
<th>Event Time</th>
<th>Event Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10am</td>
<td>Architecture and Design Open House and Presentation</td>
</tr>
<tr>
<td>10am</td>
<td>CEE Pierce Lab Showcase</td>
</tr>
<tr>
<td>10am to 6pm</td>
<td>Where Computers, Chemistry, (Quantum) Physics, Biology, and Mathematics come together - Molecular Dynamics!!</td>
</tr>
<tr>
<td>11am</td>
<td>Exploring Chemistry</td>
</tr>
<tr>
<td>11am</td>
<td>Chemical Engineering Open House</td>
</tr>
<tr>
<td>11am and 2pm</td>
<td>Hack the Humanities!</td>
</tr>
<tr>
<td>12pm</td>
<td>Pizza Lunch with 5.301 First Year UROP Chemistry Connection &amp; Chemistry Lab Nano Tour</td>
</tr>
<tr>
<td>12pm, 12:30pm, and 1pm</td>
<td>MIT Solar Electric Vehicle Team</td>
</tr>
<tr>
<td>12pm</td>
<td>UROP Opportunities in Course 11</td>
</tr>
<tr>
<td>12pm</td>
<td>Physics Lightning Talks</td>
</tr>
<tr>
<td>1pm, 1:30pm, and 2pm</td>
<td>Beaver Works</td>
</tr>
<tr>
<td>1pm, 2pm, and 3pm</td>
<td>MIT Media Lab Tours</td>
</tr>
<tr>
<td>1pm</td>
<td>Watch a Female Egg Cell Getting Made</td>
</tr>
<tr>
<td>1pm</td>
<td>Introduction to J-PAL</td>
</tr>
<tr>
<td>1pm</td>
<td>Register to Vote with TurboVote</td>
</tr>
<tr>
<td>1pm</td>
<td>The Quiet Quest: A Tour of MIT's Hidden Spots for Self-care</td>
</tr>
<tr>
<td>1pm</td>
<td>MIT's History: A Tour of the MIT Archives</td>
</tr>
<tr>
<td>2pm</td>
<td>HCI (Human-Computer Interaction) Engineering Group</td>
</tr>
<tr>
<td>2pm</td>
<td>Letterpress Printing at the Beaver Press</td>
</tr>
<tr>
<td>2pm</td>
<td>Mechanical Engineering at MIT: Tour of Pappalardo Lab and Q&amp;A about the major with current students</td>
</tr>
<tr>
<td>3pm</td>
<td>CPR Blitz</td>
</tr>
<tr>
<td>3pm</td>
<td>Beaver Works</td>
</tr>
</tbody>
</table>

**Architecture and Design Open House and Presentation**

**Time:** 10 AM to 11 AM  
**Location:** 7-338  
**Tour limit:** 25  
Course 4 offers an open house for all first-year students on Thursday Aug. 29 from 10-11AM to explore the programs the Department offers in architecture, art and design. Presentations will be made by faculty and staff to introduce students to the various ways of incorporating the tools taught in architecture, art and design into all MIT studies. Bring your questions and enjoy breakfast with us.
CEE Pierce Lab Showcase
Time: 10 AM to 11 AM
Location: 1-363
Tour limit: N/A
Join the Department of Civil and Environmental Engineering for tours of two labs: The Juanes Research Group lab and the Laboratory for Multiscale Characterization and Materials Design. Following the lab tours, you'll chat with some of the students who are currently UROPing in the department.

Where Computers, Chemistry, (Quantum) Physics, Biology, and Mathematics come together - Molecular Dynamics!!
Time: 10:30 AM to 6PM; repeats every 15 minutes
Location: 6-220
Tour limit: 3 per tour
Even though our lab is a chemistry lab, we have a very unique lab space to work in (a surprise to be revealed when you come - (hint) it's in the middle of nowhere in Massachusetts - you will get a reward of $1 cash directly from me if you could tell me what I'm talking about). We will be exploring the lab and talking with graduate students & post-docs about their experience in this lab - and also say hi and share some snacks with the Honored Principle Investigator - Dear Dr. Bin Zhang.

Exploring Chemistry
Time: 11 AM to 11:30 AM
Location: 6-201
Tour limit: N/A
Join the Chemistry Department for an Open House and meet current faculty, students, and staff. Enjoy some snacks, get all of your Chemistry GIR questions answered, and learn about everything Chemistry has to offer! Hear about UROP opportunities, the new ChemFlex option, and our brand-new Undergraduate Teaching Lab.

Chemical Engineering Open House & Lab Tours
Time: 11 AM to 12 PM and 3 PM to 4 PM
Location: 66-201
Tour limit: 40
Come learn about the exciting world of Chemical Engineering! Meet and chat with faculty, students, and members of the Student Office. There will be lab tours offered from 11:00 am-12:00 pm and again from 3:00-4:00 PM in 66-201. Light refreshments will be served. Visitors will also get a chance to see Chemical Engineering research demos done by ChemE students from 1:00-2:00 pm in 66-201.
Hack the Humanities!
**Time:** 11 AM to 11:30 AM & 2 PM to 2:30 PM  
**Location:** 16-635  
**Tour limit:** 30  
Join the Digital Humanities Lab for your UROP and create computer tools for solving problems in the humanities! Explore machine learning through coding while working with large and interesting data sets with a humanities focus alongside your peers! Earn $12+/hour while building the future with Digital Humanities!

Pizza Lunch with 5.301 First Year UROP Chemistry Connection & Chemistry Lab Nano Tour  
**Time:** 12 PM to 1 PM  
**Location:** 12-4216  
**Tour limit:** N/A  
Find out how Chemistry Laboratory Techniques (5.301) offered during MIT's Independent Activities Period (IAP) guarantees first year students a UROP opportunity in the Chemistry Department for 2020. Event includes a Pizza Lunch and ends with a walking tour of the Undergraduate Chemistry Labs

MIT Solar Electric Vehicle Team  
**Time:** 12 PM to 12:30 PM, 12:30 PM to 1 PM, and 1 PM to 1:30 PM  
**Location:** MIT Museum (N51-144)  
**Tour limit:** 15  
The MIT Solar Electric Vehicle Team (SEVT) was started over 30 years ago with a mission to design and manufacture solar powered vehicles to race in long distance endurance races. Since then, it has evolved over the years as a unique group of its own, allowing students to extend their education far beyond the classroom. Members come from multiple majors and get an intense experience as they undergo a real world engineering challenges everyday. Because the team is student run, members also gain invaluable business and project management skills. As such, SEVT does what few other experiences can - it allows college students to have full control over an incredible project.

The MIT Solar Electric Vehicle Team sets its goals beyond just winning races. The team is dedicated to promoting clean energy and alternatively powered vehicles. Members participate in seminars, lectures, museum displays, conferences dedicated to alternative energy, and numerous Earth Day and ecological fairs. Community outreach is incredibly important to us and we never hesitate to educate more people about our mission.

UROP Opportunities in Course 11
Time: 12 PM to 12:30 PM
Location: 9-451
Tour limit: 30
Learn more about course 11 UROP opportunities over a snack!

Physics Lightning Talks
Time: 12 PM to 1 PM
Location: 8-329 (Physics Common Room)
Tour limit: N/A
Are you curious what physics research is like? Wondering about the problems physicists worry about all day? Interested in astronomy, particle physics, cosmology, quantum computing, and more? Come hear bite-size explanations from Course 8 undergraduates on what their research is like. (There will be snacks.)

Beaver Works
Time: 1 PM, 1:30 PM, and 2 PM (tours will be 15 minutes)
Location: NE45-201
Tour limit: 30 per tour
Overview of UROP, Sandbox project as well as Capstone courses supported by Beaver Works

Media Lab Tour
Time: 1 PM, 2 PM, and 3 PM (tours will last 30 minutes)
Location: outside main entrance of MIT Media Lab
Tour limit: 30 per tour
The tour will showcase the different labs in the MIT Media Lab and the types of research done in each one. As an example, the Responsive Environments lab, mainly focuses on analyzing data from surrounding environment, such as analyzing auditory data to model human attention or create soft robotics that mimics human behavior. Another, Community Biotechnology, involves creating accessible ways for people to explore biotechnology on their own. Check out this tour hosted by a UROP student in the Media Lab!

Watch a Female Egg Cell Getting Made
Time: 1 PM to 4 PM
Location: 68-458
Tour limit: 10
In the female ovary, a lot is at stake. To make an egg cell, cytoplasmic fluid has to be 'dumped' from support cells into the egg cell. This is quite possibly the most important fluid dynamics problem in your life. We will show you how to dissect ovaries from a fruit fly and how we can put this on a microscope to watch a female egg cell getting made.
**Introduction to J-PAL**
*Time:* 1 PM to 2 PM  
*Location:* E19-258  
*Tour limit:* N/A  
This will be an introduction to the work J-PAL does related to our mission of reducing poverty by ensuring that policy is informed by scientific evidence. We do this through research, policy outreach, and training. We will talk about our research and how J-PAL faculty use UROPs, and also about our non-research work in the policy area. Cookies will be provided!

**Register to Vote with TurboVote**
*Time:* 1 PM to 5 PM  
*Location:* Lobby 10  
*Tour limit:* N/A  
Stop by Lobby 10 to meet MITvote and sign up for TurboVote, MIT"s voter registration system. If you're a US citizen and at least 18 years-old on or before Election Day, you can use TurboVote to register to vote, sign up to receive election reminders, and apply for your absentee ballot. It’s quick, easy, free... and important!

**The Quiet Quest: A Tour of MIT's Hidden Spots for Self-care**
*Time:* 1 PM to 2 PM  
*Location:* MIT Chapel  
*Tour limit:* N/A  
The PSETS are coming! Where on campus can you go to find peace and QUIET? Where are the hidden spots for de-stressing and mindfulness? Where can you escape and recharge? Join us for this unique tour that will lead you to spaces including the MIT Chapel, ORSEL’s Quiet Space in Walker Memorial, inspirational public art, and other hidden gems of self-care.

**MIT's History: A Tour of the MIT Archives**
*Time:* 1 PM to 2 PM  
*Location:* MIT Archives, Building 14N-118  
*Tour limit:* 10  
A brief tour and discussion of key documents in MIT's history on display at the MIT Archives.
HCI (Human-Computer Interaction) Engineering Group
Time: 2 PM to 2:15 PM
Location: 32-211
Tour limit: N/A
The HCI (Human-Computer Interaction) Engineering Group at MIT CSAIL builds novel hardware and software tools to advance personal fabrication technologies with the goal to lower the entry barrier for users to become technical innovators. The group is led by Prof. Stefanie Mueller. Some of the recent research projects of the group focus on 3D printing, color-changing objects, rapid prototyping of electronic devices. Group’s web page: https://hcie.csail.mit.edu/

Letterpress Printing at the Beaver Press
Time: 2 PM to 4 PM
Location: 10-810 (8th Floor of Barker Library)
Tour limit: 10
Interested in learning about MIT’s facsimile Gutenberg printing press? Stop by the Beaver Press print shop to see a printing demonstration and learn about classes and workshops connected with the Press.

Mechanical Engineering at MIT: Tour of Pappalardo Lab and Q&A about the major with current students
Time: 2 PM to 2:30 PM
Location: 3-004 (Pappalardo Lab)
Tour limit: N/A
Want to find out more about Mechanical Engineering (Course 2)? Take a guided tour of the Pappalardo Lab, the makerspace home of two of Course 2’s best known classes, 2.007 Design and Manufacturing (eg robot competition class) and 2.009 Product Engineering Processes (design and build an innovative product that solves a real human need). Afterwards, meet with current Course 2 undergrads for Q&A to answer all your questions about the major – what are the classes like? What kinds of clubs and activities are you involved in? What about summer internships, UROPs, and future careers?

CPR Blitz
Time: 3 PM to 5 PM (training takes 30 minutes)
Location: 5-134
Tour limit: N/A
CPR is a tremendously powerful intervention for victims of cardiac arrest, defined as a sudden loss of consciousness, breathing, and heart function. Bystander CPR is an easily learned skill, and its immediate application in an emergency can double a victim’s chance of survival. Come by to learn a skill that can help save someone’s life!
Beaver Works
Time: 3 PM & 3:30 PM (each tour will last for 15 mins)
Location: 31-115
Tour limit: 30 per tour
Overview of UROP, Sandbox project as well as Capstone courses supported by Beaver Works