1 Middle and High School Virtual Academy

CALTEACH
AT UC MERCED

**2020
BOBCAT SUMMER STEM
ACADEMY**
VIRTUAL EDITION

- Seats limited to **30 participants per workshop**

Middle School (5th-8th grade) Workshops

Stay home and Code with NetLogo!
Times students will log-in: 1pm to 3pm

Dates: June 8th- June 12th
Price: $20

Students will be introduced to NetLogo, a low floor, high ceiling agent based programming language used for modeling and simulations. Students will build a representation of a virus spread and use it to think about what we could do to slow it down.

Presented by Chi-Yan Leung's team, School of Engineering at UC Merced, undergraduate student instructors: Mighty Chen & Sabrina Lauv

---

Times students will log-in: 10am to 11:30am & 2:30pm to 4:30pm

Introduction to Virtual Robotics #1 - Living in a connected world

Dates: June 15th- June 19th
Price: $20

This workshop is an introduction to Robotics Virtual Worlds simulation platform. We will discover the power of simulation and learn to program for EV3 and Lego Mind storm platforms. We will introduce the sensors and control methodology. **Special requirements: Need a Windows laptop or computer!**

Presented by graduate student instructor, School of Engineering at UC Merced: Jose Alcala

---

Times students will log-in:
Mon, Wed & Fri: 10am to 12pm
Tuesday and Thursday: 2pm to 4pm

CSI Rookie Academy: Who Dunnit?

Dates: June 22nd- June 26th
Price: $20

Throughout this online workshop, you will become a rookie CSI Detective! We will study famous investigations, learn techniques used by real life detectives and apply them all to solve our very own case!

Presented by CalTeach undergraduate student instructor, School of Natural Sciences at UC Merced: Kimberly Gonzalez

---

Times students will log-in: 10am to 11:30am & 2:30pm to 4:30pm

Applications for Virtual robotics #2 - Navigating a connected world
Price: $20

Dates: July 6th- July 10th

Virtual Robotics #2 continues where learning the Robotics Virtual Worlds simulation platform. We learn to use mathematical theory to accomplish tasks and navigate through virtual world. We will introduce the LabView engineering systems software for high-level integration of our simulated environment.
Special requirements: Need a Windows laptop or computer!

Presented by graduate student instructor, School of Engineering at UC Merced: Jose Alcala

1 Middle and High School Virtual Academy

- Seats limited to **30 participants per workshop**

CALTEACH
AT UC MERCED

**2020
BOBCAT SUMMER STEM
ACADEMY**
VIRTUAL EDITION

Middle School (5th-8th grade) Workshops Continued...

Times students will log-in: 1pm to 3pm

Price: $20

Shark Survivor!
Dates (Two- week session):
July 13th- July 17th & July 20th- July 24th
Come learn how sharks survived through mass extinction events and adapted to changing climates. See if your shark will survive by the end of the week!

Presented by Dr. Sora Kim's team, School of Natural Sciences at UC Merced, graduate student instructors:
Rachel Chan, Molly Karnes & Gabriele Larocca Conte

Times students will log-in: 9:30am- 11am

Price: $20

Back to the Future! Time traveling through California!
Dates: July 20th- July 24th
This workshop will introduce students to California terrestrial biodiversity - how we study biodiversity today and in the past,and what secrets it holds for the future.
Presented by Dr. Jessica Blois' team, School of Natural Sciences at UC Merced, graduate and undergraduate student instructors:
Robert Boria and Daniela Alvarado Flores

Register Here: https://commerce.cashnet.com/UCME251_W1

Limited fee waivers available for need-based participants, click below:
https://forms.gle/QcdxLpwkTHUCwf8x7

CalTeach
University of California, Merced

1 Middle and High School Virtual Academy

- Seats limited to **30 participants per workshop**

High School (9th-12th grade) Workshops

Stay home and Code with NetLogo!

<u>**Times students will log-in:**</u> **1pm to 3pm**

Price: $20

Dates: June 15th- June 20th

Students will be introduced to NetLogo, a low floor, high ceiling agent based programming language used for modeling and simulations. Students will build a representation of a virus spread and use it to think about what we could do to slow it down.

Presented by Chi-Yan Leung's team, School of Engineering at UC Merced, undergraduate student instructors:
Mighty Chen & Sabrina Lauv

<u>**Times students will log-in:**</u> **10am to 11:30am & 2:30pm to 4:30pm**

Hands on Circuit Theory -Discover the world inside the machine

Price: $40

Dates: June 22nd- June 26th

Hands on Circuit Theory course is accompanied with Arduino beginners' kits. Together we will explore how to leverage the hardware to discover, learn and implement circuit theory basics. This mathematics orientated course will help strengthen the student's problem solving skills with real word applications.

**Price includes the Arduino beginners' kit and shipping costs

Presented by graduate student instructor, School of Engineering at UC Merced:
  Jose Alcala

Register Here: https://commerce.cashnet.com/UCME251_W1

Limited fee waivers available for need-based participants, click below:
https://forms.gle/QcdxLpwkTHUCwf8x7

CalTeach
University of California, Merced