



APPLY NOW
DEADLINE IS
NOV. 29

Attend I/ITSEC Free!

Selected applicants get free registration to the Interservice/Industry Training, Simulation and Education Conference – the world’s largest of its kind – in Orlando starting Nov. 29, 2021.

**EARN CLASS CREDIT,
HELP THE NATION’S DEFENSE**

H4D at UCF

An Entrepreneurial Approach to Solving Problems for the U.S. Department of Defense

About H4D = Hacking for Defense®

H4D is a college course sponsored by the U.S. Department of Defense now offered at more than 30 universities around the nation, including the University of Central Florida.

The course challenges students to work with the nation’s defense and intelligence communities to quickly address emerging threats and security problems. The class uses the entrepreneurial Lean Launchpad business startup approach and rapid problem-solving “hack” strategies to create innovative solutions to some of the most complex and important real-world problems facing our military.

Example: An H4D student team helped develop an innovative way for U.S. Navy SEALs to safely communicate and receive orders while submerged under water, thus eliminating their need to surface multiple times to receive communications signals.

H4D at UCF

Innovative students from any discipline at the graduate or undergraduate level can join this national collegiate effort. You don’t have to study engineering or computer science to succeed in H4D. Creative, outside-the-box thinkers from diverse fields are encouraged to apply to achieve a dynamic class mix of problem-solvers.

This class is designed to simulate what startups and entrepreneurship are like in the real world: chaos, uncertainty, impossible deadlines in insufficient time, conflicting input, and more.

Led by UCF faculty Mark Heinrich and Oscar Rodriguez, both experienced technology industry entrepreneurs and educators based in the UCF College of Engineering and Computer Science, students will spend a significant amount of time outside the class talking to customers. Each team will conduct a minimum of 10 customer interviews per week focused on a specific part of the business model canvas.

The Ideal H4D Student

UCF seeks innovative, entrepreneurial students with energy, discipline, and a strong sense of commitment who would thrive in a fast-paced team environment while working on challenges posed by the U.S. Department of Defense specifically for the H4D class.

1. Come to class ready to tackle real-world problems in innovative ways.
2. Work as a team to rapidly iterate technology solutions while searching for product-market fit.
3. Learn to understand all the stakeholders, deployment issues, costs, resources and ultimate mission value of your innovation.
4. Prepare for and deliver minimum viable products that match customer needs in a short time.
5. Produce a repeatable model that can be used to launch other potential technology solutions.

How to Apply

www.cecs.ucf.edu/h4d/

Learn about the national Hacking for Defense® program at the H4D website

www.h4d.us



**Class Begins
January 2022**

APPLY NOW!

Who Can Register:

Graduate and undergraduate students from any discipline

Prerequisites:

Demonstrated innovative drive to solve complex problems for national defense



Course Enrollment

H4D is a team-based class and has limited enrollment by application only. If accepted, admission will be granted to individuals or to teams of four UCF students from any school or department. Working and studying will be done in teams. Exceptions for team size and external members will be

made on a case-by-case basis. UCF intends to assemble a mixed class of graduate and undergraduate students.

The H4D class has a high workload. Students are expected to invest at least 10 to 15 hours per week.



THE HACKING FOR DEFENSE CLASS PROMOTES ENGAGEMENT BETWEEN STUDENTS AND THE MILITARY AND PROVIDES A HANDS-ON OPPORTUNITY TO SOLVE REAL NATIONAL SECURITY PROBLEMS.

— STEVE BLANK, LEAN LAUNCHPAD FOUNDER AND H4D INSTRUCTOR AT STANFORD UNIVERSITY

H4D IS ALL ABOUT THINKING OUT OF THE BOX TO FIND A SOLUTION THAT FITS THE CUSTOMER'S NEEDS. MY FAVORITE PART WAS THE INTERVIEWS. I GOT A LOT OF EXPOSURE TO INDUSTRY PROFESSIONALS, AND I EVEN ACCEPTED A JOB OFFER FROM ONE OF THEM.

— MONICA BERNARD '21 MS COMPUTER SCIENCE, FORMER H4D AT UCF STUDENT



Why Apply?

H4D gives you an exclusive opportunity to

- meet like-minded creative innovators
- network with defense leaders
- help U.S. military personnel in a real-world way
- boost your college transcript and career résumé
- become a technology entrepreneur
- experience a unique class unlike any other at UCF

How to Apply

Applications for individuals or pre-assembled teams of four students from any discipline at UCF will be accepted. The deadline to apply is Monday, Nov. 29.

To ensure students or teams will be a good fit for this class, the Hacking for Defense instructors will conduct interviews with the selected applicants.

- Individuals, if accepted, will work with the H4D instructors to join a team formed around a problem. Students should specify their preference for a problem to work on, with the understanding that they are not guaranteed to work on that problem.
- Teams: all team members must be interviewed together and all teammates must attend the first class.

Check the H4D at UCF website for thorough information, application forms and instructions, and key dates. The class list and wait-listed students will be posted online.

Visit

<https://www.cecs.ucf.edu/h4d/>

Questions? Contact H4D at UCF Lead Faculty

Mark Heinrich - heinrich@ucf.edu
Oscar Rodriguez - oscar@ucf.edu



Attendance and Participation

- You cannot miss the first class without prior approval.
- This is an intense class with a demanding workload. If you cannot commit to 10-15 hours a week outside the classroom, this class is not for you.
- We emphasize a true startup culture. At times this can feel brusque and impersonal, but in reality the atmosphere is focused and oriented to create immediate action in time- and cash-constrained environments.
- If during the semester you find you cannot continue to commit the time, immediately notify your team members and teaching team and drop the class. Standard drop/add processes will apply.
- If you expect to miss a class, please let the TA and your team members know ahead of time via email.
- We expect your full attention during our presentations. If you find yourself getting bored, tired or inattentive, step outside for some air. If we see you reading email or browsing the web we will ask you to leave the class.
- We want to know who you are, so please use a name card during every session of the class.
- During your classmates' presentations you will be required to give feedback online via the LaunchPad Central system. Please bring a laptop to every class and be prepared to give your undivided attention to the team at the front of the room.



College of Engineering and Computer Science

UNIVERSITY OF CENTRAL FLORIDA

Dean's Office
P.O. Box 162993 | Orlando, FL 32816-2993

Connect with us on social media

