

# CS189A - Capstone

Christopher Kruegel  
Department of Computer Science  
UC Santa Barbara  
<http://www.cs.ucsb.edu/~chris/>



# Logistics

UC Santa Barbara

---

- **Lectures**

Mon/Wed/Fri -- 1:00-1:50PM, 387 103

- **Discussions:**

Tue -- 5:00-5:50, 387 103 (but not tomorrow)

- **Instructor:**

Christopher Kruegel (chris@cs.ucsb.edu)

- **Teaching Assistant:**

Hans Nielsen (hnielsen@umail.ucsb.edu)

---

# Logistics

UC Santa Barbara

---

- Class website  
<http://www.cs.ucsb.edu/~chris/teaching/cs189>
  - We will provide functionality on this website to help
    - access presentations/materials provided by industry partners
    - access deliverables from projects from prior years
    - submit your project deliverables
    - interface with Google services such as Google groups, Google docs, Blogger
-

# Course Overview

UC Santa Barbara

---

- 189A first week (Jan. 3-7)
  - (mostly) company representatives present the challenge problems
  - students form teams (~5 members each) and pick projects
- 189A goals
  - specify what the product will do
  - design the product
  - build a prototype

teams iterate on these three activities until they converge to working prototype!

- 189A (~last week)
    - prototype demonstration
-

# Course Overview

---

UC Santa Barbara

- In 189A, in addition to building a prototype for the project, you will also prepare the requirements and design specifications
    - please turn in everything either in **pdf** or **html**
    - all project artifacts by all teams will be accessible by class
  - There will be no home works, midterm or final
    - you can devote a lot of time and energy to the project!
  - However, there will be reading assignments and quizzes
  - You will be graded on the project deliverables, quizzes, your performance in presentations and discussions and
    - you will also receive a peer grade
      - I will ask you to grade each other's performance during the project since you know what your team members are doing much better than I
-

# Structure of the Class

---

*UC Santa Barbara*

---

- The class will be organized as follows
    - Monday lectures: Instructor discusses a general software engineering topic
    - Wednesday lectures: Instructor (or a guest lecturer) presents a tool or a technology related to some or all of the projects
    - Friday lectures: Teams present what they have done and we discuss the progress of each team
    - Tuesday discussions: Project workshop conducted by TA
-

# This Year's (Mostly) Industry Partners

UC Santa Barbara

---

- Sam Stokes                      Microsoft
  - Eron Howard                    Novacoast
  - Steve Zahm                      Procore
  - Samuel Gasster                Aerospace Corporation
  - Steven Fitzgerald              Eucalyptus Systems
  - Giovanni Vigna                 Webwise Security
  - Andre Sayre                      RunUO
-

# How to Claim a Project?

UC Santa Barbara

---

- To claim a project you have to form a team of
    - **at least 4**, and
    - **at most 6** members
  - **Each** team member has to e-mail the instructor the following:
    - the name of the team
    - the project they wish to work on
    - names of **all** team members
  - The project is claimed by a team when:
    - the instructor receives an e-mail from each team member with the above information (the information in each e-mail has to match) **and**
    - if no other team has claimed the project earlier
  - One team per project!
    - team that gets organized first and sends the e-mails gets the project
-



# First Three Assignments

*UC Santa Barbara*

---

- All the teams must be formed by the beginning of 2<sup>nd</sup> week of classes, **Monday, January 10**
    - You have to form your teams in the first week and pick a project
  - Each team must prepare a 2-page vision statement about the project describing, due **Friday, January 14th**
    - what the project is about
    - what will be the outcome of the project
    - what will be the implementation platform
  - A team member from each team is going to present this vision statement to the class on **Friday, January 14th**
-