
CSCI 3907/6907.81

ADVANCED SECURITY SEMINAR



Project Deliverables

Update [01/22/12]: All written deliverables must be formatted according to the IEEE Computer Society's conference publishing templates, which can be found at <http://www.computer.org/portal/web/cscps/formatting>. Use either the Word template or the LaTeX template, which are linked in a box on the left-hand side of that page.

1. Proposal

Write a one-page proposal for your project. State the problem you are solving, why it is an interesting or useful problem, what you will build (software/theorems), and what the expected results will be. Think of this as writing the introduction section of a research paper that would be published in a CS conference. Due on Monday, February 6.

2. Survey paper

Write a survey of research in the topic area of your project. The length should be two to three pages excluding the bibliography. Think of this as writing the related work section of a research paper that would be published in a CS conference. Due on Thursday, February 23.

The week after you submit your survey paper, you will have an individual meeting with me to review your project status and trajectory.

3. Midterm draft paper

Write a draft of your final paper. The draft should include abstract, introduction, and related work sections that are in mature shape and close to what they will look like in the final paper. The introduction should clearly state your project's goals, why those goals are worthwhile, and how you're going to achieve them.

If your project involves building software, your draft should include a complete design section that is in relatively mature shape. The draft should also include an implementation and evaluation plan. Describe how you plan to implement the software and what experiments you will run on/with it.

If your project involves proving theorems, your draft should include a complete mathematical background section that is in relatively mature shape, as well as your own new definitions and some worked-out examples. The draft should also include preliminary

formal statements of theorems that you plan to pursue, as well as preliminary intuitive justifications of why you believe those theorems hold, and what formal proof technique you believe will succeed.

If your project involves building both software and theorems, your draft should include all the above.

Think of this as writing a draft of a research paper that would be published in a CS conference. Due on Monday, April 2 Wednesday April 4.

The week after you submit your draft, you will have an individual meeting with me to review your project status and trajectory.

4. Peer review

You will be assigned two or three draft papers written by other students. Write reviews of those drafts. Think of this as writing the same kind of reviews that you have been writing for papers we've been reading, but also including substantial constructive criticism. The reviews written by other students about your own draft will be given to you as feedback. You should incorporate that feedback into your final paper. Due on Monday, April 9.

5. Final presentation

Give a presentation to the class about your final project, which should be essentially completed. Your presentation should use slides and last about 25 minutes, with another 5 minutes for questions. Think of this as giving a talk about your final paper at a CS research conference. Held in class on Monday and Wednesday, April 30 and May 2.

6. Final paper

Finish writing your paper, by revising and completing your midterm draft paper. Add a conclusions section, which should include discussion of future work, as well as any other sections that make sense for your project. Due Wednesday, May 9.

7. Poster session

Prepare a poster about your project and present it to the public at a poster session. Details about the poster session are still being finalized and will be announced later. It is likely to be on the afternoon of May 18 4.