

## Policy review for the final exam

**Exam conditions** Again, the final exam will be “open book, open notes”. You may bring to the exam anything additional to help you which is *non-living*.

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Students in this course should be able to discuss with some knowledge certain issues intertwining mathematics, communications, and social and political policy. What *can* be done according to currently understood technology? What is politically and socially feasible? What is legal? Some specific topics are listed below.

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- Write a paragraph or two making a case on behalf of the FBI regarding the regulation of import and export of cryptographic material.
- Write a paragraph or two explaining the controversies that surrounded the introduction of the Data Encryption Standard in the 1970's.
- Write a paragraph or two explaining why an encryption standard might be useful.
- Write a paragraph or two on how encryption might affect an electronic marketplace.
- Write a paragraph or two arguing on behalf of an insurance company regarding the privacy of medical records.
- Write a paragraph or two explaining real world uses of hash functions and digital signatures. Try to give at least one example where a mistake or weakness in the system used could have serious real-world consequences.
- Intellectual property: suppose you are a young jazz performing artist. Realistically, there may be 3,000 people in the U.S. who'd like to listen to you. What's your position on copyright?