

IOWA STATE UNIVERSITY

College of Engineering

Masters of Engineering in Information Assurance New Program Review

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Brief Summary

- Graduated 25 students
- Growth in military personnel
- Demand for cyber security professionals is increasing and so is demand for the degree

	Projected Enrollment	Actual Enrollment
Fall 2011	10	11
Fall 2012	15	21
Fall 2013	20	37
Fall 2014	25	46
Fall 2015	30	50

The Cyber Security Profession

Students in Information Assurance are leaders in defending the nation from cyber attacks.

- ISU has one of the nation's oldest cyber security programs



Iowa State's Program

- Home department: Electrical and Computer Engineering ...
 - ... but Information Assurance is distinct from computer engineering, computer science
- NSA Center of Academic Excellence
- Part of multi-level Information Assurance program
 - On campus MS in IA
 - Off-campus MS in IA
 - Undergrad minor in cyber security
- M.Eng. focused on working professionals looking to enhance their career opportunities

What We Proposed

- A coursework only on-line masters degree
- 10 courses
- Over half of courses have one or more lab experiments
- Required capstone course where students defend and attack networks they build
- Focused on students in the workforce with an IT background, but not necessarily a formal degree in computing

Current State of the Program

- 30% of the students currently work/live in Iowa
- Most graduates stay with the companies they are currently employed with
- No full-time faculty designated to program; students take classes alongside peers in other degree programs, resulting in little or no marginal costs

Future Plans

- Program growth expected in response to demand
- Engineering College is establishing a new Information Security Education Lab (ISELab) to support graduate and undergraduate courses in information assurance
- Offer additional courses online



Questions?