Genesys, Inc. Innovative Technology Solutions

CAPITOL TECHNOLOGY UNIVERSITY

Information Assurance as a College Major

Presented by Dr. Sherry Lakes

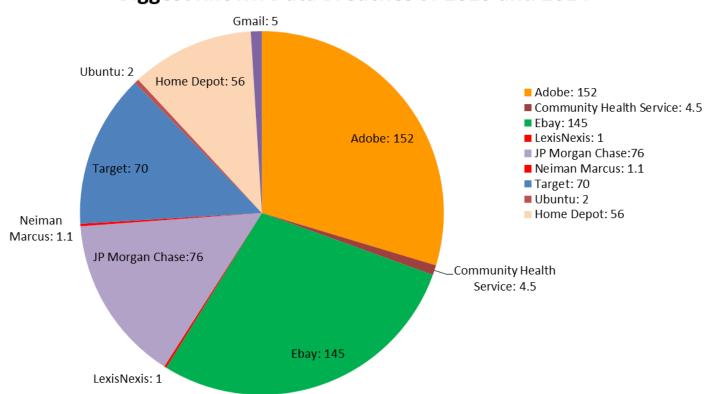
Federal Information Systems Security Educators Association (FISSEA)

28TH Annual Conference

24-25 March, 2015

Background

Biggest Known Data Breaches of 2013 and 2014

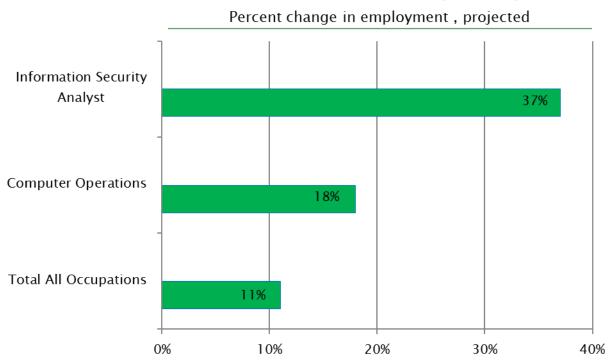


Cybersecurity Initiatives

- Education
 - FISSEA
 - NICE
- Policy
 - Executive Orders
 - Publications
- Technology
 - Firewalls
 - Secure Token Services

Cybersecurity Professionals (Projected Need)

Information Security Analyst



Note: All Occupations include all occupations in the U.S. economy.

http://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm#tab-6

Cybersecurity Professionals (Increased Demand)

- Increased the demand for cybersecurity professionals
- Shortage of cybersecurity professionals has caused cybersecurity-related job openings in U.S. companies to go unmet
- Potentially negative impact of the shortage of cybersecurity professionals

Cybersecurity Professionals (Increased Demand)

- The current landscape
- The predicted need
- Hiring regime

Chapman's Model of Students' College Choice

Educational Aspirations

Academic Performance

College Choice

Significant Persons

College Characteristics

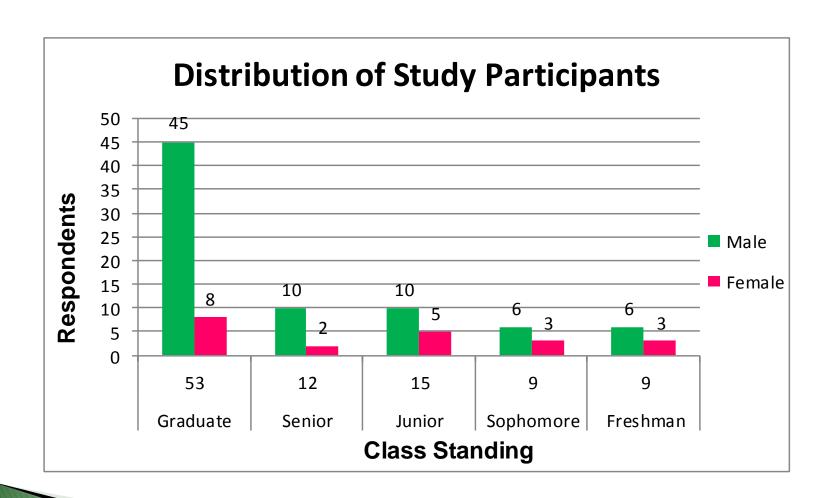
Aptitude

Socioeconomics

College's Efforts to Communication with Students

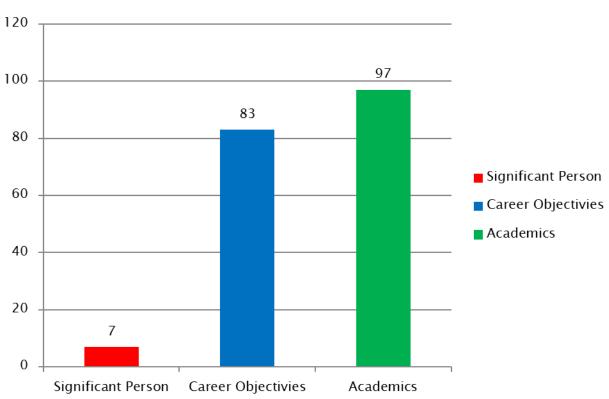
**Career Objectives are not part of Chapman's model

Study Population



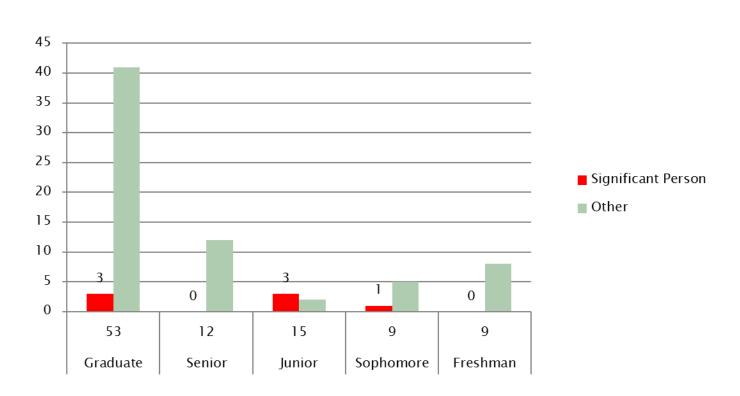
Dominant Categories

Thematic Categories



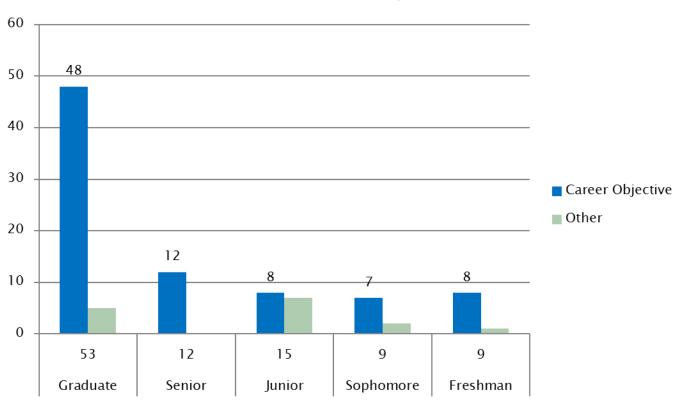
Influence by Significant Person(s)

Influence by a Significant Person (7%)



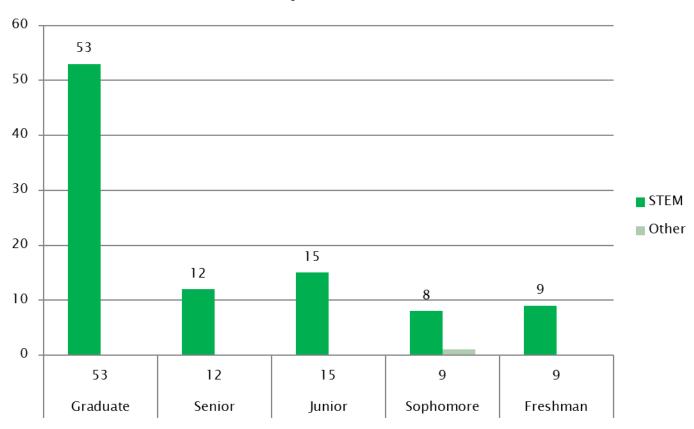
Influence by Career Objectives

Influence by Career Objectives (85%)



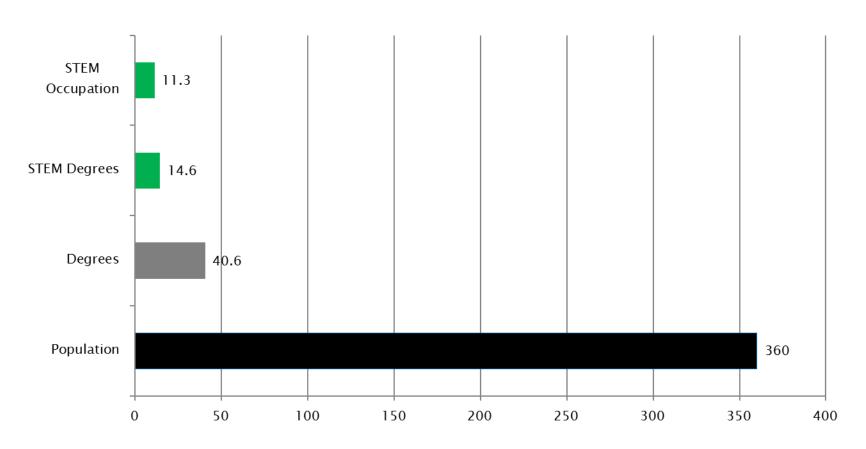
Influence by Academics

Influence by STEM Courses (99%)



Census Report

2011 Census Report; STEM Excerpt



Note: Numbers in Millions

http://www.census.gov/prod/2013pubs/acs-23.pdf

Conclusion

- Increased Demand for Cybersecurity Professionals
- Predominate Influencer toward IA Degree
 - Academics (STEM)
- Possible Strategies
 - Instruction Alignment
 - Additional Courses
 - Inclusion
 - Integration
 - Delivery
 - Cybersecurity Cognizance

THANK YOU!!!

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