

# Cybersecurity and Information Assurance Programs



The key is collaboration!

# COLLABORATION

- Why collaboration
- NSF grant

# NSF GRANT AND STUDENTS

- Seamless transition for students
  - ECC or GCC for an associates degree or certificate program
  - Hilbert for a baccalaureate degree in Economic Crime Investigation
  - Masters in the areas of IA and security from UB
- Greater number of students pursuing a graduate degree

# NSF GRANT AND FACULTY

- Faculty training
- Faculty collaboration

# NSF GRANT AND LABS

- Labs are costly
- Software
- Lab security

# IN CONCLUSION...

- Through this collaborative grant, we will be able to:
  - Help students have a seamless transition
  - Train faculty in forensics
  - Upgrade computer labs



Thank you

# HILBERT'S ECI PROGRAM

- Hands on, practical approach to information assurance
- Law enforcement focus
- Certified to CNSS 4011 and 4013E



# FACTORS TO CONSIDER

- Qualified faculty
- Textbooks
- Dedicated lab
- Costs of software



**Hilbert College**  
**ECONOMIC CRIME INVESTIGATION**  
 Baccalaureate in Science Degree  
 123 Credit Hours

Anticipated graduation _____
Updated _____
Updated _____
Updated _____

Name \_\_\_\_\_

**MAJOR COURSES: LOWER-LEVEL (12)**

- ACC 205 ACCOUNTING PRINCIPLES I \_\_\_\_\_
- ACC 206 ACCOUNTING PRINCIPLES II \_\_\_\_\_
- CJ 101 INTRODUCTION TO CRIMINAL JUSTICE \_\_\_\_\_
- CJ 204 CRIME & SOCIETY \_\_\_\_\_

**MAJOR COURSES: UPPER-LEVEL (21)**

- ACC/ECI 313 FINANCIAL INVESTIGATIONS \_\_\_\_\_
- CJ 333 INFORMATION SECURITY \_\_\_\_\_
- ECI 340 INTELLIGENCE RESEARCH METHODS \_\_\_\_\_
- ECI 350 LAW OF ECONOMIC CRIME \_\_\_\_\_
- ECI 450 SENIOR SEMINAR \_\_\_\_\_
- ECI/CJ/LW \_\_\_\_\_
- ECI/CJ/LW \_\_\_\_\_

**LIBERAL ARTS: UPPER-LEVEL (18)**

- EN 340 PROFESSIONAL AND TECHNICAL WRITING \_\_\_\_\_
- INTERDISCIPLINARY CORE II \_\_\_\_\_
- LIBERAL ARTS
  - 1. \_\_\_\_\_
  - 2. \_\_\_\_\_
  - 3. \_\_\_\_\_
- ALL COLLEGE ELECTIVE
  - 1. \_\_\_\_\_

**GENERAL REQUIREMENTS (42)**

- EN 101 COLLEGE WRITING \_\_\_\_\_
- EN 102 WRITING IN THE HUMANITIES \_\_\_\_\_
- COM 151 PUBLIC SPEAKING \_\_\_\_\_
- INTERDISCIPLINARY CORE I \_\_\_\_\_
- MATH
  - 1. MA 200 TOPICS IN STATISTICS \_\_\_\_\_
  - 2. MA 145 COLLEGE MATHEMATICS OR EQUIVALENT \_\_\_\_\_
- SO 101 INTRODUCTION TO SOCIOLOGY \_\_\_\_\_
- ECO 201 MICROECONOMICS \_\_\_\_\_
- LIBERAL ARTS ELECTIVES (ANY LEVEL)
  - 1. \_\_\_\_\_
  - 2. \_\_\_\_\_
  - 3. \_\_\_\_\_
- ALL COLLEGE ELECTIVES (ANY LEVEL)
  - 1. \_\_\_\_\_
  - 2. \_\_\_\_\_
  - 3. \_\_\_\_\_

<b>Option:</b>
<input type="checkbox"/> Computer Security
<input type="checkbox"/> Financial Investigations
<input type="checkbox"/> Undecided

<b>Computer Security (CS) Option (30)</b>
<b><u>Lower-Level Courses (15)</u></b>
MA 180 Discrete Math _____
CIS 170 Computer Systems: Comp. Architecture and OS _____
CIS 220 Intro. To Computer Programming C/C++ _____
CIS 230 Database Management Systems _____
CIS 270 Introduction to Computer Networking _____
<b><u>Upper-Level Courses (15)</u></b>
ECI 345 Computer and Network Security _____
ECI 355 Computer Crime _____
ECI 360 Computer Forensics _____

<b>Financial Investigation (FI) Option (30)</b>
<b><u>Lower-Level Courses (15)</u></b>
Math/Science Elective _____
Computer Elective _____
MIS 206 or CIS 230 _____
ACC 270 Income Tax Theory and Practice _____
BUS/ACC/ECI Elective _____
<b><u>Upper-Level Courses (15)</u></b>
ACC 310 Corporate Taxation _____
ACC 320 Intermediate Accounting I _____
ACC 321 Intermediate Accounting II _____
ACC 420 Auditing _____
ACC 430 Fraud Examination _____



**Hilbert College**  
**ECONOMIC CRIME INVESTIGATION**  
 Baccalaureate in Science  
 123 Credit Hours

Anticipated graduation \_\_\_\_\_  
 \* \* \* \* \*

Name \_\_\_\_\_

**MAJOR COURSES: LOWER-LEVEL (12)**

ACC 205 ACCOUNTING PRINCIPLES I \_\_\_\_\_

ACC 206 ACCOUNTING PRINCIPLES II \_\_\_\_\_

**GENERAL EDUCATION**

EN 101 C \_\_\_\_\_

EN 102 V \_\_\_\_\_

COM 151 \_\_\_\_\_

**Computer Security (CS) Option (30)**

Lower-Level Courses (15)

MA 180 Discrete Math \_\_\_\_\_

CIS 170 Computer Systems: Comp. Architecture and OS \_\_\_\_\_

CIS 220 Intro. To Computer Programming C/C++ \_\_\_\_\_

CIS 230 Database Management Systems \_\_\_\_\_

CIS 270 Introduction to Computer Networking \_\_\_\_\_

Upper-Level Courses (15)

ECI 345 Computer and Network Security \_\_\_\_\_

ECI 355 Computer Crime \_\_\_\_\_

ECI 360 Computer Forensics \_\_\_\_\_

ECI 380 Business Continuity \_\_\_\_\_

ECI 410 Introduction to Cryptography \_\_\_\_\_

**Financial Investigation (FI) Option (30)**

Lower-Level Courses (15)

Math/Science Elective \_\_\_\_\_

Computer Elective \_\_\_\_\_

MIS 206 or CIS 230 \_\_\_\_\_

ACC 270 Income Tax Theory and Practice \_\_\_\_\_

BUS/ACC/ECI Elective \_\_\_\_\_

Upper-Level Courses (15)

ACC 310 Corporate Taxation \_\_\_\_\_

ACC 320 Intermediate Accounting I \_\_\_\_\_

ACC 321 Intermediate Accounting II \_\_\_\_\_

ACC 420 Auditing \_\_\_\_\_

ACC 430 Fraud Examination \_\_\_\_\_

COLLEGE ELECTIVES (ANY LEVEL)

Key:

NOTE: The degree program requires 123 credit hours to graduate.

Revised 1-20-07

ALL COLLEGE ELECTIVE

1. \_\_\_\_\_

**Option:**

- Computer Security
- Financial Investigations
- Undecided