

## Bachelor of Science

# INFORMATION SECURITY & INTELLIGENCE

### *Delta College – Transfer Guide* (Effective Fall 2011)

As the only program of its kind in the country, Ferris Information Security & Intelligence (ISI) Program is at the forefront in its response to the need for skilled workers in Information Security/Data Analysis/Digital Investigation and Forensics. Developed with input from the U.S. Department of Homeland Security, the Pentagon, and investigative agencies; providing hands on utilization of state of the art technology, this program is uniquely positioned to satisfy the education credential necessary for students to be licensed as Professional Investigators in the State of Michigan, while our computer forensics coursework is accepted for meeting the education requirement to site for computer forensic examinations. In June 2011, Ferris State University formally received its designation as National Center of Academic Excellence in IA Education (CAE/IAE) by the NSA (National Security Agency), DOD (Department of Defense) and the DHS (Department of Homeland Security). Ferris successfully mapped its ISI (Information Security & Intelligence) and ISM (Information System Management) programs classes against all six NSA standards making it one of very few universities in the country to have achieved that level of mapping and the CAE/IAE designation.

#### General Admission Criteria

To be admitted to this program you must have a 2.7 cumulative GPA in 48+ credits as a transfer student. You will need to submit official transcripts from all colleges/universities with your application.

## Course Requirements

### Delta College

(FSU equivalencies are in parentheses)

#### General Education Requirements (satisfied by MACRAO Stamp)

|                                                                                                           |   |
|-----------------------------------------------------------------------------------------------------------|---|
| COM 114 Interpersonal Communication (COMM 105 ) or<br>COM 112 Fund. Of Oral Communication (COMM 121)..... | 3 |
| ENG 111 College Composition I (ENG 150).....                                                              | 3 |
| ENG 112 College Composition II (ENG 250).....                                                             | 3 |
| Scientific Understanding w/Lab.....                                                                       | 4 |
| Scientific Understanding without Lab.....                                                                 | 3 |
| Cultural Enrichment Electives (See FSU Advisor).....                                                      | 9 |
| Social Awareness Electives (See FSU Advisor).....                                                         | 9 |
| MTH 119 Intermediate Algebra<br>Or MTH 120 Finite Mathematics (MTH 115).....                              | 3 |

(Students must also satisfy Global Consciousness & Race, Ethnicity, Gender requirements if they do not receive a MACRAO stamp)

#### Business Core Courses

|                                                   |   |
|---------------------------------------------------|---|
| MTH 208 Elementary Statistics (STQM 260).....     | 3 |
| ACC 211 Principles of Accounting I (ACT 201)..... | 4 |
| MGT 245 Principles of Management (MGMT 301).....  | 3 |
| MGT 243 Principles of Marketing (MKTG 321).....   | 3 |

### Ferris State University

#### General Education Courses

|                                             |   |
|---------------------------------------------|---|
| ENG 311 or 321 or 325 Advanced Writing..... | 3 |
|---------------------------------------------|---|

#### Business Core Courses

|                                         |   |
|-----------------------------------------|---|
| MGMT 350 Tools for Decision Making..... | 3 |
|-----------------------------------------|---|

#### Information Security & Intelligence Major Core

|                                                       |   |
|-------------------------------------------------------|---|
| STQM 270 Introduction to Data Mining.....             | 3 |
| STQM 360 Risk Analysis and Strategy.....              | 3 |
| ISIN 200 All Things Digital.....                      | 3 |
| HSCJ 202 Principles of Information Security.....      | 3 |
| HSCJ 310 Digital Forensics and Incident Response..... | 3 |
| PROJ 320 Project Management Fundamentals.....         | 3 |
| HSCJ 317 Fraud Examination.....                       | 3 |
| ISIN 429 Legal and Ethical Issues in Security.....    | 3 |
| ISIN 300 Visual Analysis.....                         | 3 |
| ISIN 301 Data Intelligence Competitive Theory.....    | 3 |
| ISIN 312 Applications of Information Security.....    | 3 |
| ISIN 390 Special Topics in Information Security.....  | 3 |
| ISIN 491 Internship.....                              | 3 |
| ISIN 499 Capstone (Senior Standing).....              | 3 |
| ISYS 200 Database Design (CST 257).....               | 3 |
| Directed Electives.....                               | 7 |

#### Available ISI Concentrations (Delta courses in parenthesis)

##### Digital Forensics

|                                                 |   |
|-------------------------------------------------|---|
| HSCJ 315 Advanced Digital Forensics.....        | 3 |
| ISYS 216 Java (CST 183).....                    | 3 |
| ISYS 325 Networking Essentials (CST 161).....   | 3 |
| ISYS 371 Advanced Database (CST 159 & 259)..... | 3 |

##### Network Security

|                                                      |   |
|------------------------------------------------------|---|
| ISYS 277 Linux Network Administration (CST 265)..... | 3 |
| ISYS 325 Networking Essentials (CST 161).....        | 3 |
| Approved Elective (CST 260).....                     | 3 |
| Approved Elective (CST 269).....                     | 3 |

##### Project Management (Online)

|                                              |   |
|----------------------------------------------|---|
| PROJ 350 Project Scheduling.....             | 3 |
| ISYS 351 Project Communication.....          | 3 |
| PROJ 420 Project Procurement & PMP Prep..... | 3 |
| MGMT 370 Quality Operations Management.....  | 3 |

##### Applied Networking

|                                    |   |
|------------------------------------|---|
| ECNS 115 Networks 1 (CST 161)..... | 3 |
| ECNS 125 Networks 2 (CST 164)..... | 3 |
| ECNS 215 Networks 3 (CST 260)..... | 3 |
| ECNS 225 Networks 4 (CST 264)..... | 3 |

##### National Security (Online)

|                                                             |   |
|-------------------------------------------------------------|---|
| ISIN 350 Organizational Planning and Security Measures..... | 3 |
| ISIN 351 Global Security and Policy.....                    | 3 |
| ISIN 352 The Role of Intelligence.....                      | 3 |
| Approved Elective.....                                      | 3 |

##### Software Development

|                                                   |   |
|---------------------------------------------------|---|
| ISYS 216 Intro to Java (CST 183).....             | 3 |
| ISYS 316 Intro to C++ (CST 180).....              | 3 |
| ISYS 204 Intro to Visual Basic (CST 271).....     | 3 |
| ISYS 304 (Advanced C++ Programming (CST 280)..... | 3 |

##### Foreign Language

|                               |    |
|-------------------------------|----|
| Foreign Language Classes..... | 12 |
|-------------------------------|----|

|                                         |            |
|-----------------------------------------|------------|
| <b>Total Gen Ed Credits.....</b>        | <b>40</b>  |
| <b>Total Business Core Credits.....</b> | <b>16</b>  |
| <b>Total ISI Core Credits.....</b>      | <b>45</b>  |
| <b>Total Concentration Credits.....</b> | <b>12</b>  |
| <b>Directed Electives Credits.....</b>  | <b>7</b>   |
| <b>TOTAL CREDITS.....</b>               | <b>120</b> |