



COURSE SYLLABUS

Course Name: IA 694: Professional Seminar in Information Assurance

Instructor: _____

Office Hours: _____

Office: _____ Telephone: _____ FAX Number: _____

Internet/E-Mail Address: _____

Course Description: This course provides culminating experience for students completing their master's degrees in information security, as well as those completing their graduate certificates in information security. For the graduate certificate in information assurance, the student's research project will constitute a specialization on the MLS with a concentration in Information Assurance. The classroom portion of the course will comprise a detailed examination of information warfare as a backdrop against which student research projects may be cast. Emphasis is upon

Course Prerequisites/Corequisites: Must have completed all required core courses and be within the required hours of respective program completion.

Purpose of the Seminar: The purpose of this seminar is to provide experience for students completing their respective programs. The nature and requirements of the BTED 694 Professional Seminar in Business and Technology are previously introduced to students by their graduate program advisor and by graduate faculty teaching the required core courses.

Candidate outcomes coincide with the master's degree and graduate certificate degree requirements, as the seminar provides the integrative environment in which those achievements are demonstrated.

Upon completion candidates will:

- Evidence an understanding of the philosophical, historical, social, psychological and economic forces and factors that impact and shape business and industry, technology, governments and every day living, as it relates to information and information technology.
- Exhibit the competencies necessary to plan and implement comprehensive and viable business, industrial and technological objectives and planning.
- Evidence the ability to design and implement evaluation systems and programs in business and industry to insure growth.
- Interpret, conduct and apply research and research methodology for problem solving.
- Demonstrate professional participation and leadership.
- Demonstrate increased competence in the technical concepts, processes, and systems needed in business and industry.

Information Technology and Information Security:

- Demonstrate the ability to evaluate and write policies, which provide the foundation for a sound information security program.
- Complete an assessment of risks to the security of information and establish security requirements for an actual or simulated organization.
- Communicate on information security matters and technical security matters.

- Evaluate the legal implications of security policies and interventions for information owners, custodians, and users, with particular emphasis on the requirements of the information security specialist.
- Access and use information security resources from relevant governmental agencies, businesses, and professional organizations.
- Prepare competent written documents (plans, analyses, reports, or other documents as required in a comprehensive information security program).

Course requirements: In this capstone seminar, students will integrate principles and knowledge from core courses and discussions and will engage in other integrative activities by completing the following requirements.

1. Completing weekly class readings, assignments, etc. and participation.
2. Work alone or with designated class members on a team presentation, of a major research report.
3. Each individual or team will prepare a final research report of approximately 10,000 words, following the:

Style Manual of the American Psychological Association, 5th edition, 2001.
This manual is also available on line at www.apastyle.org (MLA style also is acceptable)

All reports must be word-processed. Two copies of the report are due by the required date.

The report must include:

1. **A title page**
2. **Table of Contents**
3. **A complete bibliography** at the end of the document including WEB sites utilized for this paper.
4. **A PowerPoint Presentation** consisting of no more than 10 slides, with copies of this presentation being handed out to each member of the class at the start of the presentation. This PowerPoint presentation is to be used so that each team may present their research work.
7. **Statement of the Problem**-addressing the chosen area of research, approximately 1-2 pages in length.
8. **Statement of Need**- describing why this research is important in business and industry, how it affects organizations, its information and its global competitiveness etc., approximately 1-2 pages in length.
9. **Research Statement** -focusing on the future of business and industry, the workforce, the IT environment and how they are changing. Also, how to address this new complexity existing with information so that current and future business needs are met.
10. **Research report** – result of the research and its implications.
11. **Summary Statement**-summarizing all the facts and information. Approximately 1-2 pages in length.
12. **Appendices**- for supplemental material
13. **Storage**-this entire project is to be stored in a lightweight binder, with Dividers and all appropriate items, to insure a total professional business document. The second copy of the report is to be stapled/ secured together.

Preparation and Submission of Work: All work is to be original with the individual and/or group authors. All material adapted for use in reports, regardless of medium of origin, shall be documented and all guidelines for the use of copyrighted materials shall be followed. The Style Manual of the American Psychological Association (use the most current edition) or the MLA style must be followed for the research proposal and other papers unless an exception has been stated. All reports are to be prepared using appropriate information technologies. Students are to retain a copy of all materials submitted to the seminar. Students who submit the work of others, including companies and organizations, as their own will be penalized to the full extent permitted by University policy including expulsion.

Conduct of the Seminar: The seminar will use a variety of approaches to achieve course outcomes. They include but are not limited to: student-led discussions on the readings, issues, professional leadership, and student presentations of work. Discussion may include electronic forums as well as face-to-face interaction. Participation and attendance is expected from all students. Lectures will be extremely limited in favor of student participation.

Notes on Requirements and Grading:

- Class sessions will involve interactive approach and student activities. Students are expected to have prepared for the week's discussion.

Attendance at all times is required of all students, and failure to attend is considered lack of participation. Verifiable emergencies will only be considered.

Text and Handouts: Students may receive reading assignments that may include handout material, and/or research searches, and is responsible to read and act on the material as directed.

The required texts are:

- **Global Information Warfare, Jones, Kovacich and Luzwick. Auerbach Publications, 2002, ISBN #0-8493-1114-4.**
- **Information Warfare and Security, Denning, Dorothy E. Addison-Wesley, 1999, ISBN #0-201-43303-6**

Course Content and Schedule:

Week 1:

- **Introductions**
- **Course Overview**
- **Developing the research proposal**

Week 2:

- **Research proposals due**
- **The nature and role of information warfare**

Week 3:

- **Research proposal conferences**

Week 4:

- **Threat calculation**

Week 5:

- **Information warfare: Nation States**

- Week 6:**
 - **Information warfare: Corporations**
- Week 7:**
 - **Information warfare: Activists and other radicals**
- Week 8:**
 - **The impacts of information warfare**
- Week 9:**
 - **The tools of information warfare**
- Week 10:**
 - **Offensive information warfare**
- Week 11:**
 - **Defensive information warfare**
- Week 12:**
 - **Research report preparation**
- Week 13:**
 - **Research report preparation**
- Week 14:**
 - **Presentations**
- Week 15:**
 - **Presentations**
(No late projects, work or presentations are accepted)

*****The Instructor reserves the right to make any additions/deletions or changes to this syllabus as deemed necessary.**