About CSC

The Center for Secure Cyberspace (CSC) is a joint collaboration between Louisiana State University (LSU) and Louisiana Tech University created to assist faculty and students in their research, and to support federal, state and private sector cyberspace security needs in collaboration with the Cyber Innovation Center (CIC) in Bossier City, Louisiana to shape the future of Cyberspace.

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Center for Secure Cyberspace
Interdisciplinary Graduate Program
Ph.D. CAM - Computational Analysis & Modeling

Successful candidates in the CAM program have a firm grasp of the fundamentals of mathematical modeling as well as the expertise to implement, analyze and evaluate such models using state of the art computing environments and advanced visual data analysis techniques.

Admission Requirements:

Students must submit GRE scores before an application can be evaluated. In addition, International students are required to submit an official TOEFL score of at least 550 (paper-based), 213 (computer-based), or 80 (internet-based) before their application will be evaluated.

Purpose

The goal of the Center for Secure Cyberspace (CSC) is to establish a National Center of Excellence dedicated to education and research in integrated smart cybercentric sensor surveillance systems.

CSC Research Focus Areas

- Dynamic Network Formulation
- Secure Information Dissemination
- Data Fusion and Prediction of Disaster Precursors
- Visualization and Validation

Curriculum Requirements

Typically 72 hours of graduate work (professional education requirements listed below) work is required for the degree. The core consists of 15 graduate hours of mathematics and statistics, 9 graduate hours of computer science and 9 graduate hours of a third area, called the area of application, chosen from Biology, Chemistry, Cyberspace, Forestry, Physics, Psychology, Statistics, or a participating engineering discipline.

The dissertation may be written in Mathematics, Computer Science or possibly another area included in the program. The topic of the dissertation will be called the area of specialization.

Professional Education Requirements

Mathematics

Math 414 and Math 415; and any 3 from the following courses – Math 407; Math 574; Stat 620; Stat 621. Higher numbered Math courses may be substituted for core courses in mathematics, at the discretion of the student's committee.

Computer Science

CS 428 and CS 438 and any advanced course. The total hours of above three courses are 9.

Assistantships

Graduate Assistantships are available with stipends starting between $13,000 and $18,000 a year, for highly qualified applicants. Fellowships and Research Assistantships are also available for qualified students who meet the requirements of these programs.