

University of Louisville
J. B. Speed School of Engineering
Computer Engineering and Computer Science Department

Graduate Certificate Program in Network and Information Security*

The graduate certificate in Network and Information Security is designed for advanced computer professionals in the region who wish to strengthen their knowledge and skills in the fast changing field of Information Security as well as students majoring in disciplines other than Computer Engineering and Computer Science Department. The goal of the certificate is to respond to the challenges posed by the rapid technological advancements in the area of networking and consequent emergence of new and sophisticated threats and attacks on the nation's critical information infrastructure. The scope of network and information security certificate includes monitoring, and identification of cyber criminals. There is growing need for certified security professionals and in order to meet this requirement (<http://www.nsa.gov/ia/academia/caeiae.cfm>).

The curriculum for the Network and Information Security Certificate program requires the completion of a total of 12 credits of coursework, consisting of four 3-credit courses. The courses are:

Required

- CECS 566 Information Security
- CECS 564 Introduction to Cryptology

Two electives from the following:

- CECS 617 Mobile Computing
- CECS 694 Special topic on Computer Forensics
- CECS 632 Data Mining
- CECS 694 Special topic on Network Security
- CECS 694 Special topic on Information Assurance

All these courses have prerequisites that must be either completed prior to enrollment or receive a waiver based on work experience / transfer of credit from another institution. The course tuition and other fees are as applicable for any graduate course at the university, including the resident and non-resident rates.

Schedule of course offerings are available online at <http://www.louisville.edu>.

For further details, contact Drs. Anup Kumar, or Adel Elmaghraby, [\(ak,adel\)@louisville.edu](mailto:(ak,adel)@louisville.edu).

*Pending Approval