Computer Engineering (MS)
Distance Graduate Degree Program
Department of Electrical and Computer Engineering

Program Description
Computer engineers serve a vital role in driving and implementing new technologies. From technical proficiency in software and hardware to the understanding of complex systems, economic impact and ethics, students in the computer engineering program become competent problem solvers at all levels of computer engineering. This program provides students with the unique opportunity to learn about the relationships among different engineering disciplines.


Credit Hours to Complete: This degree (offered as both thesis and non-thesis options) requires 30 credit hours of coursework to complete.

Delivery Format: Courses are delivered over the Internet, via live streaming video; collaborative learning software includes WebEx and Blackboard; classes are archived online for review and easy access.

Course Management Software: Blackboard.

Admission Requirements
Bachelor’s degree in related field from ABET accredited university (or equivalent international), with GPA ≥ 3.2; GRE V+Q ≥ 301; GRE Q ≥ 157 (1100; GRE Q ≥ 730 on the old scale); GRE WR score ≥ 3.

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Application Deadlines:
Fall semester - August
Spring semester - December
Summer session - May

For more information, go online
http://dce.mst.edu
Network Centric Systems

(Shared with Engineering Management)
Recent advances in information technology and the increased level of interconnectivity that society achieved through internet and broadband communication technology created systems known as network centric systems. Network centric systems comprise a diverse category of large and complex systems whose preprimary purpose is providing network-type services. They are frequently collaborative systems that are built on the partially voluntary and uncontrolled interaction of complex elements.

The graduate certificate in Network Centric Systems allows practicing engineers to develop the necessary skills for the design and operation of network centric systems. The graduate courses selected for the program address the intersection between network engineering and systems engineering and architecting.

Curriculum:

Core Course:

SysEng/CmpEng 419: Network-Centric Systems Architecting and Engineering
This course addresses the intersection between network engineering and the needs of systems architecting and engineering. Prerequisite: Sys Eng 469 or graduate standing.

Elective Courses (select three):

Communications Engineering
CmpEng 317: Fault-Tolerant Digital Systems
CmpEng 319: Digital Network Design
CmpEng 348: Wireless Networks
CmpEng 349: Trustworthy, Survivable Computer Networks
CmpEng 448: High Speed Networks
CmpEng/SysEng 443: Wireless Adhoc and Sensor Network
CmpSci 467: Mobile and Sensor Data Management

Admission Requirements

The graduate certificate program is open to all individuals holding a BS in an engineering or hard scientific discipline who have a minimum of two years professional experience or are currently accepted into a graduate degree program at Missouri S&T.

The certificate program consists of four courses, which consist of core and elective courses. In order to receive a Graduate Certificate, the student must have an average graduate cumulative grade point of 3.0 or better in the certificate courses taken.

Student admitted to the certificate program will have non-degree graduate status but will earn graduate credit for the courses they complete. If the four-course sequence approved by the graduate advisor is completed with a grade of B or better in each of the courses taken, the student will be admitted to the MS program in Systems Engineering or Computer Engineering, if they apply. The certificate courses taken by students admitted to the program will count towards their master's degrees.

Once admitted to the program, a student will be given three years to complete the program as long as a B average is maintained in the courses taken.