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**CSED 301  Introduction to Programming/CS** (3 Credit Hours)
This course provides an introduction to programming with an overview of other topics in computer science. Outcome: Basic programming skills in a computer language such as VB.NET or Logo that may be suitable for teaching to young programmers; understanding of other fundamentals of how computer hardware and software tools work.

**CSED 317  Social Issues in Computing** (3 Credit Hours)
This course covers social, legal, and ethical issues commonly arising in key areas related to computing technologies.

**Outcomes:**
Understanding of laws and issues in areas such as privacy, encryption, freedom of speech, copyrights and patents, computer crime, and computer/software reliability and safety; understanding of philosophical perspectives such as utilitarianism versus deontological ethics and basics of the U.S. legal system

**CSED 330  Tech Admin PC Clusters** (3 Credit Hours)
This course covers technical knowledge and practical skills needed to administer a PC cluster in a school or similar environment, focusing on security issues such as firewalls, viruses, and external and internal attacks, and also covers server and LAN configuration and storage management. Outcome: Students will be familiar with the procedures and design tradeoffs involved in configuring a computer lab.

**CSED 331  Management of PC Cluster** (3 Credit Hours)
Further topics in management of school-based PC clusters are covered: purchasing, staffing, troubleshooting, configuration, copyright and software licensing, facilities and resource management, use of IT outsourcing, acceptable-use policies, account management, content filtering, and reliability. Outcome: Students will be familiar with issues and conflicts, both technical and social, that arise in school lab management, and with ways of addressing them.

**CSED 343  Introduction to Computer Networks** (3 Credit Hours)
How a computer network is put together, from lowest to highest levels. TCP/IP protocols and the construction of the internet; LAN protocols such as Ethernet and ATM; internetworking protocols such as IP; transit protocols such as TCP and UDP; congestion and security issues.

**CSED 401  Intro to Programming & CS** (3 Credit Hours)
This course provides an introduction to programming with an overview of other topics in computer science. Outcome: Basic programming skills in a computer language such as VB.NET or Logo that may be suitable for teaching to young programmers; understanding of other fundamentals of how computer hardware and software tools work.

**CSED 430  Tech Admin of PC Cluster** (3 Credit Hours)
This course covers technical knowledge and practical skills needed to administer a PC cluster in a school or similar environment, focusing on security issues such as firewalls, viruses, and external and internal attacks, and also covers server and LAN configuration and storage management. Outcome: Students will be familiar with the procedures and design tradeoffs involved in configuring a computer lab.

**CSED 431  Management of PC Cluster** (3 Credit Hours)
Further topics in management of school-based PC clusters are covered: purchasing, staffing, troubleshooting, configuration, copyright and software licensing, facilities and resource management, use of IT outsourcing, acceptable-use policies, account management, content filtering, and reliability. Outcome: Students will be familiar with issues and conflicts, both technical and social, that arise in school lab management, and with ways of addressing them.