

# COLLABORATIVE AND COOPERATIVE LEARNING FOR THE COMPUTER SCIENCE CLASSROOM TUTORIAL

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## **One-half day Tutorial**

### **ABSTRACT /DESCRIPTION**

This workshop will cover several aspects of Collaborative /Cooperative Learning in the Computer Science classroom. It will include 1) learning assumptions, 2) goals for education, 3) collaborative learning approaches, 4) traditional versus cooperative learning groups, 5) how to implement collaborative/cooperative learning in the classroom, and 6) commonly used cooperative learning techniques. Participants will be “practicing what they preach” as they learn various techniques of how to incorporate collaborative/cooperative learning techniques in their classrooms.

### **EXPECTED OUTCOME**

The objective is to help faculty understand the various collaborative/cooperative techniques and be able to carry them back to the classroom. Participants will understand the concepts of collaborative/cooperative learning, learn several techniques for incorporating these into the classroom and prepare several lessons using a chosen technique. Each participant will take away actual activities to use in their own classroom settings.

### **MATERIALS PROVIDED**

Participants will receive handouts concerning general collaborative/cooperative learning techniques, detailed descriptions of several techniques that can be used and other notes.

### **PRESENTER**

Dr. Rutherford is currently the Department Chair for Information Technology at Southern Polytechnic State University, Marietta, GA, USA. Dr. Rutherford has previously been Department Head of Computer Science at the same school. Dr. Rutherford established the graduate program in computer science, and created and developed the undergraduate and graduate programs in information technology. Dr. Rutherford has given several workshops and tutorials on collaborative and cooperative learning both at conferences and stand-alone workshops.