Activities of the ACM Two-Year College Education Committee

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Abstract:
This poster presentation showcases the accomplishments of the Two-Year College Education Committee (TYCEC), highlights the 2005 – 2006 curricular activities, and illustrates a typical two-year college education model in North America.

Categories and Subject Descriptors:
K.3.2 [Computers and Education] Computer and Information Science Education – *Curriculum.*

General Terms
Standardization.

Keywords
Curriculum Guidelines.

INTRODUCTION
The Two-Year College Education Committee is a standing committee of the ACM Education Board, and for the past two decades has authored several curriculum guidelines for the two-year college education arena in all aspects of computing – Computer Science (CS), Information Systems (IS), Computer Engineering Technology (CET), Software Engineering (SE), and Information Technology (IT).

Groundbreaking in its day, and garnering widespread attention in the associate-degree granting institutions, the IT curriculum guidelines *Programs to Support Computing in a Networked Environment* has served its audience well since its publication in 2000. However, as frequently happens with computing curricula, the report is now in need of updating and revision. With the recent publication of *Curriculum Guidelines for Undergraduate Degree Programs in Computer Engineering*, there is renewed interest in updating the associate-level guidelines in Computer Engineering Technology. The ACM TYCEC is in the process of updating both of these curricular guidelines in 2006. If you are interested in participating in either of these current curricular activities, please send Robert Campbell an e-mail message.

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In 2005, the Committee published: *Guidelines for Associate-Degree Transfer Curriculum in Software Engineering.* This curricular report provides guidelines for a software engineering curriculum track within the computer science degree program at institutions granting two-year, associate degrees. This report focuses on a program of study designed for students intending to transfer into baccalaureate software engineering programs, and is specifically designed to promote articulation between the associate and the baccalaureate degrees.

In 2004, the Committee published: *Guidelines for Associate-Degree Programs in Information Systems*. This report provides a framework for the development, support, and updating of associate-degree programs in the computing discipline of Information Systems. These guidelines will assist colleges in educating potential IS workers with technical computing competencies, as well as necessary workplace skills.

In 2002, the Committee published: *Guidelines for Associate-Degree Programs in Computer Science.* This report provides guidelines for computer science programs in associate-degree granting institutions. A principle focus is placed on programs designed for students intending to transfer into baccalaureate programs, accompanied by deliberate guidelines designed to facilitate matters of articulation.

In 2000, the Committee published: *Guidelines for Associate-Degree Programs to Support Computing in a Networked Environment.* This report provides guidance to colleges who are developing associate degree programs in Information Technology. Such programs will produce workers who are productive, competent, able to work independently, and who can manage time effectively in entry-level positions that span a wide range of computing environments requiring support personnel.

All curriculum guidelines for associate-degree programs developed by the ACM TYCEC are available online at www.acmtyc.org.