

# Curricular Resources from the ACM Two-Year College Education Committee

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## ABSTRACT

This poster presentation highlights the curricular resources available from the Two-Year College Education Committee (TYCEC), a standing committee of the ACM Education Board. This Committee is charged with developing computing curricula for associate-degree granting institutions. To this end, the TYCEC has published curriculum guidelines in each of the computing sub-disciplines: Computer Science, Information Technology, Computer Engineering, Information Systems, and Software Engineering.

## Categories and Subject Descriptors

K.3.2 [Computers and Education] Computer and Information Science Education – *Curriculum*.

**General Terms:** Standardization.

**Keywords:** Curriculum Guidelines.

## INTRODUCTION

The ACM Two-Year College Education Committee has published curriculum guidelines in each of the computing sub-disciplines for associate-degree granting institutions. The sub-disciplines are Computer Science, Information Technology, Computer Engineering, Information Systems, and Software Engineering.

The *Guidelines for Associate-Degree Programs in Computer Science* provide a framework for computer science programs in associate-degree granting institutions. This curriculum details the computer science foundation that underpins studies across many of the computing sub-disciplines. This report facilitates inter-institution articulation and seamless transfer of students into the upper division of baccalaureate programs.

The *Guidelines for Associate-Degree Programs to Support Computing in a Networked Environment* will provide guidance to colleges who are developing associate degree programs in

Information Technology. Such programs produce workers for entry-level support positions that span a wide range of computing environments, including networking, web technologies and desktop support. In 2007, the ACM TYCEC is developing new guidelines for Information Technology curricula; interested parties are urged to communicate via the TYCEC website.

The *Guidelines for Associate-Degree Transfer Curriculum in Computer Engineering* detail a program of study designed for students intending to transfer into baccalaureate programs awarding computer engineering degrees. The *Guidelines* are specifically designed to promote articulation by aligning computer engineering curricula in two-year colleges with those offered in baccalaureate institutions.

The *Guidelines for Associate-Degree Programs in Information Systems* detail a framework for the development, support, and revision of associate-degree programs in the business-oriented Information Systems curriculum. This report assists colleges in educating potential IS workers with technical computing and business competencies, as well as necessary workplace skills.

The *Guidelines for Associate-Degree Transfer Curriculum in Software Engineering* detail a software engineering curriculum track within the computer science degree program at associate-degree granting institutions. This report focuses on a program of study designed for students intending to transfer into baccalaureate programs awarding software engineering degrees. The *Guidelines* are specifically designed to promote articulation by aligning the software engineering curriculum for two-year colleges with that in baccalaureate institutions.

An overview of the computing sub-disciplines and their associated curriculum guidelines, which were developed under the auspices of the ACM Two-Year College Education Committee, are available online at [www.acmtyc.org](http://www.acmtyc.org).