Computer Science Curricular Guidance for Associate-Degree Transfer Programs

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After two years of intense curriculum development effort, the ACM CCECC (Committee for Computing Education in Community Colleges) published Computer Science Curricular Guidance for Associate-Degree Transfer Programs with Infused Cybersecurity, known as CSTransfer2017. Based on CS2013, this guidance was specially designed to aid in the smooth transfer from associate degrees to baccalaureate degrees.

The curriculum contains 17 of CS2013’s 18 knowledge areas, and a variety of knowledge units appropriate in the first two years of a computer science degree. The guidance comprises over 200 learning outcomes, 64 of which are infused with cybersecurity, along with a three-tiered assessment rubric using measurable verbs from Bloom’s Revised Taxonomy. In addition to the CSTransfer2017 task group consisting of 20 community college educators, input from both two- and four-year educators was collected via surveys administered to a global audience, as well as two rounds of public review and comment on drafts of the guidance.

Examples of degree and certificate programs that align with CSTransfer2017 are part of a growing repository hosted on the CCECC website, \texttt{ccecc.acm.org}. These program examples demonstrate the adaptability of this competency-based curriculum approach to a variety of computing programs. The CCECC invites institutions to highlight their computer science degree program by submitting a program example at \texttt{ccecc.acm.org/correlations}.