

CTE PROGRAM OF STUDY: C-STEM Information and Communication Technologies

Industry Sector:ICT

Software and Systems Development

Levels	Grade	CTE/CS Courses	English Language Arts	Math	Social Science	Science	Other Required Courses or Recommended Electives			Dual and/or Concurrent Enrollment	Articulated Courses (College Credit for HS Classes)	
		Elementary	TK	Computer Science with Robotics for Transitional Kindergarten	English	Mathematics with Robotics for Transitional Kindergarten		Computer Science with Robotics for Transitional Kindergarten Engineering Design with Robotics for Grades TK-2				
K	Computer Science with Robotics for Kindergarten		English	Mathematics with Robotics for Kindergarten		Computer Science with Robotics for Kindergarten Engineering Design with Robotics for Grades TK-2						
Recommended Activities: RoboBlocky												
1	Computer Science with Robotics for Grade 1		English	Mathematics with Robotics for Grade 1		Computer Science with Robotics for Grade 1 Engineering Design with Robotics for Grades K-2						
Recommended Activities: RoboBlocky												
2	Computer Science with Robotics for Grade 2		English	Mathematics with Robotics for Grade 2		Computer Science with Robotics for Grade 2 Engineering Design with Robotics for Grades K-2						
Recommended Activities: RoboBlocky												
3	Computer Science with Robotics for Grade 3		English	Mathematics with Robotics for Grade 3		Computer Science with Robotics for Grade 3 Engineering Design with Robotics for Grades 3-5						
Recommended Activities: RoboPlay Competition												
4	Computer Science with Robotics for Grade 4		English	Mathematics with Robotics for Grade 4		Computer Science with Robotics for Grade 4 Engineering Design with Robotics for Grades 3-5						
Recommended Activities: RoboPlay Competition												
5	Computer Science with Robotics for Grade 5	English	Mathematics with Robotics for Grade 5		Computer Science with Robotics for Grade 5 Engineering Design with Robotics for Grades 3-5							
Recommended Activities: RoboPlay Competition												
6	Computer Science with Robotics for Grade 6 Introduction to Robotics (Ch/C/C++)	English	Mathematics with Robotics for Grade 6		Computer Science with Robotics for Grade 6 Engineering Design with Robotics for Grades 7-8 Introduction to Robotics (Ch/C/C++)							

CTE Courses

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Advanced Computer Programming in C

DRAFT

[Redacted Name]

Comments:
 • Prerequisite requirements may vary by school and may alter the sequence of courses above.
 • This template is based upon requirements for CSU transfer pattern and assumes that all basic skills (remedial) coursework is completed.
 • Where there are course numbers identified, the course number references the CID course. Course content for these courses may be found at www.cid.net/descriptors. Per Title 5, students may only receive credit for articulated high school work upon completion of a credit by exam mechanism that ensures that the objectives of the community college course have been met. Completion of an articulated course in high school does not guarantee receipt of credit at the community college.



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plate assumes students
npleted high school exit
ms and basic skills
work. Local graduation
irements may vary.

Legend:

Course is recommended by
industry experts

Course is articulated, see
comments below

Course may be taken via
concurrent or dual
enrollment

Indicates a course that may
satisfy multiple
requirements

