	СТЕ	PROGRAM OF STUDY:	C-STEM Info	ormation and Comn	nunication Techr	nology (ICT)	Industry Sector: In Career Pathway: S			ū		
Levels	Grade	CTE Courses	English Language Arts	Math	Social Science	Science	Other Required Recommended		Dual and/or Concurrent Enrollment	ent Courses		
M	7	Robotics and Video Production	English	Math 7 with Computing	World History / Geography	Life Sciences	Physical Education					
d d I e	Recomm 8	Introduction to Computer Programming or Introduction to Physical Computing and Making	English	Math 8 with Computing	US History / Geography	Life Sciences	Physical Education					
	Recomm	ended Activities: RoboPlay \	/ideo Competition		petition, GIRL Camp							
s	9	Computer Programming for Solving Applied Problems	English	Algebra I with Computing and Robotics IM1 with Computing and Robotics		Physical Science with Computing and Robotics	Physical Education				This template assumes	
e c	Recomm	mended Activities: RoboPlay Video Competition, RoboPlay Challenge Competition, GIRL Camp									students have completed high school exit exams and basic	
o n d	10	Computing with Robotics or Physical Computing with Pi and Arduino	English	Geometry with Computing and Robotics. IM2 with Computing and Robotics	World History	Biological Science	Physical Education				skills coursework. Local graduation requirements may vary.	
r											Legend:	
y -	11	AP Computer Science Principles	English	Algebra II with Computing and Robotics. IM3 with Computing and Robotics	US History		Foreign Language I or Visual & Performing Arts ★ (Districts may allow CTE to fulfill this)				Course is recommended by industry experts	
H S			ctivities: RoboPlay Video Competition, RoboPlay Challenge Competition, GIRL Camp, Job Shadowing, Work Based Learning, Service Based Learning, Mentorships, Career Technol tion (CTSOs), Maker Fair, Hacker Space. Seek industry certifications such as Microsoft, CompTIA, CIW, CISCO, etc. Add to digital portfolio.					eer Technology	# Course is articulated, see comments below			
N a m e	12	Principles and Design of Cyber-Physical Systems or Physical Computing with Pi and Arduino		AP Statistics or Pre-Calculus (with Computing and Robotics)	Government(semester) Economics (semester)	Physics with Computing and Robotics			STAT120: Statistics ★		Course may be taken via concurrent or dual enrollment	
	Recommended Activities: RoboPlay Video Competition, RoboPlay Challenge Competition, GIRLCamp, Job Shadowing, Work Based Learning, Service Based Learning, Mentorships, Career Te Student Organization, Maker Fair, Hacker Space, Seek industry certifications such as Microsoft, CompTIA, CIW, CISCO, etc. Enroll at Community College. Add to digital portfolio.							er Technology	Indicates a course that may satisfy multiple requirements			
		CTE Courses	Add	itional and Optional Cou	irses	Genera	al Education Requirer	ments		Occupations Relati	ng to this Pathway	
P O S	13	Acct 110:Financial Acct Acct 120:Managerial Acct	For completion of Local AS/AA Degree (total Units)	For completion of Achievement Certificate (total units)	For completion of Skills Certificate (total Units)	Area A English Language Communication & Critical Thinking (9 units)	Area B Scientific Study & Quantitative Reasoning with 1 lab (9 units)	Area C Arts & Humanities (9 units)	Careers requiring a high school diploma or equivalent		Careers requiring a BA / BS degree	
T S		ECON121: Microeconomics				English composition	Mathematics ⊙	Arts	Customer Service Representative Computer Technician (with certifications) Networking Technician Careers requiring some post secondary		Computer Info Systems Managers Computer Hardware Engineers Computer Programmers Business Systems Analysts Database Administrators Web Developer Applications Developer	
E C O		Intro to Programming (ITIS 190) and				Oral Communication	Physical Science	Humanities				
N D A		Intro to Database Management Systems (ITIS170)				Critical Thinking	Life Sciences	Arts or Humanities (recommended foreign language)				
R Y	14	Select 1 from: Business Statistics(STAT120) or		NPL		Area D Social Sciences (9units)	Area E Lifelong Learning & Self Development (3 units)	requirements are counted for credit in more	Computer Support Specialists Help Desk Specialists System Administrators Software and Hardware Salesperson Bookkeeper E Commerce Small Business Entrepreneur		Careers requiring a BA/BS + (beyond the scope of this template)	
- C o		Finite Math(MATH130) Select 1 from:				US History Political Science	Any course	than one area, i.e. double counted, students must complete			Computer & Information Systems Manager Chief Information Officer Chief Technology Officer	
I I e		Business Information Systems (BUS140) or Computer Information Systems (ITIS120)				(American Government) INICTOECONOMICS or Macroeconomic	recommended in this area	additional transferrable units to result in a cummulative			For students interested in attending a UC Campus, be	
g e		Suggested Majors:	Business, with a	a concentration in Mana	gement Information	- 0	s Information System	total of 60 units			aware that courses included on the CSU GE pattern are not always consistent with	
N a m	15	Industry recognized certifications, Credentials, licenses, or apprenticeships COMP TIA, Microsoft, CISCO, etc. as well college certificate or degree completion related to this pathway Comments: • courses with this color are UC Davis C-STEM courses. One or more of C-STEM courses can be replaced by other equivalent or relevant courses.							Network Engineer Business Programmer Social Media/Marketing Specialist		IGETC GE Pattern for UC Admission Statement Cases PAT HWAY'S Creating School to College Articulation	
е	16											
		 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.c-id.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 										