

# UC DAVIS C-STEM AND UC RIVERSIDE EXTENSION PARTNERSHIP

PROVIDING CS CREDENTIAL COURSES FOR EDUCATORS ACROSS CALIFORNIA

## Credential Authorizations in Computer Science Education



### WHAT YOU'LL LEARN

How computing systems and digital devices function, and how they have contributed to various disciplines

Best practices in integrating CS into STEAM teaching

Smooth transition from blockly-based programming to text-based programming; functions, strategies, operations, and more

#### INTRODUCTORY SUPPLEMENTARY AUTHORIZATION



**TOTAL UNITS**  
15



**TUITION**  
\$3,675



**COMPLETION TIME**  
12 months



**FORMAT**  
Online, In person, or  
Custom at your school site

#### SPECIFIC SUPPLEMENTARY AUTHORIZATION



**TOTAL UNITS**  
19



**TUITION**  
\$4,635



**COMPLETION TIME**  
12 months



**FORMAT**  
Online, In person, or  
Custom at your school site

INCLUDES CREDIT AND CREDENTIAL FILING SERVICE

**UCR Extension and UC Davis C-STEM have entered into a partnership to offer the Authorizations in Computer Science as a joint program to educators across the state — North to South!**

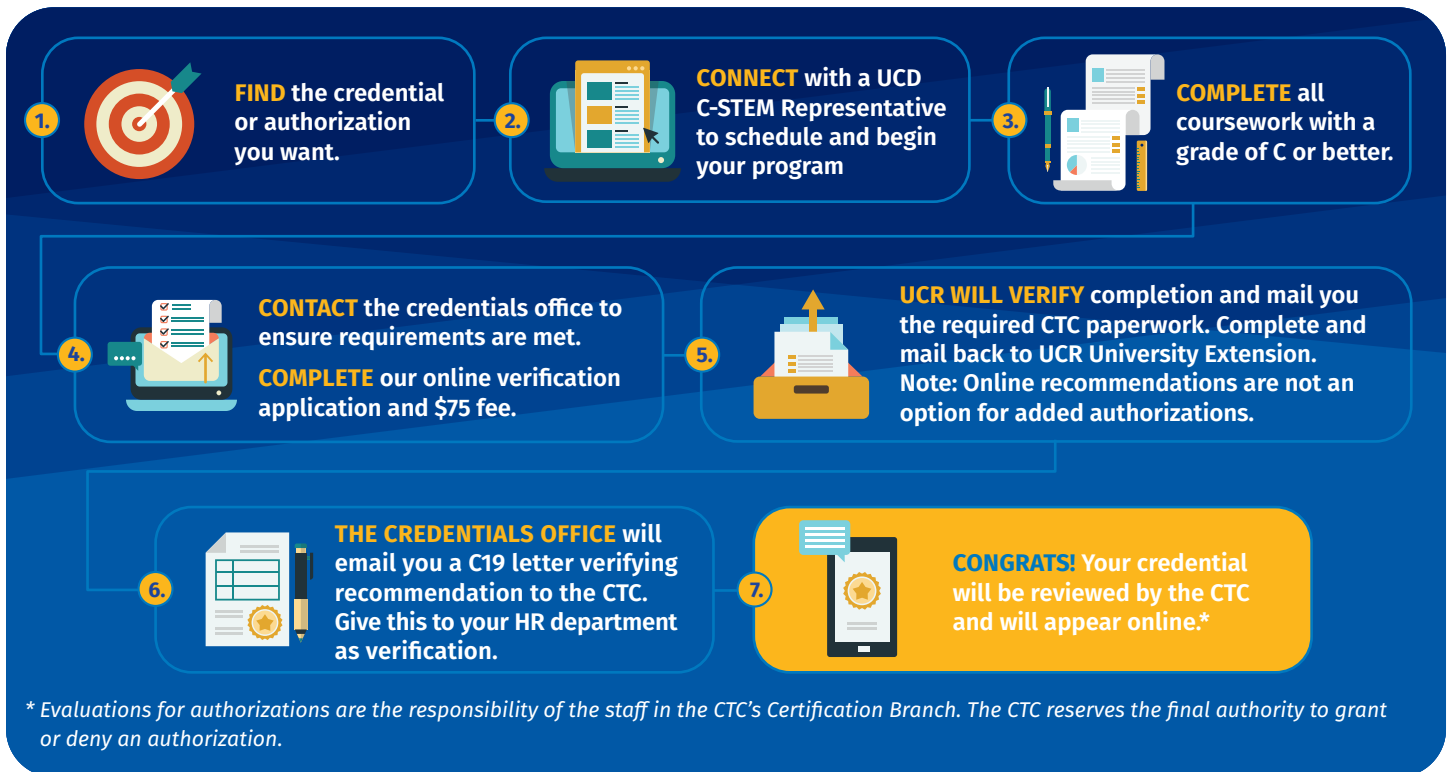
The Introductory Authorization can be issued to classroom teachers who hold a multiple subject credential for teaching in an elementary or middle school setting. The Specific Authorization can be issued to classroom teachers who hold a single subject credential and typically teach in the high school setting. Both authorizations share the same 4 core courses. However, the Specific Authorization includes one additional higher-level computer science course that is intended to strengthen the computer science content knowledge of 9-12th grade teachers.

### BENEFITS OF EARNING A CREDENTIAL

- UC quality curriculum
- Professional endorsements
- Schedule flexibility
- Cohorted model of delivery at your site
- Instruction from experts on integrating CS into STEAM education

## STEPS TO A CTC CREDENTIAL OR AUTHORIZATION

Follow these seven steps and you will be on your way to adding a new credential or authorization to your resume.



## REQUIRED COURSES

INTRODUCTORY SUPPLEMENTARY AUTHORIZATION: 15 units of required coursework with a grade of C or better.	SPECIFIC SUPPLEMENTARY AUTHORIZATION: 19 units of required coursework with a grade of C or better.	UNITS
Introduction to Teaching Computer Science <a href="#">CS X458.01</a>		3
Programming and Integration of CS into STEAM Teaching <a href="#">CS X458.02</a>		4
Development of Integrated CS and STEAM Curriculum with Physical Computing <a href="#">CS X458.03</a>		4
Computer Programming in C <a href="#">CS X458.04</a>		4
Data Structures and Software Design <a href="#">CS X458.05</a> (for Specific Supplementary only)		4

## ARE YOU READY FOR YOUR NEXT STEP?

Teachers and District Representatives — please visit <http://c-stem.ucdavis.edu/cs> and contact **UCD C-STEM** to get started.

Professional development tailored to your school and district setting is also available. If your organization would like to host a C-STEM Professional Development workshop for STEM teachers in your area, please complete an interest form here: <http://c-stem.ucdavis.edu/contact-us/>.