



University Extension  
Professional Studies

# EDUCATE FUTURE TECH PRODIGIES

## Specific Supplementary Authorization in Computer Science Education



**Increase your reach in education with an authorization in computer science.** STEM education continues to be on the rise, providing opportunity for teachers to advance their knowledge and students to gain valuable skills to provide them with an edge-up in the workforce.

Computer science is a vast area, offering opportunities across a span of industries, depending on your specific skillset. This online program will prepare you to teach a comprehensive computer science curriculum, including computational thinking, computing practice and programming, software design, data structure and algorithms. Add this Specific Supplementary Authorization to your Single Subject credential. When added to a Single Subject credential, it authorizes the holder to teach computer science curriculum in preschool, K-12, and classes organized primarily for adults. Make your mark in STEM education and help pave a path of success for our students.

### WHAT YOU'LL LEARN

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

Best practices in problem solving techniques and fundamental computing concepts including decomposition, data representation and algorithms

High-level programming languages and advanced software design



**TOTAL UNITS**  
19



**TUITION**  
\$2,925



**COMPLETION TIME**  
12 months



**FORMAT**  
Online



**CONNECT WITH A COACH**  
[extension.ucr.edu/coach](https://extension.ucr.edu/coach)

## Specific Supplementary Authorization in Computer Science Education



### BENEFITS OF EARNING A CERTIFICATE

There are several reasons why, teaching credential in hand, you might be considering continuing your studies. An upgraded education section on your resume can open the door to a new career, or, if you're already working, lead to a promotion and a higher salary. While you're working, going back to school is an excellent way to stay current in rapidly changing fields, or, if you've been away from the workforce for a while, to quickly get caught up in the latest trends, concepts, and advances.

While there are as many paths to follow, as there are reasons to follow them when approaching continuing education, there is enormous value in terms of time, financial investment, and personal flexibility while gaining practical training from working professionals in your industry that extends beyond the theory of the classroom and into the real world.

#### KEY BENEFITS INCLUDE:

- UC quality curriculum
- Professional endorsements
- Schedule flexibility
- Variety of courses and programs
- Instruction from professional leaders in the industry

### PAY AS YOU GO



Pay per individual course as you register.

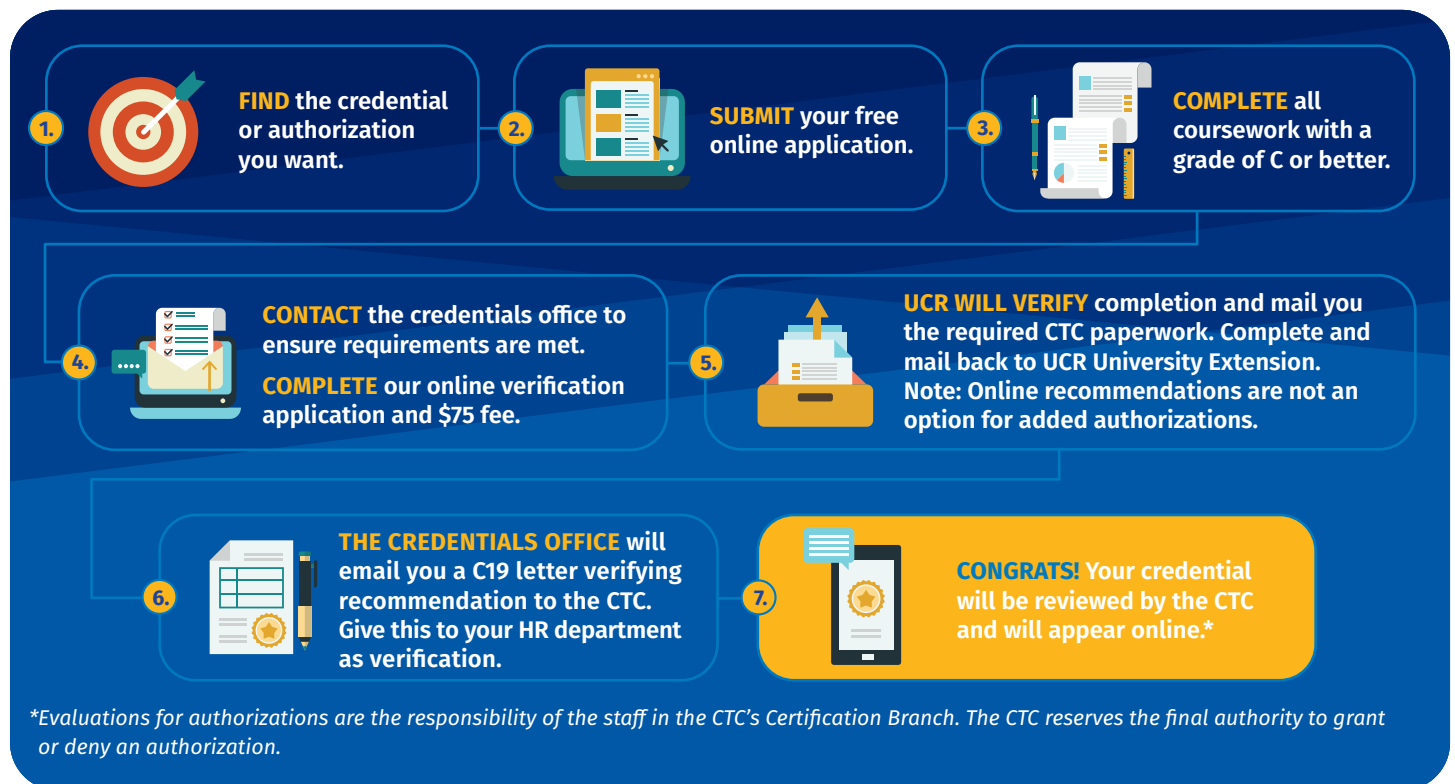
AVERAGE COURSE TUITION

**\$595-645 PER (4 UNIT) COURSE**

\*Learn more about [tuition assistance](#).

### 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.



\*Evaluations for authorizations are the responsibility of the staff in the CTC's Certification Branch. The CTC reserves the final authority to grant or deny an authorization.



# Specific Supplementary Authorization in Computer Science Education



## STUDY PLAN

Our certificate programs are designed to be flexible, allowing you the option to take just a few courses or earn the complete certificate. If choosing to complete the certificate, we recommend you get the most out of your experience by following the suggested completion path below.

Required Courses		
QUARTER		UNITS
1	Introduction to Computational Thinking and Programming <a href="#">CS X458.02</a>	4
2	Programming and Design I <a href="#">CS X458.03</a>	4
3	Programming and Design II <a href="#">CS X458.04</a>	4
4	Data Structures and Algorithms <a href="#">CS X458.05</a>	4
	Impacts of Computing and Communication Devices <a href="#">CS X458.01</a>	3

## ARE YOU READY FOR YOUR NEXT STEP?

Schedule an appointment with a **Student Success Coach** to get started. [extension.ucr.edu/coach](http://extension.ucr.edu/coach)



\*For a full list of policies and procedures, check our [website](#).