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.

**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**: $3,000
- **UCR ACADEMIC CREDIT FEE**: $600*
- **UCR CREDENTIAL FILING FEE**: $75*
- **COMPLETION TIME**: 12–24 months
- **FORMAT**: Online, In-person, or Custom at your school site

**SPECIFIC SUPPLEMENTARY AUTHORIZATION**

- **TOTAL UNITS**: 19
- **TUITION**: $3,800
- **UCR ACADEMIC CREDIT FEE**: $760*
- **UCR CREDENTIAL FILING FEE**: $75*
- **COMPLETION TIME**: 12–24 months
- **FORMAT**: Online, In-person, or Custom at your school site

**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

* Required to be paid to UCR if earning the Supplementary Authorization

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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.

1. **FIND** the credential or authorization you want.
2. **CONNECT** with a UCD C-STEM Representative to schedule and begin your program.
3. **COMPLETE** all coursework with a grade of C or better.
4. **CONTACT** the credentials office to ensure requirements are met. **COMPLETE** our online verification application and $75 fee.
5. **UCR WILL VERIFY** completion and mail you the required CTC paperwork. Complete and mail back to UCR University Extension. Note: Online recommendations are not an option for added authorizations.
6. **THE CREDENTIALS OFFICE** will email you a C19 letter verifying recommendation to the CTC. Give this to your HR department as verification.
7. **CONGRATS!** Your credential will be reviewed by the CTC and will appear online.*

* 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.

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Teaching Computer Science <strong>CS X458.01</strong></td>
<td>3</td>
</tr>
<tr>
<td>Programming and Integration of CS into STEAM Teaching <strong>CS X458.02</strong></td>
<td>4</td>
</tr>
<tr>
<td>Development of Integrated CS and STEAM Curriculum with Physical Computing <strong>CS X458.03</strong></td>
<td>4</td>
</tr>
<tr>
<td>Computer Programming in C <strong>CS X458.04</strong></td>
<td>4</td>
</tr>
<tr>
<td>Data Structures and Software Design <strong>CS X458.05</strong> (for Specific Supplementary only)</td>
<td>4</td>
</tr>
</tbody>
</table>

ARE YOU READY FOR YOUR NEXT STEP?

Teachers and District Representatives — please visit [http://c-stem.ucdavis.edu/cs](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/](http://c-stem.ucdavis.edu/contact-us/).

*For a full list of policies and procedures, check our website.