**Computer Science Education Certificate**

Department of Computer Science, College of Information Science & Technology; Department of Teacher Education, College of Education, Health, and Human Sciences

**Vision Statement**

This graduate certificate is intended for educators seeking to extend their knowledge and skills in the teaching computational thinking, computer science, and information technology. In completing program coursework, certified Nebraska teachers will also meet requirements for the IT supplemental endorsement. Teachers from other states should consult with their corresponding state officials to consider local credentialing applicability. Prior background in computer science is not required.

**Program Contact Information**

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Program Website (http://www.unomaha.edu/college-of-information-science-and-technology/computer-science-education/graduate/csed-grad-cert.php)

**Other Program Related Information**

Students who hold current Nebraska teaching certificates are eligible for the IT supplemental endorsement upon completing all required courses except CSCI 8010. Those who seek to earn only the IT supplemental endorsement should apply for this graduate certificate program.

Grades of ‘C’ or lower cannot be used when applying for the State of Nebraska IT supplemental endorsement.

All students must apply for completion of the graduate certificate through MavLINK. Please see the Academic Calendar for deadlines on applying.

**Admissions**

General Application Requirements and Admission Criteria (http://catalog.unomaha.edu/graduate/admission/)

**Program-Specific Requirements**

**Application Deadlines (Spring 2023, Summer 2023, and Fall 2023)**

- Fall: July 1
- Spring: December 1
- Summer: April 1

**Other Requirements:**

- International students who do not intend to teach in the U.S. may be eligible for admission.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, OR a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet minimum language proficiency score requirement in order to be considered for admission.

- **Statement of Purpose** addressing the following:
  - Describe your academic and professional journey. Discuss your background personal and professional experiences, and your current educational context. Be sure to explain your motivation for pursuing this program at this point in your career.
  - In order to advise you on initial coursework, please describe any prior formal or informal training you have completed in computer science, and information technology. This includes, but is not limited to, programming/coding, web design, systems administration, computing networking, databases, and computer applications.
  - Finally discuss your post-certificate degree plans. How will the certificate in computer science education contribute to your future endeavors related to P-12 students, educators, administrators or other community stakeholders?

- **Resume:** Professional Resume or Curriculum Vitae

- **UNO College of Education, Health, and Human Science’s Personal and Professional Fitness form**

- **A copy of your current teacher certification (if applicable)**

- **Applicants with International Transcripts:** Any applicant to this program who has completed undergraduate or graduate coursework at an international higher education institution outside of the United States may submit transcripts and degree certificates (with an English translation) in lieu of a course-by-course transcript evaluation from World Education Services (https://www.wes.org/), Educational Credential Evaluators (https://www.ece.org/) (ECE), or Educational Perspectives (https://www.edperspective.org/). This graduate program will conduct an in-house credential evaluation of the transcript(s).
  - Each applicant must meet the minimum TOEFL, IELTS, or PTE score requirements. TOEFL scores acceptable for admission are: Paper-based TOEFL: 550, Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 105.

  - **State of Nebraska**
    - The State of Nebraska requires applicants to have a command of oral and written English.
    - The State of Nebraska does not accept course-by-course transcript evaluations. Applicants who have completed their education in a country outside of the United States must submit official transcripts and degrees.

  - **Foreign Countries:** Applicants from countries outside of the United States may submit their official transcripts and degrees. The State of Nebraska does not conduct course-by-course transcript evaluations. Applications will be evaluated based on the overall academic record.

- **Statement of Purpose**

  - Explain your educational background, professional experiences, and your motivation for pursuing this program at this point in your career.

- **Proposed Program of Study:**

  - Describe your proposed program of study, including the courses you plan to take and how they will support your future career objectives.

  - **Field of Study:**
    - Knowledge and skills in the teaching computational thinking, computer science, and information technology. In completing program coursework, applicants will gain proficiency in areas such as programming, coding, and web design.

  - **Coursework:**
    - Students must complete a minimum of 18 credits in courses that focus on computational thinking, computer science, and information technology.

  - **Doctoral Degree:**
    - Students may pursue the Teacher Education Doctoral degree in conjunction with the Computer Science Education Certificate.

- **Professional Fitness:**

  - Applicants must complete the UNO Professional Fitness form upon entering the program.

- **Degree Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TED 8006</td>
<td>SPECIAL METHODS IN THE CONTENT AREA</td>
<td>3</td>
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<tr>
<td>CSTE 8020</td>
<td>EXPLORING COMPUTER SCIENCE FOR TEACHERS</td>
<td>3</td>
</tr>
<tr>
<td>or CSTE 8030</td>
<td>COMPUTER SCIENCE PRINCIPLES FOR TEACHERS</td>
<td>3</td>
</tr>
<tr>
<td>CSTE 8040</td>
<td>OBJECT ORIENTED PROGRAMMING FOR TEACHERS</td>
<td>3</td>
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<td>CSCI/CYBR 8366</td>
<td>FOUNDATIONS OF CYBERSECURITY</td>
<td>3</td>
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<td>CSCI 8836</td>
<td>INTRODUCTION SOFTWARE ENGINEERING</td>
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<td>or CSCI 8256</td>
<td>HUMAN COMPUTER INTERACTION</td>
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<tr>
<td>or CSCI 8266</td>
<td>USER EXPERIENCE DESIGN</td>
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- **Professional Resume or Curriculum Vitae**

- **Applicants with International Transcripts:** Any applicant to this program who has completed undergraduate or graduate coursework at an international higher education institution outside of the United States may submit transcripts and degree certificates (with an English translation) in lieu of a course-by-course transcript evaluation from World Education Services (https://www.wes.org/), Educational Credential Evaluators (https://www.ece.org/) (ECE), or Educational Perspectives (https://www.edperspective.org/). This graduate program will conduct an in-house credential evaluation of the transcript(s).

- **UNO reserves the right to require a course-by-course evaluation from WES, ECE, or Educational Perspectives if the program is unable to complete an evaluation or should there be any questions or concerns about the documentation that is received. The applicant will be notified by the individual program if an external course-by-course evaluation is required.**

- **‘Note: If admitted, official transcripts and degree certificates (with an English translation)/official course-by-course transcript evaluation, and any applicable official exam scores are required.**
Completion of the Certificate
During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. Information can be found here (http://www.ses.unomaha.edu/registrar/graduate.php). If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- “Incomplete” and “NR” grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar’s Office no later than the close of business on the fifteenth working day following the end of a semester.

Awarding of Graduate Certificates
The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.