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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bdorn@unomaha.edu

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 2022, Summer 2022, and Fall 2022)
• 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 computing, 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/) (WES), 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.

Degree Requirements

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<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>
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<tr>
<td>or CSTE 8030</td>
<td>COMPUTER SCIENCE PRINCIPLES FOR TEACHERS</td>
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<tr>
<td>CSTE 8040</td>
<td>OBJECT ORIENTED PROGRAMMING FOR TEACHERS</td>
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<tr>
<td>CSCI/CYBR 8366</td>
<td>FOUNDATIONS OF CYBERSECURITY</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 8836</td>
<td>INTRODUCTION SOFTWARE ENGINEERING</td>
<td>3</td>
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<tr>
<td>or CSCI 8256</td>
<td>HUMAN COMPUTER INTERACTION</td>
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<td>or CSCI 8266</td>
<td>USER EXPERIENCE DESIGN</td>
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<td>CSCI 8010</td>
<td>FOUNDATIONS OF COMPUTER SCIENCE</td>
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Total Credits: 18