Computer Science Education Certificate

Computer Science Education Certificate

Department of Computer Science and Department of Teacher Education, College of Information Science and Technology and College of Education

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. 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.

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

Admissions

Application Deadlines

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

Program Specific Requirements:

- A copy of your current teacher certification (if applicable)
- 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-Master’s degree plans. How will the MS in Computer Science Education contribute to your future endeavors related to P-12 students, educators, administrators or other community stakeholders?
- Professional Resume or Curriculum Vitae

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>TED 8006</td>
<td>SPECIAL METHODS IN THE CONTENT AREA</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 INFORMATION ASSURANCE</td>
<td>3</td>
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<td>CSCI 8836/8256</td>
<td>INTRODUCTION SOFTWARE ENGINEERING</td>
<td>3</td>
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<tr>
<td>CSCI 8010</td>
<td>FOUNDATIONS OF COMPUTER SCIENCE</td>
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<td>Total Credits</td>
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• International students who do not intend to teach in the U.S. may be eligible for admission.
• International students seeking admission to this program must have a minimum TOEFL score of 550 (paper), 213 (computer-based), 80 (internet-based), 6.5 IELTS, or 53 PTE.
• UNO College of Education's "Personal and Professional Fitness Form"