

Computer Science Endorsement Pathway



Statewide Need – Computer Science

- Chapter 979 of the Public Acts of 2022, now codified in Tenn. Code Annotated Title 49, relative to computer science education, expanded computer science education in Tennessee.
- Starting in the 2024-25 school year, all middle schools and high schools in Tennessee will provide computer science courses. Computer science will also be integrated into elementary school content through the computer science standards approved by SBE.
- Middle schools will provide computer science courses for at least one grading period during a student's middle school career.
- High schools will offer at least one high school credit of Computer Science.
- Approximately 1,000+ computer science teachers needed for the 2024–25 school year.



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Policy Overview – Computer Science

- Chapter 979 of the Public Acts of 2022 requires the department to develop and submit to the SBE a no-cost pathway to the Computer Science K-12 endorsement.
- Proposed revisions to the Educator Licensure Policy 5.502 add a new option for how educators with a valid practitioner-level or professional-level Tennessee teaching license can obtain the computer science endorsement through an additional endorsement program developed and administered by TDOE.
- **Requirements:** Practitioner-level or professional-level license; successfully complete the Computer Science Endorsement Pathway (CSEP) program developed and administered by TDOE; be recommended by TDOE; and submit qualifying scores on the CSEP final assessment.
- TDOE program required to be aligned to the appropriate Specialty Area Standards identified in the Literacy and Specialty Area Standards Policy 5.505



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CSEP Program Details

- The Computer Science Endorsement Pathway was created in collaboration with the Tennessee STEM Innovation Network, Tennessee Educators, and industry and community partners.
- **Modules include**
 - Content Specific Learning
 - Performance-Based Activities
 - Formative Assessments
 - Work Based Application
 - Submit a lesson plan
 - Collect student work
 - Reflection Components
- **Final Assessment**
 - To receive the endorsement, they must score 80% or higher on the final exam.
 - Crosswalk with Praxis (5651)



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Praxis Crosswalk

Tennessee's CSEP Crosswalk to Computer Science (5651) Praxis Exam

- Technology Applications Core
- Program Design and Development
- Programming Language Topics

Crosswalk of Computer Science Concepts and Computational Thinking Practices

- Framework for K12 CS Education – Five Core Concepts
- AP Computer Science Principles – Seven Big Ideas
- Exploring Computer Science – Three Themes



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CSEP Interest

The department has begun recruitment for the Computer Science Endorsement Pathway (CSEP):

- 1,510 teachers have signed up for CSEP
- 773 teachers enrolled for Spring 2023 Pilot
- 737 teachers enrolled for Fall 2023
- Once Fall 2023 group reaches 800 participants, additional teachers will be placed in the Spring 2024 cohort



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Thank You & Questions

