@CSTANJ

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#CSPDWeek2026

#CompSciNJ

@csteachersorg

New Jersey CSPDWeek

This material is based upon work supported by the National Science Foundation under Award No. 2607763.

Computer Science Endorsement

August 2026

This material is based upon work supported by the National Science Foundation under Award No. 2607763.

Paige Besthoff

Teacher 25+ years

K-12 Computer Science, Robotics

Design Thinking, Gifted and Talented

CSTANJ VP and CSPDWeek Project Manager

CS4NJ Program Manager

CSTA Teaching Excellence Award 2023

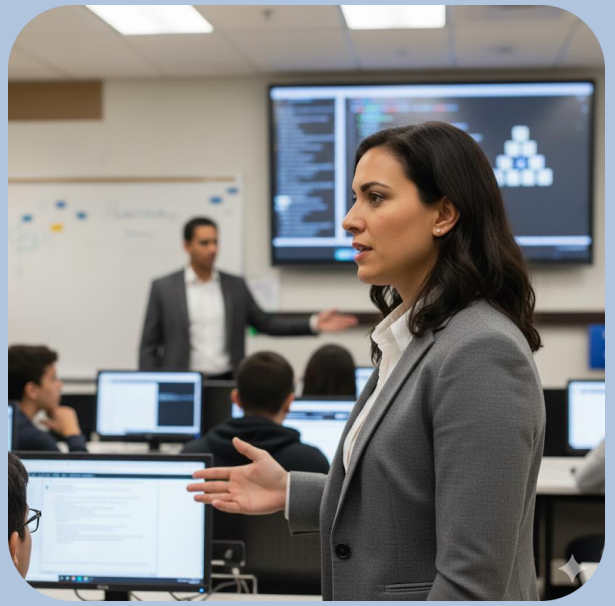
Professional Learning Resource Designer

Ben Isecke

- Taught CS for 18 years, currently at the Bergen County Academies
- Taught a lot of CS classes: intro, AP CS A, processor design and architecture, cybersecurity, computational theory, functional programming, machine learning, and many, many more
- Founding president of the combined CSTANJ. My advocacy within the chapter has focused a great deal on statewide curriculum and licensing.
- Created a prep class for the Computer Science Praxis exam.
- Winner of the 2023 Presidential Award for Excellence in Mathematics and Science Teaching
- Board of Advisors for The Coding School and moderator of the cseducators Stack Exchange

Agenda

- Pathways to CS Teaching Endorsement
- A look at sample Praxis questions
- Applying for Certification
- Questions?



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CS Endorsement

Updated CS Endorsement and Proposed Standard 8 Revisions

On December 3, 2025, the proposed revised NJSLS-Computer Science, Innovation, and Society Standards were presented at the State Board of Education meeting.

📺 Presentation Link: The announcement about certification begins at 2 hours 33 minutes. Stay on for the proposed standards revisions and QSAC.

📄 The proposed standards and agenda are available here

CS Endorsement

Current Regulations (N.J.A.C. 6A:9A & 6A:9B)	Effective After July 1, 2027 (Proposed Amendment)
• N.J.A.C. 6A:9A, New Jersey Educator Preparation Programs: This motion was passed on December 3, 2025. The **CS endorsement** only applies to teachers of Grades 9-12. • Subchapter 9. Instructional Endorsements, N.J.A.C. 6A:9B-9.2 **Authorizations – general**: This section provides the grades or subject(s) that each endorsement authorizes the holder to teach.	The Department proposes to amend N.J.A.C. 6A:9B-9.2(a)7 to state that, **after July 1, 2027, a teacher of computer science in grades nine through 12 must hold the computer science endorsement**, instead of the existing preschool through grade 12. This amendment aligns the paragraph with N.J.S.A. 18A:26-2.26, which requires teachers to hold the computer science education endorsement to teach computer science in grades nine through 12.

Dec 3, 2025
(Passed)

July 1, 2027
(Effective Date)

Current: Holders of other endorsements may teach computer science, as defined in Standard 8.1 of the NJSLS, until July 1, 2027.

After July 1, 2027, a teacher of computer science in grades nine through 12 shall hold a computer science endorsement issued pursuant to N.J.A.C. 6A:9B-10.15.

Routes to Endorsement - Three Options

Endorsement Code: 1820

https://www.nj.gov/education/certification/teachers/

Option One

Candidate who holds out of state teaching licenses

- A minimum of a **bachelor's degree** is required from an accredited college or university.
  - Cumulative Grade Point Average (GPA) Requirement
    - Before September 1, 2016 2.75
    - On or after September 1, 2016* 3.00
      - *There are GPA flexibility rules in place for those who graduated on or after September 1, 2016 where a Praxis test score may offset a GPA that is lower than 3.0, but higher than 2.75.
- **Subject Matter Preparation**
  - A minimum of 30 credits in a coherent sequence in the subject field of computer science. At least 12 of the 30 credits must be at the advanced level of study (junior, senior or graduate level).
  - **Methodology Course** - Three credits, or equivalent, in a methods of teaching computer science course offered by an accredited college or university within 12 months of the initial computer science teaching assignment. The methods course may be included in the 30 credit hours of computer science coursework. All other courses in pedagogy or education are not acceptable.

Option One (continued)

- Praxis II Test Requirement 5652
  - Test Requirements for Certification in New Jersey
  - Passing Score 149
- Professional Teacher Preparation
  - A coherent sequence of study in professional education courses which culminates in supervised clinical practice.
- State Teaching Certificate
  - Submit a copy of a valid out-of-state teaching certificate that is equivalent to a New Jersey standard instructional certificate.
- Record of Professional Experience
  - After applying in NJEdCert, a Record of Professional Experience form will be emailed to the employers listed in your application.
  - The New Jersey Department of Education will make the final determination as to whether the experience meets New Jersey reciprocity regulations.

Physiology and Hygiene Requirement

This requirement may be completed by choosing one of the following options:

- Present evidence of basic military training.
- Complete a course such as biology, health or nutrition that appears on an accredited two- or four-year college or university transcript.
- Complete an online test. You must have a tracking number and an application on file to take this test.

Option Two

Candidate who holds a New Jersey standard instructional certificate in an endorsement area other than computer science must complete the following requirements:

- **Subject Matter Preparation**
  - 15 credit hours of computer science coursework
- **Praxis II Test Requirement** 5652
  - Test Requirements for Certification in New Jersey
  - Passing Score 149

Option Two

- **Methodology Course** - Three credits, or equivalent, in a methods of teaching computer science course offered by an accredited college or university within 12 months of the initial computer science teaching assignment.
  - The methods course may be included in the 15 credit hours of computer science coursework.
  - All other courses in pedagogy or education are not acceptable.
  - **Acceptable Courses**
    - The final determination as to which courses will be counted towards the computer science subject matter is based on content standards found in the New Jersey Student Learning Standards.

Option Three

Candidate who holds a New Jersey standard instructional certificate and **teaches computer science as of September 1, 2024**, shall be eligible for the computer science endorsement if they meet the following requirements:

- **Summative Rating Requirement**
  - Has received **two effective or highly effective ratings** in teaching computer science within the **last four years**.
  - After applying in NJEdCert, a Record of Professional Experience form will be emailed to the employers listed in your application to verify your ratings.
- **Praxis II Test Requirement** 5652
  - Test Requirements for Certification in New Jersey
  - Passing Score 149

The Praxis

This material is based upon work supported by the National Science Foundation under Award No. 2607763.

The Praxis Test

Praxis Test Requirement

- Computer Science: Content Knowledge (5652)
- Passing score - 149 (roughly 60%)

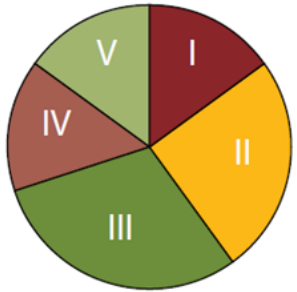
How to Register for a Praxis Test

- Put in your zip code or choose "test from home" if you want to do it at home.
- Recommendation - go to the test site if at all possible

The Praxis Test

Test at a Glance

Test Name	Computer Science
Test Code	5652
Time	3 hours
Number of Questions	100
Format	The test consists of a variety of selected-response questions, where you select one or more answer choices; questions where you enter your answer in a text box; and other types of questions. You can review the possible question types in chapter 2.
Test Delivery	Computer delivered



Content Categories	Approximate Number of Questions	Approximate Percentage of Examination
I. Impacts of Computing	15	15%
II. Algorithms and Computational Thinking	25	25%
III. Programming	30	30%
IV. Data	15	15%
V. Computing Systems and Networks	15	15%

2 Practice Questions, 3:36 timer

READY?

2 Practice Questions, 3:36 timer

Assuming that n is the length of arrays A, B and C, what is contained in C after the following function is run?

```
int[] workUpon(int[] A, int[] B, int[] C, int n)
   for (int i ← 0; i < n; i ← i + 1)
          C[i] ← A[i] + B[i]
   end for
end workUpon
```

A. The element-wise maximum of the two arrays.

B. The sums of the corresponding elements of arrays A and B.

C. The sums of the corresponding elements of arrays A, B and C.

D. The concatenation of arrays A and B.

A programmer has written a procedure `calculateAverage(x, y)` that calculates the average of two integer values x and y.

Given:

```
int a ← 4
int b ← 6
int c ← 8
int d ← 2
```

Consider the execution of the following sequence of calls:

```
result ← calculateAverage(calculateAverage(a,b),calculateAverage(c,d))
```

What is the final value of `result`? Fill in the answer below:

2 Practice Questions, 3:36 timer

Assuming that n is the length of both arrays A and B, what is returned by the following function?

```
int[] workUpon(int[] A, int[] B, int[] C, int n)
   for (int i ← 0; i < n; i ← i + 1)
          C[i] ← A[i] + B[i]
   end for
end workUpon
```

B

A. It finds the element-wise maximum of the two arrays.

B. It adds the corresponding elements of arrays A and B and returns the result in array C.

C. It concatenates arrays A and B.

D. It subtracts elements of array B from array A and returns the result in array C.

A programmer has written a procedure `calculateAverage(x, y)` that calculates the average of two integer values x and y.

Given:

```
int a ← 4
int b ← 6
int c ← 8
int d ← 2
```

5

Consider the execution of the following sequence of calls:

```
result ←
calculateAverage(calculateAverage(a,b),calcul
ateAverage(c,d))
```

What is the final value of `result`? Fill in the answer below:

How to Apply for CS Certification

April 2026

This material is based upon work supported by the National Science Foundation under Award No. 2607763.

The Computer Science certificate requirement information is available on the NJDOE website

- Go to "**Instructional Certificates**"
- Computer Science (1820)
- If you **have a teaching certificate** in another subject go to "**Standard**".
  - There are three options under standard depending if you taught Computer Science before

The Computer Science certificate requirement information is available on the NJDOE website

- Go to "**Instructional Certificates**"
- Computer Science (1820)
  - "CE" and "CEAS" are for individuals new to teaching and want to get a full certification to teach Computer Science (Do Not Have any Certification)

The Computer Science certificate requirement information is available on the NJDOE website

- "CTE" (4148) is a different certification process only for those who teach in CTE programs.
- More information at the same website under "Career and Technical Education Certificates" (below "Instructional Certificates")

Application

Educators can apply for the computer science certificate on NJEdCert

- Take the Computer Science Praxis (5652)
  - Get a passing score of 149 before applying
  - You will need your ETS Candidate ID number
- Meet the other requirements
  - Teach CS for 2 years or course work - see previous slides

Application

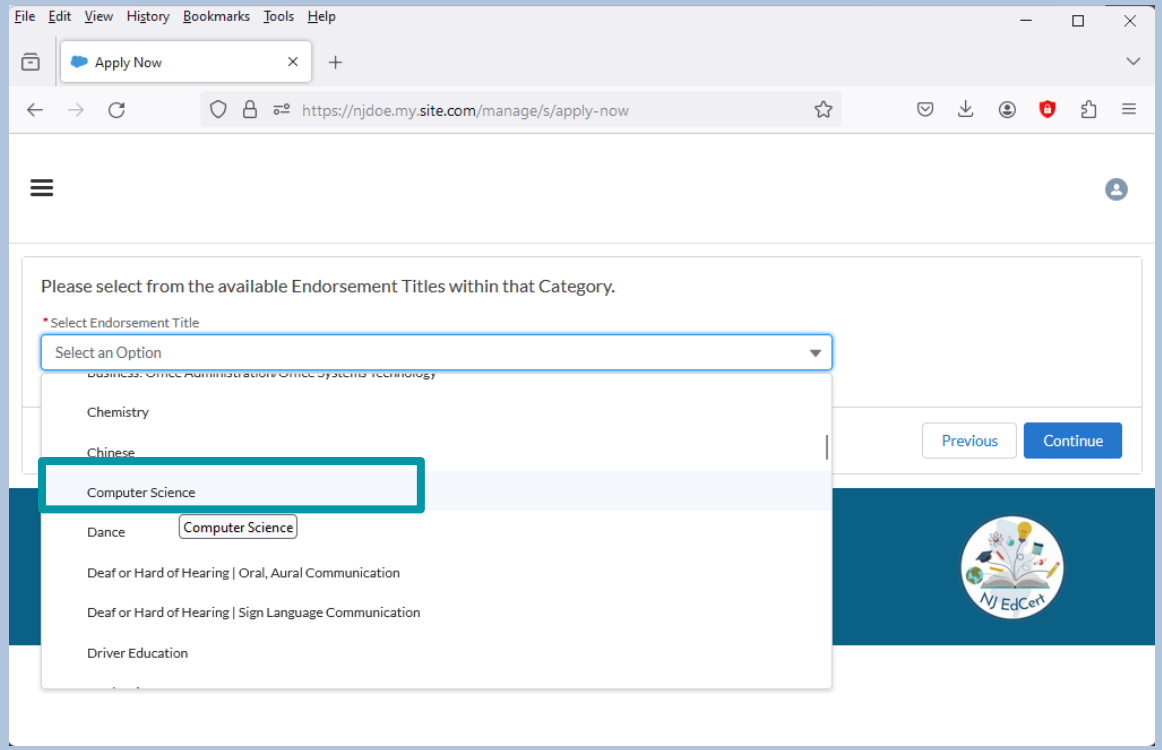
Educators can apply for the computer science certificate on NJEdCert

- Have your current teacher certification available, you will need the number at the top when taking the Physiology and Hygiene Exam (about 15 basic common sense questions)
- Screenshot the Physiology and Hygiene submission, you will need to upload the screenshot when asked

Which license?

The license number is not readily visible, but you can select the license when you start a new application.

Note that it is “**Computer Science**” and NOT “Computer Science Technology”.



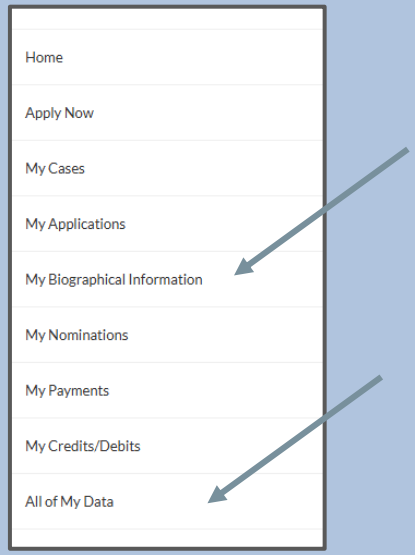
Computer Science Technology is the CTE license, and is needed for (and only valid for) Career and Technical Education schools.

Transcripts

- Need your transcripts to show GPA (undergraduate & graduate if applicable)
- Must be in digital form, they won't accept paper copies
- National Students Clearinghouse:
  - www .getmytranscript .com . Transcripts
- If you can only get paper copies
  - Request them in a sealed envelope
  - Have mailed to you
  - Bring to your county Department of Education
  - They will scan, upload to the website and return originals to you

Check Your Application

1. Make sure to click on the three lines on the top left
2. Then click All of My Data



3. Go through all your data
4. Check for deficiencies
5. Also check My Biographical Information

Tips and Tricks

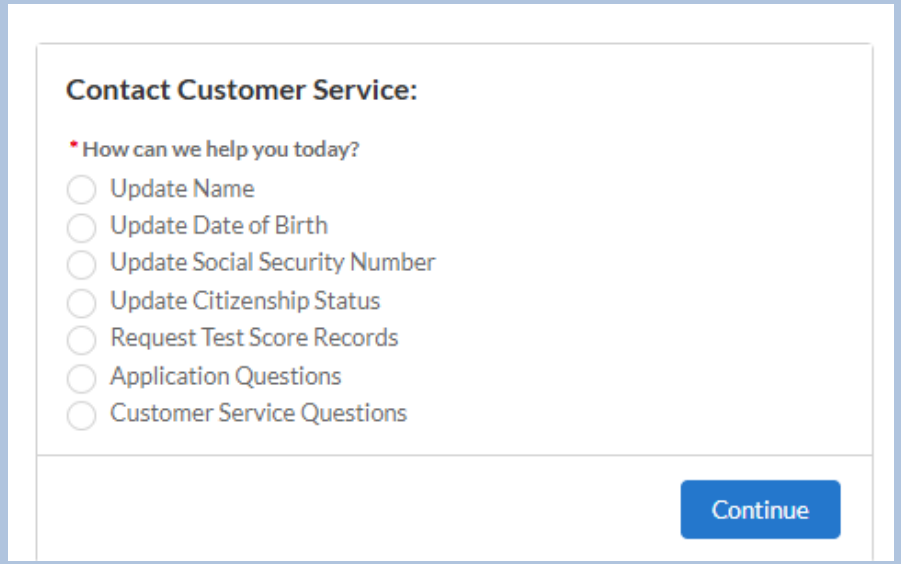
- If you apply for certification before taking the Praxis, once you pass the Praxis you will have to go to your Biographical Information, delete your Praxis ID and reenter the ID in order for your test score to be uploaded.
- Make sure your school district uploaded the ROPE form and your last two evaluations.
- Your district must specify that you have been teaching Computer Science for two years.

Tips and Tricks

- CS Praxis is basically a combination of AP CSA and AP CSP, make sure you are familiar with the Java Pseudocode
- Take the Praxis at a test site. Many have been frustrated with at home testing
- Take a Praxis workshop offered by the CS Hubs
- Get a tutor

Need Help

- When you logon to NJEdCert you will see a list of all your certifications
- You can Contact Customer Service and they will open a case
- You will receive an emailed response



Please be advised, the information we are providing is for informational purposes only.

If you have additional questions after reviewing the NJDOE website, you should call the NJDOE Office of Certification.

- The number is 609-292-2070.
- Hours M - F 8:00 am - 7:00 pm.
- They suggest calling after 5:00 pm
- Office of Educator Evaluation edueval@doe.nj.gov

Praxis Review Course with Ben

DATES/TIMES:

Aug 10-14: 9am-12:30pm (Monday-Friday)

Aug 24: 9-11:30am (Monday)

WHERE: Online via Zoom

PD HOURS: 20

In collaboration with CSTA, CSTANJ and Northern Computer Science Education Hub

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Paige's Recommended

Praxis Review Materials

Resources

Stay in the Know

Join the CS4NJ Google Group

Join the Garden State Cyber Google Group

Easy access to links!

CSTA National

CSTA New Jersey

CSPD Week Website

CS4NJ

Have CS news to share with the NJDOE?

Use #CompSciNJ when sharing on social media

#GoodNewsinNJSchools Campaign

Local educational agencies are invited to share positive news stories for possible inclusion on our social media.

Please go to our News Submissions page to submit “good news in New Jersey schools” during our campaign. The NJDOE is on Facebook, Twitter, Instagram, LinkedIn and YouTube.

Please “like” and follow us to get breaking news and information from the NJDOE and tag us @NewJerseyDOE and tag #GoodNewsinNJSchools to share great things happening in your schools.

New Jersey Department of Education @NewJerseyDOE · Oct 17

DID YOU KNOW: The **New Jersey** Student Learning Standards (SLS) include **Computer Science** and Design Thinking. Check it out here: bit.ly/3MpqyaO and stay tuned for more information on **computer science** education **in New Jersey**'s schools. #CompSciNJ

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Don't forget to use the state's hashtag when on social media

#CompSciNJ

Questions? Comments?

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