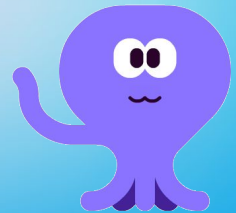


Satisfying Tennessee's HS Computer Science Graduation Requirement with Kira Learning

April 18, 2024



Facilitators



Rick Gaston
Dir. of Teaching & Learning
Kira Learning



Becky Ashe
Dir. of Professional Learning
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TSIN



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STEM & Kira CS Teacher
Maryville, TN



Chelsie Sells
HHS STEM Coordinator & Kira CS
Teacher
Blount County School System

◀ Agenda ▶

1. Who is Kira Learning?
2. TN CS legal requirements for HS
3. TN HS course options
4. HS course scheduling models
5. Kira platform and HS content overview
6. Kira HS teacher resources
7. Experiences of pilot teachers and students with Kira Intro to CS (Python) course
8. Next steps - Staying in touch with this community



Kira Learning Team



Dr. Andrew Ng
Chairman

Chairman and
**Co-Founder of
Coursera**,
Adjunct Professor
at **Stanford
University**.



Andrea Pasinetti
CEO, Co-Founder

Founded and ran
one of China's
largest and most
impactful education
non-profit
organizations -
Teach For China.



Jagriti Agrawal
Co-Founder,
VP of AI

Developed
**automation
software** for the
Mars 2020 rover
mission at NASA
JPL in the **Artificial
Intelligence**
Group.



Rick Gaston
Dir. of Teaching
& Learning



Cristina Herndon
Sr. Customer Success Manager,
Western Tennessee



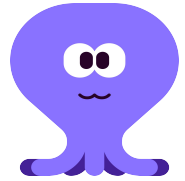
Sarah Stern
Dir. of Customer
Success



Molly Mulhern
Customer Success Manager,
Eastern Tennessee

◀ About **KIRA LEARNING** ▶

Kira Learning is an education technology company founded in 2021 with the aim of using AI to empower everyone to learn computer science.



◀ Our **Vision** ▶

Kira Learning prepares learners for the Computer Science careers of the future.

We are building the content, tools, and support to empower anyone to teach or learn AI & CS.

Kira in Use

Tennessee

Singapore

Maryland

Ohio

Togo

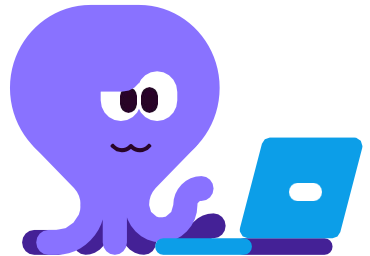
New York



Vietnam

TN CS Legislative Updates - Becky Ashe

- [CS Ed Law \(HB2153/SB2406\)](#) passed 5/3/22, unanimous in both branches
- [HB2242](#) 4/11/24 signed by Gov Lee
- [TN's K-12 CS Framework](#), adopted 2022



School Questions for Legislative Compliance

- Out of the [14 courses](#) (listed on pg 2) approved to meet the Graduation requirement beginning with next year's freshmen cohort, which do you already teach?
 - How many students with your current schedule would meet the requirement?
 - Do you have capacity to meet the requirement with the current schedule? Do all your current students have the opportunity (if they wished) to take at least one of the 14 classes?
- Based on your population and pipeline feeding you, is it practical for you to plan for students to meet the requirement in freshman/sophomore year?
 - What does your capacity look like to meet the demand if more students take CS early and want advanced classes?
 - If you schedule the requirement early, how might you manage transfer students after those early grades?

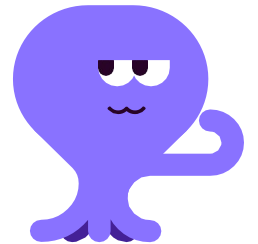
Curricular Decisions

Once you decide which course, here are curricular options

- Computer Science G10H06
 - Kira completely aligns
 - Code CS Discoveries mostly aligns
- Coding I C10H14
 - Kira aligns AND qualifies for PCEP (Python) industry certification (Tier 2 ready graduate points)
- CS Foundations C10H11 (Gr. 9)
 - Kira mostly aligns
 - Code.org CS Discoveries mostly aligns

Other Considerations

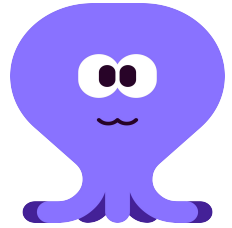
- Funding implications
 - CTE vs. “academic” course choice
- Who is eligible to teach the HS CS course?



HS Course Scheduling Models

- Duration: 1 year
 - Meet every day
 - A/B rotation
- Duration: 1 year
 - Skinny Sections
- Duration: 1 semester
 - Meet every day

HS Course Pacing Models



- Flexibility supports teacher choice and student differentiation
- Options:
 - Teacher keeps whole class together on lesson level
 - Pros: Supports whole-class instruction and cooperative learning
 - Challenges: Some students may desire faster or slower paces
 - Students work at their own pace
 - Pros: Supports student choice
 - Challenges: Whole-class instruction on common topics difficult

Kira Intro to CS Course Overview

- Kira's Intro to CS course was designed specifically to satisfy the new Tennessee high school state CS requirements!
- [Curriculum Guide](#)
- Course also has been endorsed by College Board to serve as AP Computer Science Principles

Course Pacing

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
10 hrs*	11 hrs	13 hrs	9 hrs	11 hrs	22 hrs	4 hrs	7 hrs	20 hrs

*Times include:

- 38 Total Lessons
- Kernels of Curiosity
- Mini-Projects
- Unit Assessments
- Midterm Exam
- Final Project
- Final Exam

Kira Intro to CS Curriculum at a Glance

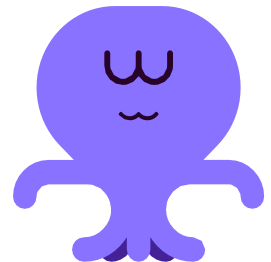
Unit 1	Fundamentals of Communicating with a Computer
Unit 2	Decision-Making with Computers Using If-else Statements
Unit 3	Expanding Capabilities with Functions and Libraries
Unit 4	Storing Data with Lists
Unit 5	Repetition and Iteration with Loops
Unit 6	Storing Data with Dictionaries
Unit 7	Creating Custom Data Types
Unit 8	Data Analysis Life Cycle
Unit 9	Data Visualization

Kira Platform Overview

- Navigation
 - Teachers can lock lessons for whole-class pacing
- Videos
- Practice exercises
- Summative assessments
- Gradebook
- AI Tutor
- NOTE: Deeper dive on all new Kira platform updates at May 2 webinar

Kira Teacher Resources

- Curriculum Guide
- [Lesson plans](#) (example from U1L2)
- [Lesson slides](#) (example from U1L2)
- [Guided notes](#) for each lesson (example from U1 L1)



Kira Pilot Teacher Experiences



Dr. Andy Hebert

Maryville, TN

STEM and Kira CS Teacher

Kira Pilot Teacher Experiences



Chelsie Sells

Blount County School System
HHS STEM Coordinator and
Kira CS Teacher

NEXT STEPS

Upcoming Webinars

Piloting Kira's Middle School Course after TCAP

Thursday, April 25, 4-5pm CT

[Register Here](#)

Sneak Peek: Exciting Kira Product Updates for the 2024-25 School Year!

Thursday, May 2, 4-5pm CT

[Register Here](#)



TSIN CS Accelerator Week: Kira PD Sessions

- July 8-12 – Middle Tennessee State University, Murfreesboro
- Read more details on Accelerator Week [here](#)
- Kira is offering three workshops:
 - Middle School (grades 6-8)
 - High School (grades 9-12)
 - AP CS Principles (grades 9-12)
- [Register here](#)



District + School Leaders

Need support in figuring out what a district or school-wide implementation could look like for your districts and schools, including integration needs?

Would you like to learn more about Kira's professional development opportunities this summer to support your teachers' adoption of the Kira Learning courses?

BOOK A MEETING WITH US



Cristina Herndon
Sr. Customer Success Manager
Western Tennessee

meetings.hubspot.com/cristina-herndon



Molly Mulhern
Customer Success Manager
Eastern Tennessee

meetings.hubspot.com/molly-mulhern

Teachers

- 1 Create an account at:
kira-learning.org/signUp/teacher/
- 2 Join our Facebook professional community at:
facebook.com/groups/kirateachers



Thank you for your participation!

Further questions? Email us support@kira-learning.com

