CS4App: CS4All targeting the rural Appalachian region
Summer 2021 Activity Schedule

Main Project Website: [https://cs.appstate.edu/cs4all/](https://cs.appstate.edu/cs4all/)

**How to Navigate this Document**
Items in underlined blue are hyperlinks. Clicking on them opens a pop up with the actual hyperlink (really, Google, why twice?). Click that second link and it jumps you further down in this document to the appropriate location.

Or you can do a Ctrl-F (Command-F for Mac users) to “find” something using the search box.

Or you can just scroll, as you wish.

**Workshop View**

- **Week 1 June 14 - 18: Build Up**
  - Weekly Summary View
  - Daily Detailed Views

- **Week 2 June 21 - 25: Friday Institute Workshop**
  - Weekly Summary View
  - Daily Detailed View

- **Week 3 June 28 - July 2: Deeper dive into Code.org AP CSP course content**
  - Weekly Summary View
  - Daily Detailed View

- **Week 4 July 6 - 9: Adapt to your local context**
  - Weekly Summary View
  - Daily Detailed View
Weekly Summaries

Week 1: Build Up
Monday June 14
Leadership Workshop, Welcome from our Dean, Computing and Society: Cybersecurity
Tuesday June 15
Advancing Digital & Media Literacy, Building a Successful NIC, CS Unplugged, Snap
Wednesday June 16
Inclusive Excellence, Diversity, Snap Programming
Evening speaker series (Dr. Gregg Marland topic)
Thursday June 17
Snap Programming, Javascript Programming
Friday June 18
Equity, Javascript Programming

Week 2: Friday Institute
Monday June 21
What is CSP?
Tuesday June 22
The Role of the Teacher
Wednesday June 23
Understanding our Responsibility
Wednesday evening speaker series (Honeybee research at App State)
Thursday June 24
Creating an Inclusive CS Classroom
Friday June 25
Putting it All Together

Week 3: Deeper dive
Monday June 28
Challenges recruiting & engaging high school students, Jennifer LeBlanc, West Wilkes HS
Content deep dive (Unit 1 - start of course)
Tuesday June 29
Content deep dive (Units 4,5 - programming)
Wednesday June 30
High school CS landscape, Content deep dive (Units 6,7 - algorithms, programming)
Evening speaker series (The math behind Origami)
Thursday July 1
Content deep dive (Unit 8 - PT prep)
Friday July 2
CS standards landscape, Content deep dive (Unit 9 - programming)

Week 4: Locally Adapt
Tuesday July 6 - Friday July 9
Whatever you need to do! (Prep a Canvas course, build out materials, explore Code.org as a verified teacher, practice unplugged activities, content deeper dives)
Wednesday evening speaker series (Baker Perry topic)
Daily Summaries

**Week 1: Build Up**

**Monday June 15th**
8:30 - 9:00  Arrival, continental breakfast
9:00 - 11:55  Leadership: Getting to Know Your Team, Becoming a Team, Moving Forward as a Team
  *Courtney Holder, Alyssa Rodriguez, Lauren Watson, App State Leadership Studies*
12:00 - 1:00  Lunch (on your own)
1:00 - 1:10  Welcome remarks by **Dr. Neva Specht**, Dean of College of Arts and Sciences
1:10 - 4:50  Computing and Society: Cybersecurity
  Current threat landscape, Challenges, Security posture and improving it
**4:50 - 5:00**  [Link to Individual daily checkpoint](#)

**Tuesday June 15**
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:25  Advancing Digital and Media Literacy
  *Dr. Sarah Zurhellen and Mr. Mark Coltrain, Writing Across the Curriculum Program*
10:25 - 10:35  Break
10:35 - 11:55  Building a Successful Networked Improvement Community (NIC)
  *Dr. Tracie Salinas, Director of App State Math and Science Education Center*
12:00 - 1:00  Lunch (on your own)
1:00 - 3:00  **Computational Thinking with CS Unplugged**
3:00 - 3:15  Break
3:15 - 4:50  **Introduction to Programming using Snap**
4:45 - 4:55  **Self-efficacy evaluation**
**4:50 - 5:00**  [Link to Individual daily checkpoint](#)

**Wednesday June 16**
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:15  Inclusive Excellence, *Elizabeth Bellows, App State Center for Academic Excellence*
10:15 - 10:30  Break
10:30 - 11:55  YouTube: [Why diversity matters to technology innovation](#)
  Who are the underprivileged and underrepresented students in CS?
12:00 - 1:00  Lunch (on your own)
1:00 - 2:30  *Why Programming is Hard* and *More Snap! Programming*
2:30 - 2:45  Break
2:45 - 4:45  *Even MORE Snap! Programming*
**4:50 - 5:00**  [Link to Individual daily checkpoint](#)
**5:00-6:00**  **Distinguished Speaker Series: Topic Global Climate Change: The Physics and Chemistry and a Little Data Science**, 
  *Dr. Gregg Marland, Geological and Environmental Sciences*
Thursday June 17
8:30 - 9:00   Arrival, continental breakfast
9:00 - 10:15  **Snap! Programming with Finch robots**
              **RET activity repository** (incl. Finch activities but older activities are using older version of
              Scratch that is not SNAP compatible yet; we are working on updating)
              **Other devices that work with Snap**
10:15 - 10:30 Break
10:30 - 11:55 More: Snap! Programming with Finch robots
12:00 - 1:00  Lunch (on your own) [https://cs.appstate.edu/ret/repository.php](https://cs.appstate.edu/ret/repository.php)
1:00 - 2:30   **Introduction to Javascript programming**
2:30 - 2:45   Break
2:45 - 4:50   More Javascript programming
**4:50 - 5:00  Link to Individual daily checkpoint**

Friday June 18
8:30 - 9:00   Arrival, continental breakfast
9:00 - 10:20  Equity, Diversity, and Inclusion, Andrew Bellemer, Biology, Appstate
10:20 - 10:30 Break
10:30 - 11:55 YouTube: [Increasing Diverse Participation in Computing by Mitigating Biases and Barriers](https://www.youtube.com/watch?v=example_video)
12:00 - 1:00  Lunch (on your own)
1:00 - 3:00   Javascript programming
3:00 - 3:15   Break
3:15 - 4:45   Javascript programming FINALE pair project
              CS Teaching Tips: [Main Site] [Pair Programming]
**4:50 - 5:00  Link to Individual daily checkpoint**
Daily Summaries

Week 2 - Friday Institute Code.org training

Monday June 21
8:30 - 9:00   Arrival, continental breakfast
9:00 - 10:15  Welcome, Intro to CSP
10:15 - 10:25 Break
10:25 - 12:20 CED, Unit 1 overview, U1L1, Model Lesson #1: U1L2
12:20 - 1:20  Lunch (on your own)
1:20 - 2:25   Model Lesson #1: U1L3
2:25 - 2:35   Break
2:35 - 4:50   Binary numbers, Lesson types, Lesson planning
4:50 - 5:00   [Link to Individual daily checkpoint]

Tuesday June 22
8:30 - 9:00   Arrival, continental breakfast
9:00 - 10:00  Teachers role in the classroom and in formative assessment
10:00 - 10:10 Break
10:10 - 12:20 Lesson planning, U1L7, U1L8
12:20 - 1:20  Lunch (on your own)
1:20 - 2:20   U1L9
2:20 - 2:30   Break
2:30 - 4:50   U1L10, U1 conclusions and assessment
4:50 - 5:00   [Link to Individual daily checkpoint]

Wednesday June 23
8:30 - 9:00   Arrival, continental breakfast
9:00 - 9:55   Understanding our role as CS teacher
9:55 - 10:05  Break
10:05 - 12:20 Unit 2, U2L2, U2L3
12:20 - 1:20  Lunch (on your own)
1:20 - 2:20   Addressing Unconscious Bias
2:20 - 2:30   Break
2:30 - 4:50   U2L4, Unit 2 conclusions, Applying bias learning
4:50 - 5:00   [Link to Individual daily checkpoint]
5:00-6:00  Distinguished Speaker Series: Beemon: Bee Monitor Research and Tools
Dr. Rahman Tashakkori, Computer Science
Thursday June 24
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:05 Recruiting and Retaining
10:05 - 10:15 Break
10:15 - 12:20 Unit 3, U3L2, U3L4
12:20 - 1:20 Lunch (on your own)
1:20 - 2:20 U3L6
2:20 - 2:30 Break
2:30 - 4:50 U3L7, U3L8, Unit 3 conclusions, Personalization
4:50 - 5:00 Link to Individual daily checkpoint

Friday June 25
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:20 Equity, Values and Assessment
10:20 - 10:30 Break
10:30 - 12:20 Assessing Units 1-3, Tour of Code.org platform
12:20 - 1:20 Lunch (on your own)
1:20 - 2:40 AP scavenger hunt, Planning your year
2:40 - 2:50 Break
2:50 - 3:30 Closing ceremonies
3:30 - 3:45 Break
3:45 - 4:45 Retrospective and Overview of next two weeks
4:50 - 5:00 Link to Individual daily checkpoint
Daily Summaries

Week 3 - Deeper Dive into Code.org CSP Course

**Monday June 28**
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:15  Challenges recruiting/engaging high school students with CS
Webjets.io  
*Ms. Jennifer LeBlanc, West Wilkes High*
10:15-10:30  Morning Break
12:00 - 1:00  Lunch (on your own)
1:00 - 2:30  Finishing our JavaScript Finale project
2:30 - 2:40  Break
2:40 - 3:30  Agile Software Development
3:30 - 4:50  Sprint Planning: Content Deeper Dive
4:50 - 5:00  Link to Individual daily checkpoint

**Tuesday June 29**
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:15  Deeper Dive: Data Representation
10:15 - 10:30  Break
10:30 - 11:55  Course module deeper dive: “Sprint 1, Day 2”
12:00 - 1:00  Lunch (on your own)
1:00 - 2:30  Deeper Dive: Programming Behind the Scenes
2:30 - 2:40  Break
2:40 - 4:50  Course module deeper dive: “Spring 1, Day 4”
4:50 - 5:00  Link to Individual daily checkpoint

**Wednesday June 30**
8:30 - 9:00  Arrival, continental breakfast
  Check this out for posters
  [https://www.lessonhacker.com/posters/](https://www.lessonhacker.com/posters/)
  [https://code.org/educate/resources/posters](https://code.org/educate/resources/posters)
9:00 - 10:15  Deeper Dive: Image Representation
10:15-10:30  Morning Break
10:30 - 11:55  Deeper Dive: Unit 6 (algorithms)
12:20 - 1:20  Lunch (on your own)
1:00 - 2:30  CS & CSP Landscape (NCCTE BP41, NCCTE BP42, BJC, Code.org, ECS, et al)
2:30 - 2:40  Break
2:40 - 4:50  Deeper Dive: Unit 7 (programming)
4:50 - 5:00  Link to Individual daily checkpoint
Thursday July 1
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:15 Continued deeper dive
10:15 - 10:30 Break
10:30 - 11:55 Deeper Dive: Unit 8 (Performance Task)
12:00 - 1:00 Lunch (on your own)
1:00 - 2:30 Continued deeper dive
2:30 - 2:45 Break
2:45 - 4:50 Continued deeper dive
4:50 - 5:00 Link to Individual daily checkpoint

Friday July 2
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:15 CS Standards landscape (CSTA, NC CS Standards, NC CTE BP41, BP42)
10:15 - 10:30 Break
10:30 - 11:55 Deeper dive: Unit 9 (programming)
12:00 - 1:00 Lunch (on your own)
1:00 - 2:30 Continued deeper dive
2:30 - 2:45 Break
2:45 - 4:50 Continued deeper dive
4:50 - 5:00 Link to Individual daily checkpoint
Daily Summaries

Week 4 - Adapt to your local context

Monday July 5

**NO CLASS: Fourth of July Holiday**

Tuesday July 6
8:30 - 9:00  Arrival, continental breakfast
8:59 - 9:00  Sprint Goal: Friday Final Presentation - 3 Takeaways, 2 Commitments, 1 Mystery
9:00 - 10:15 Parallel and Distributed Computing Deep Dive
10:15 - 10:30 Break
10:30 - 12:00 Work on items for sprint goal
12:00 - 1:00 Lunch (on your own)
1:00 - 2:45 Work on items for sprint goal
2:45 - 3:00 Break
3:00 - 4:30 Data Visualization
4:50 - 5:00  [Link to Individual daily checkpoint]

Wednesday July 7
8:30 - 9:00  Arrival, continental breakfast
9:00 - 10:15 “The $#%^@& We Put Up With”
10:15 - 10:30 Break
10:30 - 12:00 Work on sprint goal
12:00 - 1:00 Lunch (on your own)
1:00 - 5:00 Work on sprint goal
4:50 - 5:00  [Link to Individual daily checkpoint]
5:00-6:00  Distinguished Speaker Series: Topic
            *Dr. Baker Perry, Geography and Planning*

Thursday July 8
8:30 - 9:00  Arrival, continental breakfast
9:00 - 12:00 Work on sprint goal
12:00 - 1:00 Lunch (on your own)
1:00 - 2:45 Work on sprint goal
2:45 - 3:00 Break
3:00 - 4:45 Cybersecurity
4:45 - 5:00  [Link to Individual daily checkpoint]

Friday July 9
8:30 - 9:00  Arrival, continental breakfast
9:00 - 11:30 Work on sprint goal
11:30 - 12:30 Lunch (on your own)
12:30 - 3:30 Final Presentations
3:30 - 4:50 Dinner & Graduation Ceremony - Neva Specht (Dean - College of Arts and Sciences)
4:50 - 5:00  [Link to Individual daily checkpoint] & [Link to self-efficacy post assessment]
## Content Deeper Dive Topics

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