



**2022-2024 Advanced Placement (AP) Computer Science Principles (CSP) Grant
Letter of Interest (LOI) Application Due 11:59 p.m. CT, July 12, 2022**

NOGA ID

Authorizing legislation **General Appropriations Act, Article III, Rider 86, 87th Texas Legislature**

This LOI application must be submitted via email to **competitivegrants@tea.texas.gov**.

The LOI application may be signed with a digital ID or it may be signed by hand. Both forms of signature are acceptable.

TEA must receive the application by **11:59 p.m. CT, July 12, 2022**.

Application stamp-in date and time

Grant period from **August 31, 2022 to April 30, 2024**

Pre-award costs are **not** permitted for this grant.

Required Attachments

- Excel workbook with the grant's budget schedules (linked along with this form on the TEA Grants Opportunities page)

Amendment Number

Amendment number (For amendments only; enter N/A when completing this form to apply for grant funds):

Applicant Information

Organization CDN Campus ESC UEI #

Address City ZIP Vendor ID

Primary Contact Email Phone

Secondary Contact Email Phone

Certification and Incorporation

I understand that this application constitutes an offer and, if accepted by TEA or renegotiated to acceptance, will form a binding agreement. I hereby certify that the information contained in this application is, to the best of my knowledge, correct and that the organization named above has authorized me as its representative to obligate this organization in a legally binding contractual agreement. I certify that any ensuing program and activity will be conducted in accordance and compliance with all applicable federal and state laws and regulations.

I further certify my acceptance of the requirements conveyed in the following portions of the LOI application, as applicable, and that these documents are incorporated by reference as part of the LOI application and Notice of Grant Award (NOGA):

- LOI application, guidelines, and instructions
- Debarment and Suspension Certification
- General and application-specific Provisions and Assurances
- Lobbying Certification

Authorized Official Name Title

Email Phone

Signature Date

Shared Services Arrangements

Shared services arrangements (SSAs) are **not** permitted for this grant.

Statutory/Program Assurances

The following assurances apply to this program. In order to meet the requirements of the program, the applicant must comply with these assurances.

Check each of the following boxes to indicate your compliance.

- 1. The applicant provides assurance that the application does not contain any information that would be protected by the Family Educational Rights and Privacy Act (FERPA) from general release to the public.

- 2. The applicant provides assurance to adhere to all the Statutory and TEA Program requirements as noted in the 2022-2024 Advanced Placement (AP) Computer Science Principles (CSP) Grant Program Guidelines.

- 3. The applicant provides assurance to adhere to all the Performance Measures, as noted in the 2022-2024 Advanced Placement (AP) Computer Science Principles (CSP) Grant Program Guidelines, and shall provide to TEA, upon request, any performance data necessary to assess the success of the program.

- 4. The applicant will include AP CSP as part of the course catalog for the 2023-2024 school year by December 2022 and will go through the necessary district policies to obtain school board approval.

- 5. The applicant will identify, recruit, and onboard qualified teachers to receive professional development training and become certified to teach an AP CSP course.

- 6. The applicant will identify and select a professional development provider.

- 7. The applicant will promote the AP CSP course offering to all students.

- 8. The applicant will provide support necessary to ensure students successfully pass the AP CSP course.

- 9. The applicant will provide a way for students to take the AP CSP exam after course completion for free or at a reduced cost.

Summary of Program

Provide an overview of the program to be implemented with grant funds. Include the overall mission and specific needs of the organization. Describe how the program will address the mission and needs.

AP Computer Science Principles is an introductory college-level computing course that introduces students to the field of computer science. Students will learn to design and evaluate solutions and apply computer science to solve problems through the development of algorithms and programs. Greenville ISD CTE offers a set of pathways that give students new opportunities to learn new skills that prepare them to enter the workforce or finance their college education. The Advanced Placement Computer Science Principles course will be an awesome addition to our Career and Technical Education department and will contribute to the CTE mission by providing our students with an opportunity that will encourage pathways to STEM career fields, as we live in a progressive digital age. This great opportunity will allow for underrepresented populations in STEM fields such as females, Blacks, Hispanics, and at-risk students in our school district to connect with the fundamentals of Computer Science. It will also increase the number of students completing college and career readiness classes. This is important as the workforce is becoming more technologically advanced. The Northeast Texas Workforce projects about a 12% growth in Computer Science and STEM occupations from 2020-2030. Offering AP Computer Science Principles will aid in equipping students with exposure to possibilities in pursuing STEM related careers.

TEA Program Requirements

1. Identify and describe the explicit need for grant funds to support an AP Computer Science Principles (AP CSP) course. How will this grant build capacity for the LEA? How will the LEA prioritize marginalized students in receiving access to the AP CSP course offering?

Grant funds are needed to implement and support an AP Computer Science Principles Course for Greenville ISD. The grant funds will be used to offer a course that could change the trajectory of students' lives. There is about a 75% economically disadvantaged population in Greenville ISD that causes AP exams costs to be a roadblock. AP CSP will sow the seed of possibilities in careers in computer science. Underrepresented populations in STEM careers such as females, African-Americans, Hispanics and first generation students in our district will be encouraged to participate in this course through school counselors. The counselors will ensure marginalized students know the benefits and importance of computer science. According to the College Board, students who took an Advanced Placement Computer Science Principles course were twice as likely to continue along a computer science pathway. Students participating in this course will increase the number of students taking advanced level courses and advanced placement tests in Greenville ISD.

TEA Program Requirements Cont'd

2. Describe how the LEA will select teachers to receive professional development to teach an AP CSP course. How will the LEA select teachers and ensure teacher commitment? How will the LEA ensure teachers have all the tools necessary to teach the AP CSP course successfully? Include how many teachers the LEA needs to provide the AP CSP course.

Computer Science is an area of growth in Greenville ISD. The plan is to incorporate AP Computer Science in the Career and Technical Education department. The instructor for this class will be selected first based teacher volunteers with a certification that aligns with the course and then principal recommendation. According to the number of students anticipated to take the course, our aim is to recruit and train 1 teacher in the district to teach the AP Computer Science Principles course. That teacher will receive professional development and participate in frequent planning to ensure the teacher has all tools necessary to teach the AP Computer Science course successfully. There will be quarterly reviews with teachers. The students will take the end of 9 weeks assessments and the data from the end of quarter assessment will be used to measure student success.

3. The LEA will identify and select a professional development provider. Describe the nature of the LEA/provider relationship. Which vendor will be the professional development provider for the LEA? When and how will this training occur?

The district will use UTeach as professional development for the person who will teach the AP Computer Science Principles course. UTeach, through University of Texas, offers a five-day in-person workshop and a six-week (summer) or ten-week (fall/spring) online workshop. Professional development is followed by year-round, on-demand support. Developed by experts in STEM teaching and learning at The University of Texas at Austin, UTeach AP CS Principles encourages computational thinking and student engagement through a hands-on, project-based curriculum. Comprehensive and classroom ready, the curriculum offers detailed lesson plans, presentation slides, handouts, AP-style test banks, and access to an online student textbook. UTeach works for teachers with a variety of content backgrounds and levels of expertise through intensive scaffolding and on-demand implementation support during the school year. This is a good fit for the direction our district wants to go with the AP Computer Science Principles course. The price of this course is \$1,000 for the workshop and \$1,500 for a 2 year license for the Computer Science Principles course for the teacher to use with the AP CSP students.

TEA Program Requirements Cont'd

4. Describe the course curriculum for classroom instruction. List any curriculum, technology, and/or equipment required for the course.

Online Annual licenses occur on a per teacher basis, and include curriculum, support, and Codio student accounts for the UTeach CS course. The teacher and each AP Computer Science Principles student will need access to a computer with an internet connection and software for developing programs and creating other computational artifacts. Here is how the grant funds will be allocated. We need licenses for one teacher to teach the course. There is a cost of \$1,500 for a 2- Year CSP License. The 35 hour Professional Development is \$1,000 that covers AP CSP. The teacher incentive or stipend is \$1,500. \$1,000 will be used for materials and supplies for the course.

5. Describe how students will be supported in selecting and succeeding in the AP CSP course. How does this course support the student's program of study or graduation plan? The LEA must include a plan for ensuring that students take and pass the AP CSP exam.

Students who have an interest in STEM and/or computer science areas, marginalized students, those interested in gaming, coding, technology, logical reasoning, and students who are strong in math and/or science will be targeted for recruitment for the course. The Greenville HS counselors will share information about the course as students plan their schedules. AP Computer Science Principles can count as one-half credit under Professional Communications (CTE) towards graduation credits. Students enrolled in AP CSP will receive Avid tutoring weekly, learn from the UTeach program which is a College Board approved program, and take pre-tests to measure comprehension, as tools to take and pass the AP Computer Science Principles exam.

TEA Program Requirements Cont'd

6. Describe the course evaluation procedure and outline student success measures. Describe how the LEA will ensure successful grant administration by measuring the following metrics: (a) Increase in the number of CTE completers taking an AP course; (b) Increase in participation and/or performance of students taking and/or passing the AP CSP exam; and (c) Increase in number of special populations and non-traditional students enrolled in an AP CSP course.

(a) A beginning and end of course survey will be administered to students. A data report noted the number of students taking CTE courses and the amount of students taking AP Computer Science Principles will be created to show the increase in the number of students taking CTE courses by implementing AP Computer Science Principles. (b) A report detailing the participation and performance of students taking and passing the AP Computer Science Principles exam can be created. The students taking this course will be eligible to take the AP test for Computer Science Principles which will increase the number of CTE completers taking an AP course.

(C) Offering this course will help develop college-level academic skills. During the planning year, recruitment of students in special populations and non-traditional students can be scouted as candidates for the AP Computer Science Principles course. This can be done through communication highlighting the benefits and importance of the course and the importance of representation in computer science.

7. Describe how the LEA plans to implement and sustain the AP CSP course at each campus and how the course will continued to be offered beyond the grant.

Greenville ISD plans to implement and sustain the AP Computer Science Principles course at Greenville High School through continued promotion and sharing information about the course, encouraging students to be involved, showcase student progress and success in the course, getting feedback from students about the course, community advocacy, and collaborative partnerships that can maximize resources for the course. We will rely on the CTE department and counselors to be the main point of contact and advocates of the program as students register for courses beyond the grant.

Goals, Objectives and Strategies

Describe the major goals/objectives of the proposed program. What activities/strategies will be implemented to meet those goals/objectives?

The goal of implementing AP Computer Science Principles is to increase the number of students participating in Career and Technical Education courses. This course can help students earn college credit alongside a diploma and lead to tuition savings as an undergraduate. The focus is to give students an option on the menu of course choices that will allow them to choose a pathway of interest that will lead to students pursuing pathways that will lead to them pursuing a college or career so they can become productive contributors to society. The goal of AP Computer Science Principles is to (AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs)

Greenville ISD will plan for the AP Computer Science Principles course during the 2022-2023 school year. The course syllabus will be ready by December 2022 and it will be implemented during the 2023-2024 school year. Whether it is 3-D animation, engineering, music, app development, medicine, visual design, robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. Computer science experience has become imperative for student success in the workforce of tomorrow. Our district's purpose for offering AP Computer Science Principles is geared toward making sure our students have opportunities to help students prepare for post graduation. The strategies that will be implemented to meet the objectives and goals is to offer tutoring through Avid. Also, assessing the students quarterly in Eduphoria will be used to track trend projections, as students prepare for the AP CSP exam.

Budget Narrative

Describe how the proposed budget will meet the needs and goals of the program, including for staffing, supplies and materials, contracts, travel, etc. If applicable, include a high-level snapshot of funds currently allocated to similar programs. Include a short narrative describing how adjustments will be made in the future to meet needs.

The \$5,000 grant funds will cover the cost for implementing the AP Computer Science Principles course. The funds will be used for professional development, teacher stipend, student curriculum materials, and materials for the class.

- 2-Year License- \$1,500 (CSP)
- 35-Hour Online PD- \$1,000 (PD for AP CS Principles)
- Teacher incentive or stipend- \$1,500
- Materials and supplies - \$1,000

Appendix I: Amendment Description and Purpose (leave this section blank when completing the initial application for funding)

An amendment must be submitted when the program plan or budget is altered for the reasons described in the "When to Amend the Application" document posted on the Administering a Grant page. The following are required to be submitted for an amendment: (1) Page 1 of the application with updated contact information and current authorized official's signature and date, (2) Appendix I with changes identified and described, (3) all updated sections of the application or budget affected by the changes identified below, and, if applicable, (4) Amended Budget Request. Amendment Instructions with more details can be found on the last tab of the budget template.

You may duplicate this page

Amended Section

Reason for Amendment