

# AP Digital Portfolio: Student User Guide for AP Computer Science Principles™

*Fall 2017*

<b>Welcome .....</b>	<b>1</b>
<b>Digital Portfolio Access and Class Enrollment .....</b>	<b>1</b>
Log in Using Your College Board Username and Password.....	1
Enrolling in an AP Computer Science Principles Class at Your School .....	2
Enrolling in an AP Computer Science Principles Class at a Different School.....	3
<b>Submitting Your Work in the Digital Portfolio .....</b>	<b>6</b>
Access the AP Digital Portfolio .....	6
Navigate Through the AP Digital Portfolio .....	6
Prepare your Work for Submission .....	7
Use AP CSP Written Response Templates.....	7
Upload and Download Draft Work.....	8
Submit Work as Final.....	9
<b>Preparing for the End-of-Course Exam .....</b>	<b>13</b>
Indicate Your Intent to Take the AP End-of-Course Exam .....	13
Enter Your AP Number into the Digital Portfolio .....	14
Indicate Permission to Reuse Written Performance Materials .....	15
<b>Additional Information.....</b>	<b>16</b>
Converting Your Documents to PDF.....	16
Creating Video Files.....	16

## WELCOME

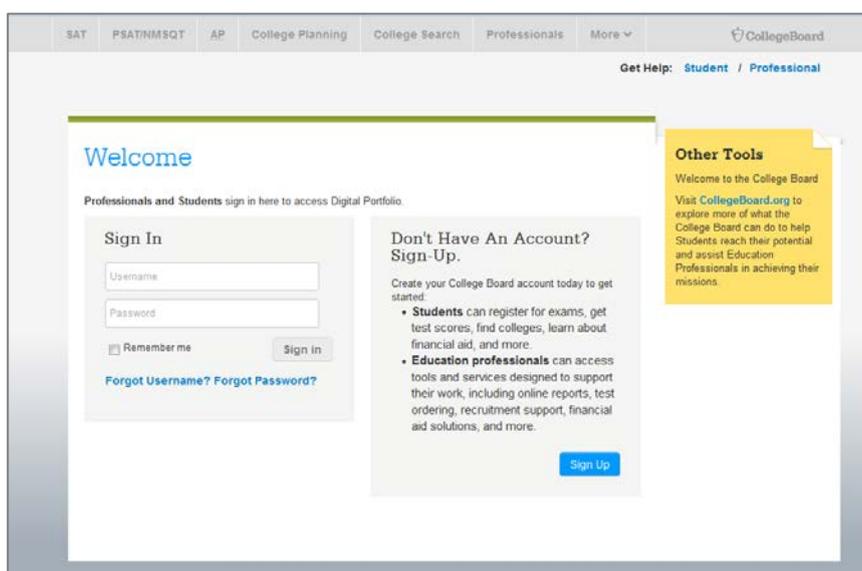
Welcome to AP Computer Science Principles! As part of this course you will work on two through-course performance tasks, Create and Explore. You will be uploading and submitting five final performance task artifacts via the AP Digital Portfolio, three artifacts for Create and two artifacts for Explore. These will be graded and form part of your final AP grade. This guide explains how to use the AP Digital Portfolio system.

- **Some key dates:**
  - November: You can start submitting performance task artifacts.
  - December to April 30: You must indicate whether you intend to take the end-of-course exam.
  - April 30: Deadline for submitting all final (5) performance task artifacts.

## DIGITAL PORTFOLIO ACCESS AND CLASS ENROLLMENT

### Log in Using Your College Board Username and Password

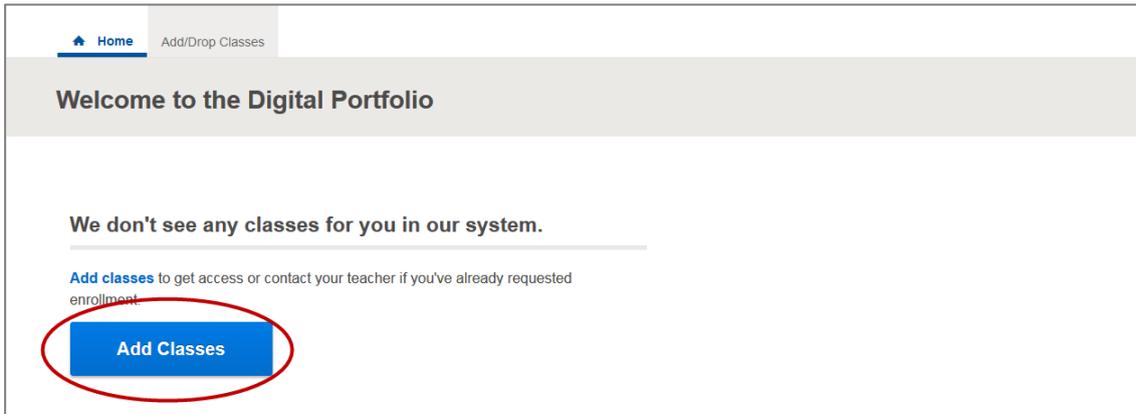
- Go to [digitalportfolio.collegeboard.org](https://digitalportfolio.collegeboard.org) and log in using your College Board username and password.
  - You may already have an account if you have taken an AP Capstone course or AP with WE Service course in a prior year, viewed AP® scores, or registered for the SAT® online.
    - If you do not remember your account credentials, you can request your username or reset your password.
  - If you don't have an account, create a new account.

The image shows a screenshot of the College Board Digital Portfolio login page. At the top, there is a navigation bar with links for SAT, PSAT/NMSQT, AP, College Planning, College Search, Professionals, and More. The College Board logo is on the right. Below the navigation bar, there is a "Welcome" section with the text "Professionals and Students sign in here to access Digital Portfolio." On the left, there is a "Sign In" form with fields for Username and Password, a "Remember me" checkbox, and a "Sign In" button. Below the form are links for "Forgot Username?" and "Forgot Password?". On the right, there is a "Don't Have An Account? Sign-Up." section with a "Sign Up" button. A yellow box on the right side contains "Other Tools" information, including a link to "CollegeBoard.org" and a description of the tools available for students and professionals.

- Once you have signed in to your College Board account, you may be prompted to provide additional information.

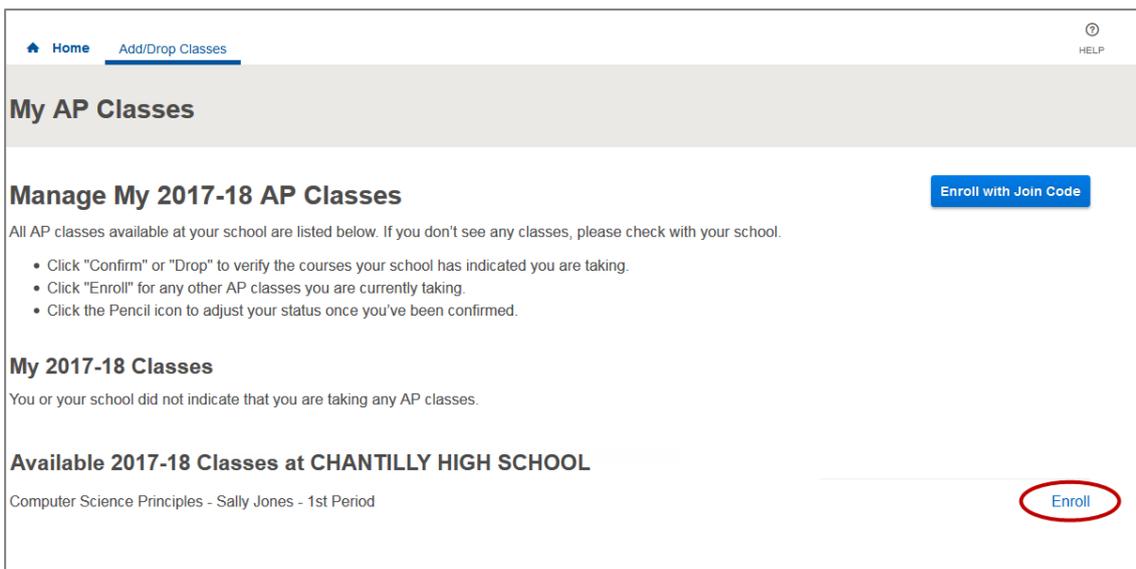
## Enrolling in an AP Computer Science Principles Class at Your School

- Visit [digitalportfolio.collegeboard.org](https://digitalportfolio.collegeboard.org) and log in using your College Board student account and password.
- If you are not enrolled in an AP CSP class for the current academic year, you will be prompted to add a class by clicking the 'Add Classes' button.



The screenshot shows the 'Add/Drop Classes' page. At the top, there are navigation links for 'Home' and 'Add/Drop Classes'. Below the navigation is a header that says 'Welcome to the Digital Portfolio'. The main content area contains the text: 'We don't see any classes for you in our system.' Below this text is a link that says 'Add classes to get access or contact your teacher if you've already requested enrollment.' A red circle highlights a blue button labeled 'Add Classes'.

- You will be redirected to the 'Manage My Classes' page and see a complete list of Digital Portfolio classes being offered at your school. You should request enrollment in the appropriate Computer Science Principles class.



The screenshot shows the 'Manage My AP Classes' page. At the top, there are navigation links for 'Home' and 'Add/Drop Classes', and a 'HELP' icon. Below the navigation is a header that says 'My AP Classes'. The main content area contains the text: 'Manage My 2017-18 AP Classes' and 'Enroll with Join Code'. Below this text is a paragraph: 'All AP classes available at your school are listed below. If you don't see any classes, please check with your school.' Below the paragraph is a list of instructions: 'Click "Confirm" or "Drop" to verify the courses your school has indicated you are taking.', 'Click "Enroll" for any other AP classes you are currently taking.', and 'Click the Pencil icon to adjust your status once you've been confirmed.' Below the list is a section titled 'My 2017-18 Classes' with the text: 'You or your school did not indicate that you are taking any AP classes.' Below this text is a section titled 'Available 2017-18 Classes at CHANTILLY HIGH SCHOOL' with a table. The table has one row: 'Computer Science Principles - Sally Jones - 1st Period'. A red circle highlights the 'Enroll' button in the table.

- When you click 'Enroll', the screen will indicate that enrollment has been requested. You will not be able to access the Digital Portfolio content until your teacher has confirmed your enrollment.

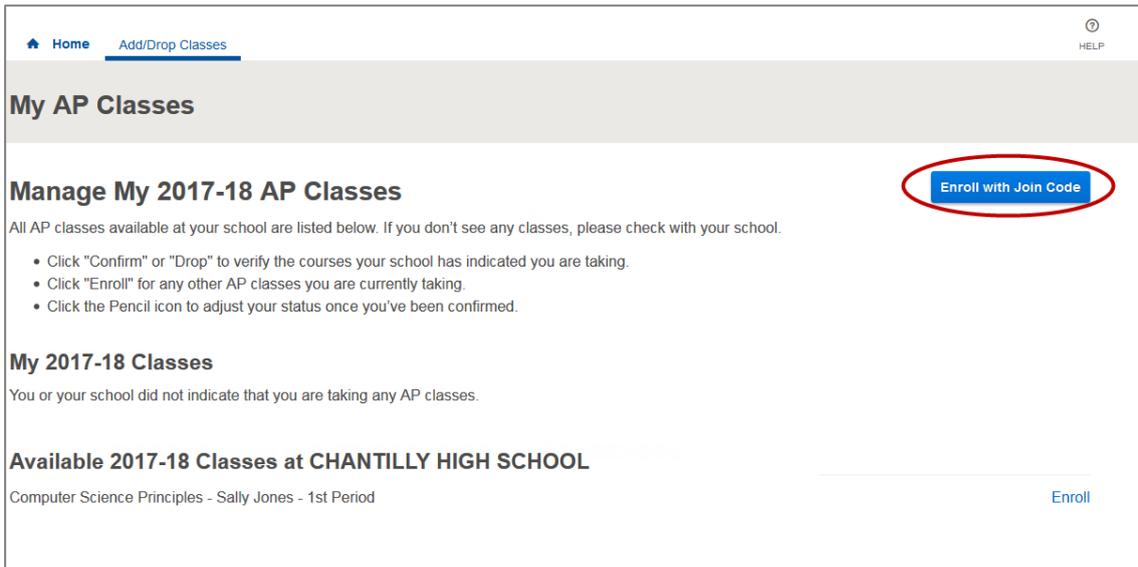
The screenshot shows the 'My AP Classes' page. At the top, there are navigation links for 'Home' and 'Add/Drop Classes', and a 'HELP' icon. The main heading is 'My AP Classes'. Below this is a section titled 'Manage My 2017-18 AP Classes' with a blue button labeled 'Enroll with Join Code'. A message states: 'All AP classes available at your school are listed below. If you don't see any classes, please check with your school.' Below this are three bullet points: 'Click "Confirm" or "Drop" to verify the courses your school has indicated you are taking.', 'Click "Enroll" for any other AP classes you are currently taking.', and 'Click the Pencil icon to adjust your status once you've been confirmed.' The next section is 'My 2017-18 Classes', which lists 'Computer Science Principles - Sally Jones - 1st Period'. To the right of this entry, the text 'Enrollment Requested' is circled in red. Below this is a section titled 'Available 2017-18 Classes at CHANTILLY HIGH SCHOOL' with the message 'There are no available AP classes at your school.'

### Enrolling in an AP Computer Science Principles Class at a Different School

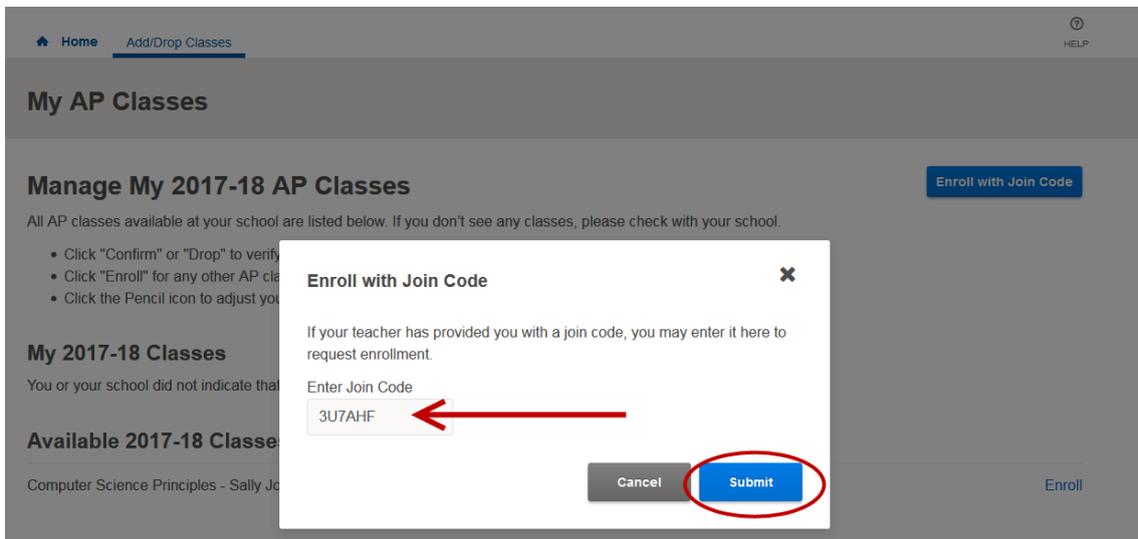
- If you are enrolling in CSP at a school other than your primary school, you should enroll with a join code provided by your CSP teacher.
- Visit [digitalportfolio.collegeboard.org](https://digitalportfolio.collegeboard.org) and log in using your College Board student account and password.
- You will be prompted to add a class by clicking the 'Add Classes' button.

The screenshot shows the 'Welcome to the Digital Portfolio' page. At the top, there are navigation links for 'Home' and 'Add/Drop Classes'. The main heading is 'Welcome to the Digital Portfolio'. Below this is a message: 'We don't see any classes for you in our system.' Below this message is a blue button labeled 'Add Classes', which is circled in red. Below the button is a link: 'Add classes to get access or contact your teacher if you've already requested enrollment.'

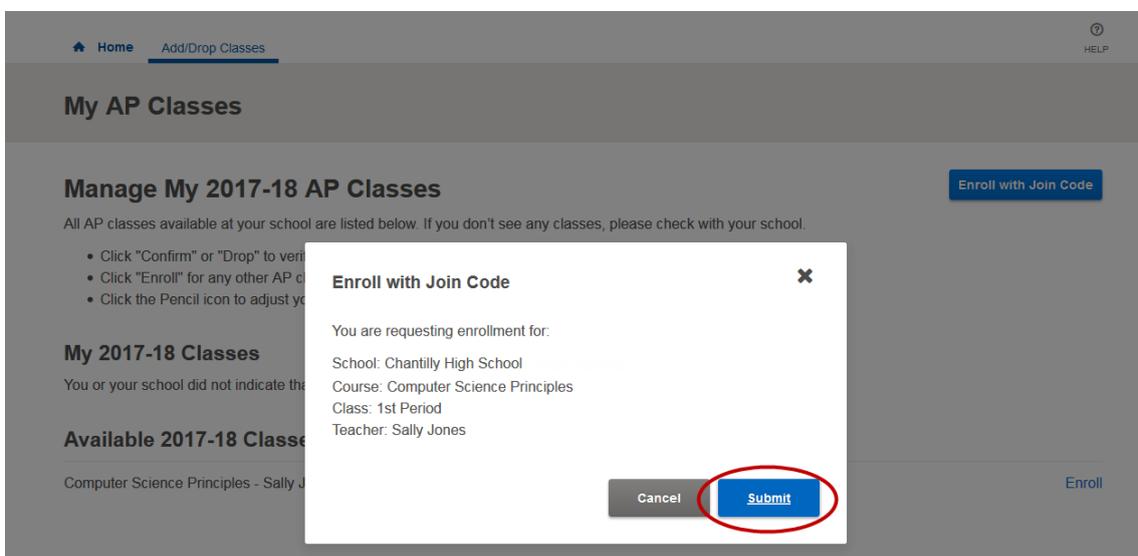
- You will be redirected to the Manage My Classes page. From there, click on the 'Enroll with Join Code' button at the top right of the page.



- Enter the Join Code your CSP teacher has provided you and click the 'Submit' button.



- Confirm that the Join Code is for the correct section and click the 'Submit' button again.



- When you click 'Submit', the screen will indicate that enrollment has been requested. You will not be able to access the Digital Portfolio content until your teacher has confirmed your enrollment.

Home Add/Drop Classes
HELP

### My AP Classes

#### Manage My 2017-18 AP Classes

All AP classes available at your school are listed below. If you don't see any classes, please check with your school.

- Click "Confirm" or "Drop" to verify the courses your school has indicated you are taking.
- Click "Enroll" for any other AP classes you are currently taking.
- Click the Pencil icon to adjust your status once you've been confirmed.

[Enroll with Join Code](#)

#### My 2017-18 Classes

Computer Science Principles - Sally Jones - 1st Period	Enrollment Requested
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#### Available 2017-18 Classes at CHANTILLY HIGH SCHOOL

There are no available AP classes at your school.

## SUBMITTING YOUR WORK IN THE DIGITAL PORTFOLIO

### Access the AP Digital Portfolio

- Once your teacher has confirmed your enrollment request you should be able to access the Digital Portfolio by logging into [digitalportfolio.collegeboard.org](https://digitalportfolio.collegeboard.org).

Home My Classes Add/Drop Classes HELP

### AP Computer Science Principles

1st Period

**Class Summary**

- Overview
- Create
- Explore

### Overview

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaborations skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

### AP Computer Science Principles Policy on Plagiarism

A student who fails to acknowledge (i.e., through citation, through attribution, by reference, and/or through acknowledgment in a bibliographic entry) the source or author of any and all information or evidence taken from the work of someone else will receive a score of 0 on that particular component of the performance assessment task.

To the best of their ability, teachers will ensure that students understand ethical use and acknowledgment of the ideas and work of others, as well as the consequences of plagiarism. The student's individual voice should be clearly evident, and the ideas of others must be acknowledged, attributed, and/or cited.

**Create**

- Individual Video
- Written Responses
- Program Code

**Explore**

- Computational Artifact
- Written Responses

### Navigate Through the AP Digital Portfolio

- The left menu allows you to select from an overall course 'Overview' or drill down into each of the performance tasks for the course you are in.

### AP Computer Science Principles

1st Period

**Class Summary**

**Create**

- Overview
- Individual Video
- Written Responses
- Program Code

**Explore**

### Individual Video

### Submission Requirement

**1. Video**

Submit one video in .mp4, .wmv, .avi, or .mov format that demonstrates the running of at least one significant feature of your program. **Your video must not exceed 1 minute in length and must not exceed 30MB in size.**

**File Upload and Submission**

Upload New

## Prepare your Work for Submission

- As part of the CSP course, you will be uploading and submitting final five performance task components via the Digital Portfolio. You must follow the guidelines for file format and size.
  - Explore
    - Computational Artifact (CA)
      - Supported File Types: .MP3, .MP4, .WMV, .AVI, .MOV, .WAV, .AIF or .PDF
      - No larger than 30MB
      - Video and audio files cannot exceed 1 minute (60 seconds)
    - Written Responses (WR)
      - Supported File Types: .PDF
      - No larger than 30MB
      - A downloadable template will be provided for you to use
  - Create
    - Video (IV)
      - Supported File Types: MP4, .WMV, .AVI, OR .MOV
      - No larger than 30MB
      - Video and audio files cannot exceed 1 minute (60 seconds)
    - Individual Written Responses (IWR)
      - Supported File Types: .PDF
      - No larger than 30MB
      - A downloadable template will be provided for you to use
    - Program Code (PC)
      - Supported File Types: .PDF
      - No larger than 30MB
- **Do not publicly post or share any portions of your performance tasks.**
- Written Responses need to be in PDF format. If you need help converting a file to PDF, please visit the section of this guide titled **'Additional Information - Converting Your Documents to PDF'**.
- Computational Artifact and Individual Video can be submitted as videos. For additional considerations on how to create video files for submission, please visit the section of this guide titled **'Additional Information – Creating Video Files'**.

## Use AP CSP Written Response Templates

- Use of the Written Response Template can enhance the facilitation of the scoring process. It is highly recommended that you use the Written Response Template for both performance tasks.
  - Create - Applications from Ideas Performance Tasks: This template was developed to help ensure you provide a response to all the requirements in the Create Performance Task in an organized and properly labeled manner. The Written Response Template for this task should be used for sections 2a, 2b, 2c, and 2d.

- Explore – Impact of Computing Innovations Performance Task: This template was developed to help ensure you provide a response to all the requirements in the Explore Performance Task in an organized and properly labeled manner. The Written Response Template for this task should be used for sections 2a, 2b, 2c, 2d, and 2e.
- To access the Written Response templates, navigate to the Written Responses page for the Performance Task you are working on. Then, scroll down to the ‘Download Template for Written Responses’ section.

## Upload and Download Draft Work

- Click on the performance task component for which you’d like to upload a document. Select ‘Upload New’ and indicate the file you wish to upload. When the upload is complete, you will see a comment in the activity feed, and the ‘Download Latest’ options will become available.

The screenshot displays the AP Computer Science Principles interface for the 1st Period. On the left, a navigation menu includes 'Class Summary', 'Create', 'Explore', 'Overview', 'Computational Artifact', and 'Written Responses'. The 'Explore' section is active, showing 'Computational Artifact' as the selected item. The main content area is titled 'Computational Artifact' and contains 'Submission Requirements'. Under '1. Computational Artifact', it states: 'Your computational artifact must provide an illustration, representation, or explanation of the computing innovation's intended purpose, its function or its effect. The computational artifact must not simply repeat the information supplied in the written responses and should be primarily non-textual.' Below this, it says: 'Submit a video, audio, or PDF file. Use computing tools and techniques to create one original computational artifact (a visualization, graphic, video, or audio recording). **Acceptable multimedia file types include .mp3, .mp4, .wmv, .avi, .mov, .wav, .aif, or .pdf format. PDFs must not exceed 3 pages in length. Video or audio files must not exceed 1 minute in length and must not exceed 30MB in size.**' At the bottom, the 'File Upload and Submission' section features an 'Upload New' button, which is highlighted by a red arrow pointing to it from the right.

- Once you've uploaded a document, it will be available for you and your teacher to download.
  - Your work will not be sent to the College Board for scoring until you submit it as final.
  - You can download the most recently uploaded document by clicking the 'Download Latest' button, or by clicking the link in the Activity Feed. Prior versions of a submission can be retrieved via the Activity Feed.

The screenshot shows the AP Computer Science Principles interface for a Computational Artifact submission. On the left is a navigation menu with 'Class Summary', 'Create', and 'Explore' (selected). Under 'Explore' are 'Overview', 'Computational Artifact' (selected), and 'Written Responses'. The main content area is titled 'Computational Artifact' and includes 'Submission Requirements' and 'File Upload and Submission' buttons. The 'File Upload and Submission' section has three buttons: 'Upload New', 'Download Latest' (circled in red), and 'Submit Final'. The 'Activity Feed' section shows a post by Robyn Schultz from August 11, 2016, with the text 'Uploaded a new version: Computational\_Artifact.pdf' (circled in red).

## Submit Work as Final

- ***You must submit your work as final in order in order for your work to be sent to the College Board.***
- Once your teacher tells to do so, you should submit your written work as final.
- Remove your name and any other personally identifying information from written work prior to submitting final.

- Click on the performance task component that you want to submit as final. Click 'Submit Final' to submit the most recently uploaded file as final.

AP Computer Science Principles  
1st Period

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Class Summary

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Create

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Explore

- Overview
- Computational Artifact**
- Written Responses

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## Computational Artifact

### Submission Requirements

#### 1. Computational Artifact

Your computational artifact must provide an illustration, representation, or explanation of the computing innovation's intended purpose, its function or its effect. The computational artifact must not simply repeat the information supplied in the written responses and should be primarily non-textual.

Submit a video, audio, or PDF file. Use computing tools and techniques to create one original computational artifact (a visualization, graphic, video, or audio recording). **Acceptable multimedia file types include .mp3, .mp4, .wmv, .avi, .mov, .wav, .aif, or .pdf format. PDFs must not exceed 3 pages in length. Video or audio files must not exceed 1 minute in length and must not exceed 30MB in size.**

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#### File Upload and Submission

[Upload New](#) [Download Latest](#) [Submit Final](#) ←

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#### Activity Feed

**Robyn Schultz** | Thu August 11, 2016 at 1:41PM  
Uploaded a new version: [Computational\\_Artifact.pdf](#)

- A window will appear asking you to confirm several things before you complete your final submission:
  - *that you have reviewed the file and it is correct (checkboxes will remain inactive until you view your file)*
  - *that you have removed your name personally identifying information from your submission*
  - *that you understand that changes to your submission cannot be made after you complete the final submission process*

### Final Submission ✕

You are about to submit the following as your final submission for Computational Artifact. You must click and open the file below to verify that it is correct.

[Computational\\_Artifact.pdf](#)

I have reviewed the uploaded file to ensure it is the correct version.

I have confirmed that my file does not contain my name or any other personally identifying information.

I understand that I will not be able to make any changes to my file once I complete the final submission process.

- Then, you will attest to the originality of your work, that you have read the performance task directions, and that you did not collaborate on any submissions in which collaboration is not allowed.

### Final Submission ✕

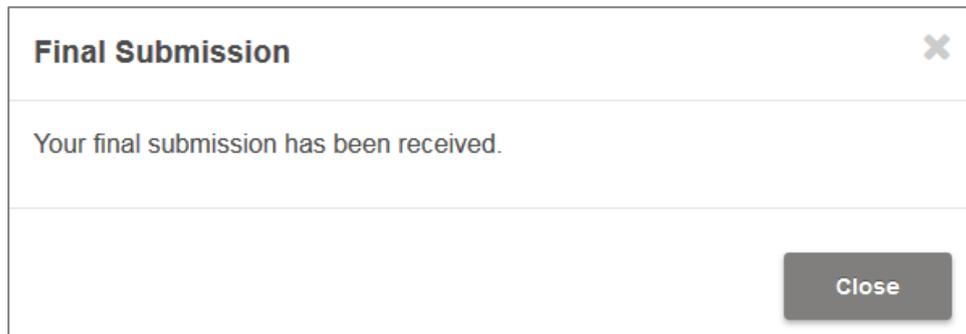
I hereby affirm that the work I am submitting is my own and that I have read and understand the [AP Computer Science Principles Policy on Plagiarism](#).

I hereby affirm that the work I am submitting is my own and that I have read the [AP Computer Science Principles Assessment Overview and Performance Task Directions for Students](#).

I hereby affirm that I did not collaborate on any of the following:

- Individual written response for the Create Performance Task.
- Individual video for the Create Performance Task.
- Any portion of the Explore Performance Task.

- For Create Program Code, before attesting to the originality of your work, you will then be asked to indicate the programming language you used for your work. Your choice will NOT have an impact on your score.
- After clicking 'Submit' you will receive a confirmation window that your final submission has been received.



## PREPARING FOR THE END-OF-COURSE EXAM

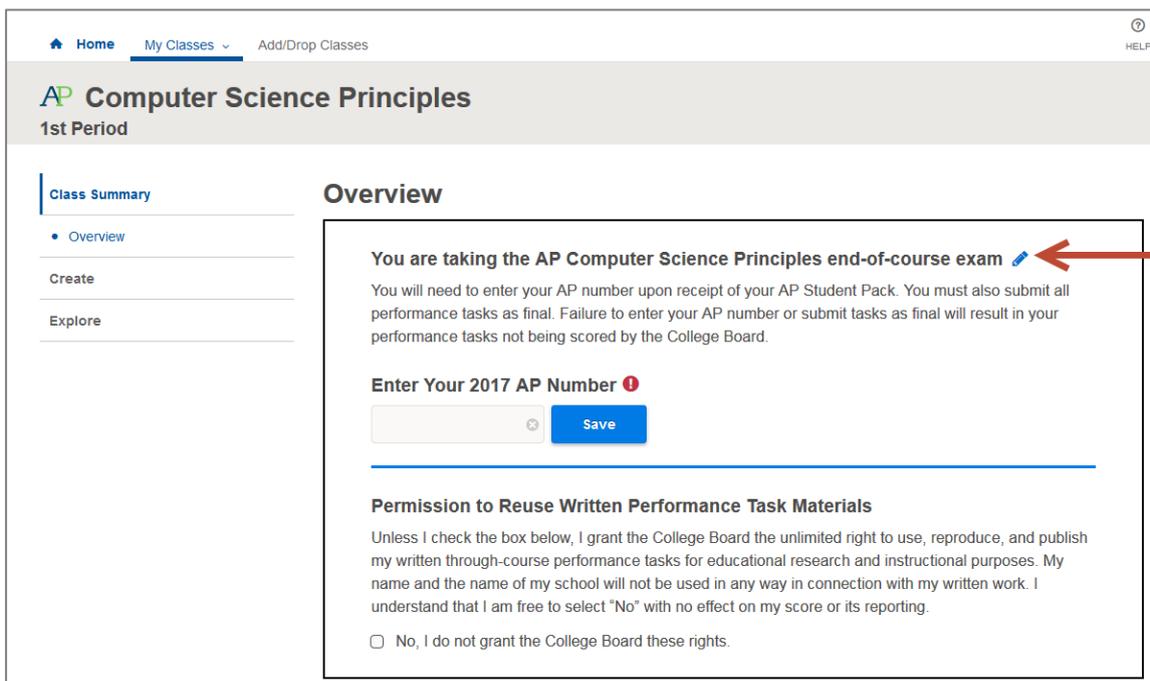
- If you are taking the AP end-of-course exam, you must:
  - Submit your work as final
  - Indicate your intent to take the AP end-of-course exam
  - Enter your AP Number
- ***If you do not complete all three steps, your work will not be submitted to the College Board for scoring.***

### Indicate Your Intent to Take the AP End-of-Course Exam

- Starting in December, you will be prompted to indicate whether or not you intend to take the end-of-course exam. You must provide a response by April 30.
- You can indicate your intent-to-take exam question by navigating to the Overview page.

The screenshot shows the AP Computer Science Principles interface. At the top, there are navigation links for Home, My Classes, and Add/Drop Classes, along with a HELP icon. The page title is "AP Computer Science Principles" and it indicates "1st Period". On the left, a "Class Summary" sidebar lists "Overview", "Create", and "Explore". The "Overview" link is highlighted with a red arrow. The main content area is titled "Overview" and contains a red-bordered box with the question: "Are you taking the AP Computer Science Principles end-of-course exam in May?" Below the question is a subtext: "You must indicate whether you are taking the end-of-course exam by April 30." and two buttons: "Yes" and "No". Below this is a section for "Enter Your 2017 AP Number" with a red warning icon and a subtext: "You must indicate that you are taking the end-of-course exam before entering your AP number". There is an input field with a clear button and a "Save" button. At the bottom, there is a "Permission to Reuse Written Performance Task Materials" section with a paragraph of text and a radio button option: "No, I do not grant the College Board these rights."

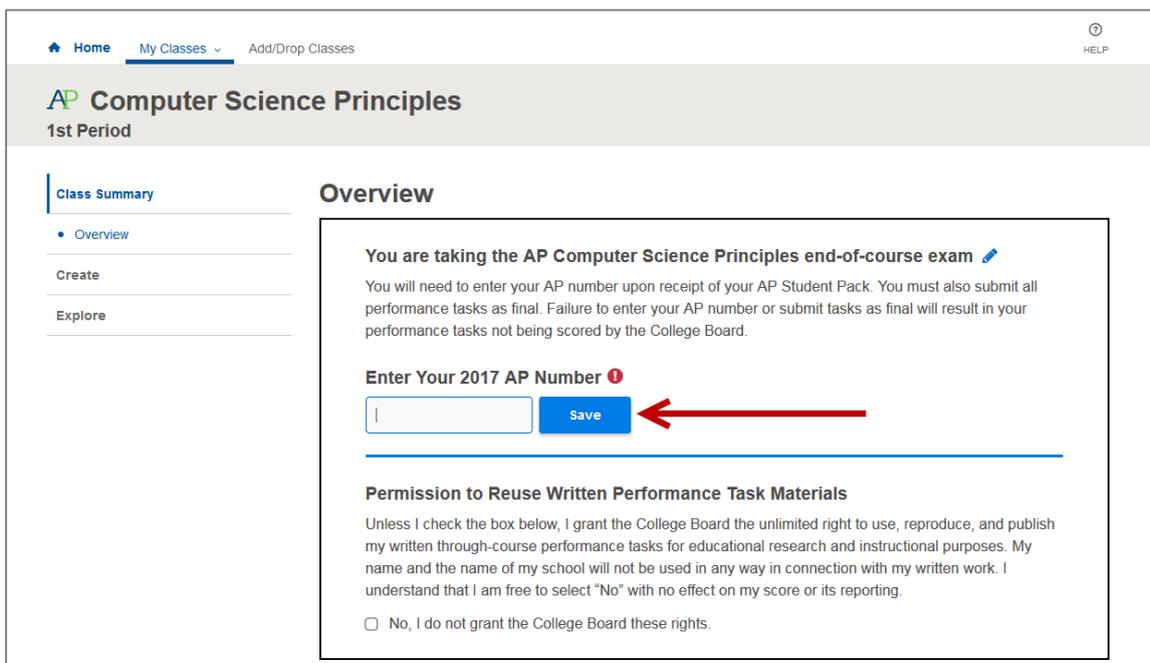
- Once you answer the question, you can edit your decision by clicking on the pencil icon.



- You must still work with your AP Coordinator to ensure an end-of-course exam is ordered on your behalf.**

### Enter Your AP Number into the Digital Portfolio

- You will receive your AP Student Pack in early April from your teacher or AP Coordinator. Each Student Pack contains a unique AP number that you should use for all AP exams you take in a given school year.
- Starting April 1, you can enter your AP number by logging in to the AP Digital Portfolio and navigating to the Overview page.



- Be careful when entering in your AP number – if incorrectly entered, you score reports may be delayed.
- Never use an AP number from a prior year and never share your AP number with another student.
- You must enter an AP number into the Digital Portfolio in order for your work to be sent to the College**

**Board.** All performance tasks that a student has submitted as final will automatically be sent to the College Board on April 30, as long as an AP number is associated with the Digital Portfolio account.

## Indicate Permission to Reuse Written Performance Materials

- You also have the opportunity to indicate whether you provide the College Board permission to reuse your work for educational research and instructional purposes. This does not impact your score.

Home My Classes Add/Drop Classes HELP

### AP Computer Science Principles

1st Period

Class Summary

- Overview
- Create
- Explore

### Overview

**You are taking the AP Computer Science Principles end-of-course exam**

You will need to enter your AP number upon receipt of your AP Student Pack. You must also submit all performance tasks as final. Failure to enter your AP number or submit tasks as final will result in your performance tasks not being scored by the College Board.

**Enter Your 2017 AP Number**

**Permission to Reuse Written Performance Task Materials**

Unless I check the box below, I grant the College Board the unlimited right to use, reproduce, and publish my written through-course performance tasks for educational research and instructional purposes. My name and the name of my school will not be used in any way in connection with my written work. I understand that I am free to select "No" with no effect on my score or its reporting.

No, I do not grant the College Board these rights.

## ADDITIONAL INFORMATION

### Converting Your Documents to PDF

- For the Written Responses and Program Code submissions, you must upload a .pdf (or PDF) version of document. PDF stands for “Portable Document Format.”
- Recent versions of applications like: Word, PowerPoint, Pages, and Google Docs, have built-in features that allow you to save or export your file as a PDF. Instructions are provided below.
- If your software does not have a PDF option, visit the Adobe site and learn more about whether [Acrobat from Adobe Systems](#) can convert your document to PDF.
- You are responsible for ensuring that your file is properly formatted and readable. After you have created your PDF, be sure to check it by opening and reviewing your PDF in [Adobe Reader](#), a free application that can be downloaded from the Adobe site. The College Board is not affiliated with Adobe Systems and is not responsible for any issues associated with your use of the Adobe Systems converter. If you need technical support or have questions, please contact Adobe Systems directly.
  - **Microsoft Office (Word, PowerPoint)**
    - In Word, PowerPoint, and other Microsoft Office programs you will “Save as PDF.” Visit the Microsoft Office support page for more information about [“Save as PDF.”](#)
    - To save a Word or PowerPoint document as PDF:
      - Open your Word or PowerPoint document.
      - From the top menu select “File,” and select “Save As.”
      - In the dialog window, go to the drop-down menu for “Save as type,” and select “PDF.”
      - Click “Save.”
  - **Google Docs**
    - In Google Docs, you will “Download as” PDF. Visit the Google support page for more information on [“Download a file.”](#)
    - To download a Google Doc as a PDF:
      - Open your Google doc
      - From the top menu select “File,” and select “Download as,” and select “PDF Document (.pdf)”
  - **Pages**
    - In Pages, you will “Export to” PDF. Visit the Apple support page for more information or follow the steps below:
      - Open your Pages document.
      - From the top menu select “File,” and select “Export to,” and select “PDF.”
      - In the dialogue window select “Best,” image quality.
      - Choose a destination for the export and click “Export.”

### Creating Video Files

- For the Computational Artifact and Individual Video submissions, you have the ability to submit audio or video files.
- These files must be *no larger than 30MB and are limited to 1 minute* in length.

- While you can use any method to produce the video, screen captures tools are known to generally create screen capture files of the appropriate sizes. An example of a web-based screen capture tool is:
  - Screencast-O-Matic (<http://www.screencast-o-matic.com/>)
- If you use other video tools, do not select HD resolution to help limit file sizes.
- Do not use YouTube to submit any video.
- ***Do not publicly post or share any portions of your performance tasks.***