



WELCOME TO AP COMPUTER SCIENCE PRINCIPLES

Mrs. Ogletree

2023-2024



About Mrs. Ogletree

cogletree@madison-schools.com

- ⚙ See Bio & Agendas on Teacher Webpage at www.madison-schools.com/ogletree
- ⚙ 2023-24 Classes
 - ⚙ Intro to Engineering Design and AP Computer Science Principles at MCHS on A-days
 - ⚙ Intro to Engineering Design at Rosa Scott on B-days
- ⚙ Robotics Club Co-Sponsor





Engineering Academy Courses

Introduction to Engineering Design (IED)

Principles of Engineering (POE)

AP Computer Science Principles (APCSP)

Aerospace Engineering (AE)

Digital Electronics (DE)

Engineering Design & Development (EDD)*

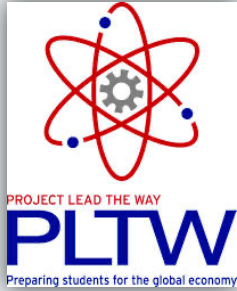
***Engineering Internship Opportunity**



AP Computer Science Principles (APCSP)

Course Description

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (APCSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the APCSP assessment.



Units covered in APCSP


UNIT 1: Creative Computing for All

UNIT 2: Every Bit of the Internet


UNIT 3: Little Data to Big Data

UNIT 4: Solving Complex Problems

Class Syllabus & "Back to School" Handout & "Canvas Observer" Instructions



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Cam Bilbro Ogletree

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DESIGN](#)



Mrs. Cam Ogletree

Hello!

I have had the pleasure of being a faculty member of Madison Central since 2009 and have been teaching classes at Rosa Scott since 2012. My husband Jeff and I have lived in Madison since 1987 and have [three sons](#) and a [daughter-in-law](#), all graduates of Madison Central. I currently teach two courses, Introduction to Engineering Design and AP Computer Science Principles, for the [Academy of Engineering](#) and am one of the sponsors of the [Robotics Club](#) which is made up of students from Rosa Scott and Madison Central. I also serve as Madison Central's website manager.

I earned a bachelor's degree in Business Information Systems and Quantitative Analysis from Mississippi State University in 1985. After working 20 plus years in corporate Information Technology departments, serving in several different capacities, I decided to follow my passion to teach and left the corporate workforce. In 2009, I completed the alternate route program and earned my master's degree in Business Education at Mississippi College.

My desire is to motivate my students to embrace the real world application of the courses I teach by bringing my work and academic experiences into the classroom. I am very excited to be a member of the Academy of Engineering at Rosa Scott and Madison Central and look forward to working with all of my new students and having another fun and successful year in the Jag Zone.

Phone: (601) 856-7121
Email: ogletree@madison-schools.com

Degrees and Certifications:
Bachelors Degree in Business Info Systems & Quantitative Analysis
Masters Degree in Business Education

Educational Certifications/Endorsements include:
National Board Certified Teacher (NBCT)
ICATY Certification
C.O.G.L. Certification
PLTW Intro to Engineering Design Certification
PLTW AP Computer Science Principles Certification
Master Teacher Economics
105 Business Education (7-12)
111 Computer Applications (K-12)
188 General Sciences (7-12)
192 Social Studies (7-12)
193 Economics (7-12)
405 Business Management
413 Business Technology
928 PLTW High School STEM (7-12)
932 Career Pathway: Finance and Accounting (7-12)
933 Career Pathway: Business Management (7-12)
983 STEM (7-12)

Classes for 2023 - 2024:

- [AP Computer Science Principles](#) (MCHS only)
- [Intro to Engineering Design](#) (Rosa Scott & MCHS)

Co-Sponsor of the [Jaguars Robotics Club](#)

MCHS Website Manager

Click [HERE](#) for the instructions to become an observer of a student in Canvas

Supplies needed for class: Folder, Paper, Pen/Pencils

\$20 Supply Fee!

Optional: External Mouse (TrippLite USB/VGA/MicroSD Hub \$35 or \$10 for USB hub only)

Class Syllabus

&

"Back to School"
Handout



Madison Central's Engineering Academy

Mission/Goal of the Engineering Academy:

To advance students' ability to innovate, think critically, and collaborate to solve problems in order to prepare them for any STEM-related field of study at a 2 or 4 year college.

AP Computer Science Principles

Class Syllabus

Mrs. Ogletree

Email: cogletree@madison-schools.com

Materials:

- 1) \$20 Supply Fee (MySchoolBucks.com)
- 2) Canvas (Learning Management System) Account: Use your MSIS number and password for access.
- 3) Paper, pencil, pen (binder, folder, notebook, etc. – Your choice on how to organize paper)
- 4) Optional: Personal Earbuds (Headphones are available in the classroom)

Course Description:

Students work in teams to develop computational thinking and solve problems. Structured activities progress to open-ended projects and problems that require planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling: all students can successfully engage the problems while students showing greater achievement are challenged to work further. There are five primary course objectives.



Welcome to
AP Computer Science Principles
Mrs. Ogletree

**Active Parent
Codes:**

NG
NO GRADE



About the Teacher (<http://www.madison-schools.com/ogletree>)



Syllabus in Canvas (\$20 Fee)



Contact Information (Preferred: Email)

- o **Email:** cogletree@madison-schools.com
- o **Online Form:** found at <http://www.madison-schools.com/ogletree>



Mrs. Ogletree's CANVAS Weekly Assignments include

- o Link to Weekly Assignments from Home Page/Announcements
- o Each Week's instructions & Assignments are under Modules

Grading Structure

- ☒ **Class is weighted (10%)**
- ☒ **Minor Grades = 34% (min 1 per Week)**
- ☒ **Major Grades = 66% (min 2-3 per Term)**
- ☒ **Extra Credit (max 5 major points per Term)**

Active Parent Codes:

NG

NO GRADE

Counts as a Zero until missing work is made up and does count in average

NM

NO MEASUREMENT

Not Graded Yet, does NOT count in average

X

EXEMPT

Excused from or optional assignment
Does NOT count
in average

NG Example

Assignment is past due

Student has not submitted but will still be accepted

Assignment has already been graded

NM Example

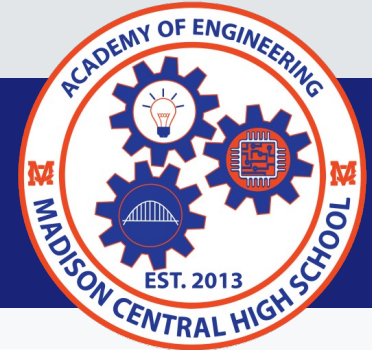
Assignment is NOT past due

Student may or may not have submitted yet

Assignment has not been graded

Curriculum Delivered Via...





Software Used...

Microsoft



Word

Excel

PowerPoint

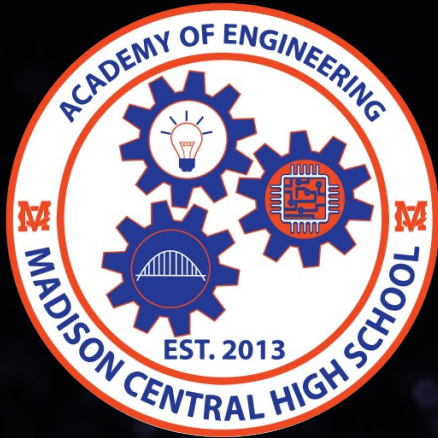
Teams

**Programming
Platforms:**

**MS Visual Studio Code
(Python)**

MIT App Inventor*

*Extra Enrichment Activities



**PLAN TO JOIN US FOR
THE ACADEMY OF
ENGINEERING SHOWCASE
AT MCHS ON
THURSDAY
APRIL 11, 2024
THANK YOU!**