

**Ms. Cordes' Syllabus**  
**7th / 8th: Femineers Engineering**

**2023 - 2024**  
**Lcordes@erUSD.org**

- The Femineer Program was created and funded by Cal Poly Pomona's College of Engineering in 2013 to inspire students to pursue STEM (Science, Technology, Engineering, and Math) in their education and career.
- The program provides K-12 students with project-based learning, engineering student mentors, and opportunities to visit Cal Poly Pomona, while building a sustainable program and community for current and future STEM leaders.
- The program engages participants through highly creative, hands-on activities.
- By engaging with real-world applications, Femineers acquire the technical knowledge and practical skills necessary to become confident and strong in their future careers.

**Creative Technology (Year 1)**

**See:  Femineer Summit Creative Robotic Project**

This is a 30-hour project in which participants learn basic electronics in a fun and engaging way. Participants learn:

- Safety procedures
- How to use tools
- How to work in teams to design robots out of everyday materials

In the first year, participants are introduced to the use of hand tools, including:

- Screwdriver
- Utility knife
- Tape measure
- Etc.

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In Creative Robotics, students learn about:

- Basic electronics
  - Wiring
  - Sensors
  - Motors
- 
- as well as operation of the Hummingbird microcontroller using Scratch programming language.

**Wearable Technology (Year 2)**

**See:  CoE Wearable Technology Video**

This is a 30-hour project that incorporates computer and advanced electronic technologies into clothing and accessories. Participants learn:

- Basic circuitry and C programming
- How to use
  - conductive thread
  - bright neopixels
  - wearable microcontrollers

In the second year, students concentrate on C programming with an Arduino controller.

Femineers design and create wearable gadgets by:

- Using conductive thread for sewing electrical circuits
- Learning to solder.

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**Pi Robotics (Year 3)**

**See:** Femineers Pi Robotics

The third-year 30-hour program is based on:

- The popular Raspberry Pi Computer
- Using the Python programming language to build a robot.

Through this process, the Femineers acquire skills that engineering students first learn in college.

**Expectations:**

-Students will have their Chromebook and either headphones or earbuds with them and fully charged every day *before* arriving to class.

-Students will login into Google Classroom daily to see and complete assignments.

Students will complete all assignments in the time allotted for that class period.

Absent Students will need to check Google Classroom after 4:30pm to find the work they missed for that day. 1 day is allowed to complete missed assignments for every day of school missed. Those students who are pulled out for school business need to check in with their teachers and are still responsible for completing the work on time just like everyone else.

-Students will follow RMS Online PBIS Matrix

-Student will ask questions, ask for help when needed, and attend HW Club if they need extra help or when mandated by the instructor.

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If a student will be absent the parent/guardian is to contact Main office :  
(562) 801-7580

**Supplies:**

ALL Classes Require using the PLTW Composition Book given to students the first day of class. This Engineering Composition Notebook is to be used for note-taking for our Femineers class only.

Composition Books may “not” be shared between subjects due to collection & grading issues.

See School Supply List in Student Handbook for the complete list.  
[rms.erUSD.org]

Most lab materials are provided by our publisher. If other lab materials are necessary, you will be notified.

**Grading:**

The A-G College Point System will be used for all classes.

A = 90 - 100  
B = 80 - 89  
C = 70 - 79  
D = 60 - 69  
F = 0 - 59

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**Office Hours:**

Tuesdays 3:00 pm - 3:30 pm  
[Check-in/Check-out -> Seek clarification. Ask simple questions. Come and Go. Do not stay the entire ½ hour.]

**After School Support :**

Friday 3pm - 4pm  
[Check-in ~. Stay for entire hour for teacher and/or peer assistance.]

**Remind:** (third party texting system for direct connection to teacher by text message). Install the Remind app on your phone or go to: [www.remind.com](http://www.remind.com)

Then, register you and your child by entering the code for your child's class listed below.

Science 7th -> Period 2: 9f3c9c9  
Femineers 7/8 -> Period 3: 7ff2e9g  
Science 8th -> Period 4: k2e239  
Science 8th -> Period 5: gc6gaag  
Science 8th -> Period 6: kd3gch  
Robotic Tech -> Period 7: fk63bg8

**We Could Use Some Help ...**



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**~ WE LOVE DOING WHAT WE DO ~**

**Have stuff laying around the house that you can't bear to throw away?**  
**Wouldn't you Absolutely LOVE to see those things put to good use?**

**Donations are Always Welcome!**

We Could Always Use ~>

- Fabric / Textiles
- Notions (sewing)
- Needles & Thread
- Thimbles & Pin Cushions
- Seam Rippers
- Working Sewing Machines
- Bobbins
- Measuring Tape
- Tailor's Chalk
- Dress Forms
- Cutting Mats & Rotary Cutters
- Safety Pins
- Lace & Ruffles
- Jewels, Sequins, Ohhhh... Shiny Objects!
- Buttons
- Zippers
- Snaps
- Patches

You get the idea 😊

Thank you in Advance!