

Introduction to Engineering Design

I'm your teacher:

Mrs. Gaines

- 13th year teaching at
 Bob Jones High School
 with experience
 teaching 4 different
 engineering classes and
 3 different math classes
- School sponsor for
 Society of Women
 Engineers and Patriot
 Racing Teams
- Married to an engineer and mom to two girls, Kay (9) and Glenne (7)
- Bob Jones High School graduate
- Bachelor of Aerospace
 Engineering Degree
 from Auburn University
- Industry experience working at Redstone Arsenal's AMRDEC
- I come to work every day because of **YOU**.
- This is my **dream job!**

What we'll do in this class:

- Learn about and use the Engineering Design Process
- Think creatively and complete design challenges
- Study measurement and statistics
- Master the basics of hand drafting
- Use 3D
 - Computer-Aided
 Design (CAD) Software
 called Onshape to
 sketch, part model,
 assemble, and draft
 your designs
- 3D Print your CAD designs on our three classroom Creality EnderPro 3D Printers
- Complete a 6-part in-class employability series led by Madison City Schools Career Coach
 - -Career Education
 - -Resume Creation
 - -Mock Interview
 - -Financial Literacy and Budgeting
 - -Engineering Panel

What you will need:

1-inch 3 ring **binder** with pockets (any color) Scientific **calculator**

Mrs. Gaines will give you your own pad of **engineering paper** to use during this course!

Classroom Needs:

White 8½ x 11" copy paper Kleenex Dry erase markers Paper towels

Follow me on Twitter! @bjhsEngineering

Email me!

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