



college forward

Juniors — East View High School

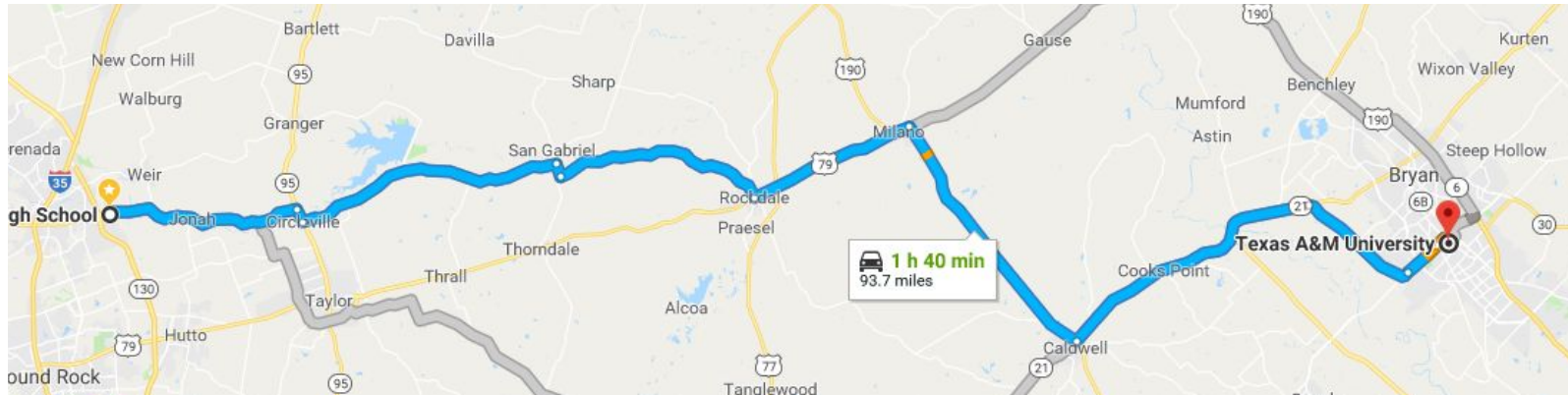
3/20/18

Agenda

- How was Spring Break?
- College and Major of the Day
- College Blingo!
- Free time to work



TEXAS A&M
UNIVERSITY



Texas A&M University, College Station

Type of school: 4-year, public school

Size: Large size (53,000 undergraduates)

Setting: Rural/Small City

Commuter or Residential?: Residential (68% of 1st-yr, 23% undergrads)

Racial makeup: 62% White, 23% Hispanic/Latino, 3% Black/AA

Female:Male ratio: 48:52

Popular Majors: Engineering, Business/Marketing, Veterinary Sciences,
Agriculture, Health Professions

<https://bigfuture.collegeboard.org/college-university-search/texas-am-university>



<https://youtu.be/0shgKKplxkQ>

Mechanical Engineering as a major

- The mechanical engineering curriculum at **Texas A&M** educates students in logical thinking - a prerequisite for professional competence.
- The curriculum consists of basic theory courses complemented by laboratory experiences in dynamic systems and controls, design, experimentation, fluid mechanics, heat transfer, manufacturing, and materials.

Mechanical Engineering - Coursework

- See example of coursework here:

<https://engineering.tamu.edu/mechanical/academics/degrees/undergraduate/bs.html>

- Engineering sciences/physics, math (calculus and higher), labs, design
- Elective courses are offered in several areas
 - air conditioning, automotive engineering, computer aided design, controls, energy conversion, internal combustion engines, manufacturing, materials, polymer processing, nondestructive evaluation, metallurgy, power generation, stress analysis, fluid mechanics, turbomachinery, and others.

Mechanical Engineering - Career Paths

- Career opportunities in industry, business, government, and the academic world.
- Roles:
 - manufacture and develop devices and machinery
 - including engines, gas turbines, automobiles, heat exchangers and electronic equipment
 - serve as consultants
 - such as air conditioning and environmental control
 - still others work in interdisciplinary areas
 - such as law, medicine, oceanography, space science, and software development.
- Median salary: \$85,000 / yr

College Blingo!