

**Transcript:** [Episode 29 / April 5, 2010](#)

Coming up next on ATE TV: Dual enrollment.

I took a lot of my core classes while in high school.

Can still do that without bending this other piece here.

Changing careers.

I'm 58 years old, studying architectural technology, planning on a second career.

And GIS technology.

When people need to know where things are in a world that's getting smaller, Geo spatial technologies and GIS is the way to go.

Now on ATE TV.

From across the country to your own backyard. ATE TV shows you the many advanced technological education opportunities available at your local community college.

Many community colleges offer dual enrollment programs. That's where high school students can receive college credit while earning their diplomas. We're headed to Stark State College to meet Michael Bucklew who took advantage of a dual enrollment program to get started as an electro mechanical engineer.

I'm Michael Bucklew I just graduated from Stark State College of Technology with my electromechanical engineering degree.

You can still do that without bending this other piece here.

I took a lot of my core classes while in high school. I was in the early college program and it's a program to take you through your associate's degree while you're still taking high school classes. I took a class learning about different types of energy, thought it was interesting.

This loop here with that.

Fuel cell technology is generating energy using hydrogen, methanol, ethanol and other biogases for the purpose of creating electricity. My dad's an electrician, just taught me how to enjoy working with my hands, how to build things and how to solve problems. The college program you get to put it together and take it apart and just learn all of the mechanics of it.

We'll have to find out what that distance is.

We really didn't calculate

I would like to see myself working for NASA, that's been one of my dreams and this is my steps I need to take in order to get there and totally see is as a stepping stone and I can move onto greater things.

Dual enrollment is an effective student success strategy and research has shown that students in dual enrollment programs are more likely to get their high school diplomas, enroll in college and obtain a degree. If you want to find out more about dual enrollment programs be sure to visit your local community college.

Community colleges not only offer early opportunities for high school students but can also assist those wanting to change careers later in life.

Next up we're going to meet Howard Ducker who is on his way to a new career in architectural engineering.

Do you have to stand in one place or do you move around the room?

Yeah you can move around.

My name is Howard Ducker. I'm 58 years old, studying architectural technology, planning on a second career. I was in business here for over 35 years and in 2004 I sold my business. I've decided to enroll at Sinclair in their lowest level math course and start working on getting rid of my math phobia.

That's the thermal energy.

I realize that I didn't want to do math for the rest of my life and I'd always had an interest in architecture but I wanted to approach it from a scientific perspective, that's why when I found out about the architecture program that they offered at Sinclair I thought it would be a good start to see whether this was something that I really wanted to do as a second career.

On the duct seal in the insulate, insulation, limited space heating, air conditioning, water heating.

I've been very much aware of the limited fossil fuel energy problem that we as a country have and the world has overall so this seemed like a perfect opportunity to learn more about the subject matter. I found my experience with the younger students very enjoyable. They're bright, young, excited about getting started so it's been very enjoyable, almost inspiring.

With these on and off.

That stays lit

My friends were very impressed quite honestly because they couldn't believe that at my age I would go back to school. They didn't think they could do it.

Why don't we have you do the instructions and I'll do the record.

My wife wanted to know how long it's gonna take before I go back to work.

Howard is not only learning new skills but he is positioning himself for a new career that will give back to the community. If you've been thinking about changing careers but aren't sure how to get started be sure to visit your local community college.

Geographic information systems or GIS is a growing technology field with a wide range of job opportunities. If you're not sure where you're headed GIS technology programs offered through community colleges can literally help you find your way.

You haven't made it yours yet.

Go up a level.

Community colleges are really offering some great opportunities to learn the applications of GIS and geo spatial technologies. The career possibilities are tremendous.

Click on the pointer button.

It's a wide variety of fields that they could look at: Agra, marine sciences, marketing, sales, law enforcement, communications, that's just whatever really interests you there's an application of geo spatial technologies to it. You want to be inside, you want to be outside, you want a little bit of both, you could be out collecting points.

Ok that's the button you want to capture your point.

For parks, ball fields whatever kind of work you're gonna be doing and then you'll take it back to the lab.

Want to make that raster map as small as it'll be.

You could be in front of a computer, high end technology, working with the best in software, on a rainy day be in the lab, on a nice sunny day be outside collecting some points it wouldn't be too bad. When people need to know where things are in a world that's getting smaller, geo spatial technologies and GIS is the way to go.

If you're looking for a career away from a desk or are interested in working with cutting edge technology then GIS might be for you. For more information on GIS programs or for more information on anything you've seen today explore our website at ATETV.org.

Thanks for watching.