

Exciting, new, STEM course for students with strong technical, creative, and problem-solving aptitudes, interested in learning about manufacturing - how things are made!

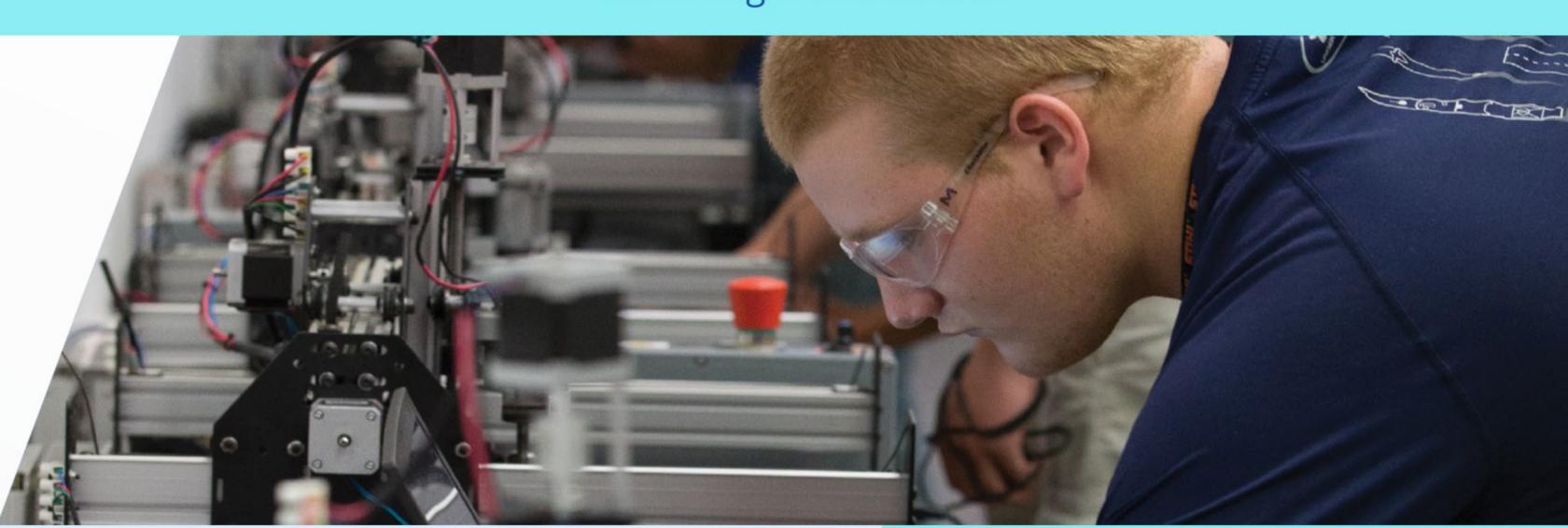


reasons for taking this course?

- 1. Learn critical, real-world, STEM skills.
- 2. Indulge your desire design, make, troubleshoot and innovate in a highly creative and technical setting.
- 3. Earn nationally-recognized certification for employment.
- 4. Preferred training path for entry-level employment as production technician/operator with local manufacturers.
- 5. Option for Dual Enrollment credits toward any of 4 BRCC Advanced Manufacturing Technology AAS Programs.*

What kind of course is this?

- 1-yr, technical course for 11th and 12th graders.
- Innovative, blended-learning, approach combining cloud-based e-learning self-study with interactive, team-oriented manufacturing simulations and trainers.
- Follows industry approved, and 1st year BRCC Adv.Mfg.Tech., curriculum.*
- Embraces failure as an opportunity for problem-solving and designed solutions.



SE Course Outline

Unit 1 - Safety

Module 1: Overview of Manufacturing

Module 2: Communication and Leadership

Module 3: Safety (People, Area, Machines)

Unit 2 - Quality Practices & Measurement

Module 4: Blueprint Reading & Measurement

Module 5: Quality, Control, & Improvement

Module 6: Mechanics, Machines and Tools

Unit 3 - Manufacturing Process & Production

Module 7: Processes: Machining and

Production

Module 8: Workflow, Production Planning,

Process Documentation, Packaging and Dist.

Unit 4 - Maintenance Awareness

Module 9: Electrical

Module 10: Pneumatics and Hydraulics

Module 11: Lubrication, Bearings, Couplings

Module 12: Drives, Controls, & Automation

Learn more about: BRCC Advanced Manufacturing AAS @

http://bit.ly/2vlMtv6

*Pending approval. Subject to change.

A sneak peek of what's in this course:



Cloud-based e-Learning **Network & Simulations**



Advanced Tools and **Trainers**



CAD & Rapid Prototype Manufacturing



Measurement and Troubleshooting



Data Analysis and Reporting



Design-based Problem-Solving



Entrepreneurial and Systems Thinking



And So Much More...

PRE-ENROLL TODAY!