

To: USD 261 BOE and Dr. Burke

From: Brett Marrs- Industrial Tech. Department Head

Re: Colt Screen Printing (Research and Design for Manufacturing)

Date: November 13, 2018

History/Relevance: This class or business was thought up several years ago when Stompin' Grounds was developed. I was brainstorming what we could do to provide our students in the Tech. Department a real world business experience. So it evolved into creating a screen printing shop that was twofold. On one side students would get the experience of running a business that they could go out after they graduate and either go straight to work or the students could start their own business in this industry. The second part is that the district could benefit from this by saving money when purchasing screen printed t-shirt and other apparel. With the average cost per shirt was 5-10 dollars per item. With this shop we can bring that cost down between 4-7 dollars per Item and possibly lower than that depending on quality of shirt. This shop would only be marketed to USD 261 Schools, clubs and athletics because if it was marketed to outside the district sources it would compete with our community screen printers. This business would be cross curricular with the students from the tech department, business department, art department, and the FACS department.

What: We are asking for approval to create this business and class. Also to follow in the footsteps of Stompin' Grounds and take out a start-up loan from the board in the amount of \$30,000. That would be paid back over time.

Why: This would be a benefit for both district and students

Where: This would be housed at Campus High School in the Tech Department.

When: This will begin in the 2019-2020 school year, with a soft start in **Fall** of 2019

How: Once this is approved I will order the equipment as needed and start recruiting students to run the shop next year. I will also reach out to business professionals and start learning the latest techniques in this industry.

Who: This class will be taught by myself. The student would have to be either a junior or senior to take this class.

How much: the cost for this class would be a loan of \$30,000 dollars that would be paid back over time.

If you have any questions, please contact me at bmarrs@usd261.com or 554-2236.

Thank you for your consideration!

New Course Proposal

Proposed Course Name: Research and Design for Manufacturing(Colt Screen Printing)

School: Campus High School

Target Audience: Juniors, Seniors

Career Pathway (If applicable):

Funded Course: Yes

Dual Credit: No

Kansas Course Code: 13998

Course Length: 2 Semester or Year

Credits: 1

Prerequisite: None

Purpose:

Justified Need: Yes

Course Description: Advanced level application course that incorporates experienced based learning including IHT or Internships supported by classroom attendance and discussion, within their area of interest/study.

Expenditures: Class books and materials for projects

Any Additional Documentation (if needed):

13998 RESEARCH AND DESIGN FOR MANUFACTURING

4 3 2 1 0 1.

Work with a client to develop a client -driven product

4 3 2 1 0 2.

Produce a working model (graphic or physical) using advanced software and/or equipment

4 3 2 1 0 3.

Demonstrate ability to apply shading and rendering techniques to 3d surfaces and solid models

4 3 2 1 0 4.

Demonstrate ability to access and utilize industry resources

4 3 2 1 0 5.

Use appropriate grammar and word usage in the creation and implementation of a formal graphic presentation using current standards and technology

4 3 2 1 0 6.

Apply principles of dimensioning/tolerances, fasteners/hardware, and power transmission

4 3 2 1 0 7.

Apply basic principles of form and function to enhance project acceptance and quality

4 3 2 1 0 8.

Utilize effective management techniques to organize work flow

4 3 2 1 0 9.

Conduct product evaluations and critique their effectiveness

4 3 2 1 0 10.

Research new technologies to meet future client needs

4 3 2 1 0 11.

Demonstrate abilities in design/planning, visual communication & problem solving in the manufacturing industry

4 3 2 1 0 12

. Integrate alternative manufacturing methods and materials in current production process drawings

4 3 2 1 0 1

3

. Demonstrate an awareness of current manufacturing standards & Methodologies

4 3 2 1 0 14.

Demonstrate ability to incorporate industry specific codes as given for a selected project

4 3 2 1 0 15.

Demonstrate ability to set and work within defined budget

4 3 2 1 0 16.

Research & use information for product development

4 3 2 1 0 17.

Manipulate materials and processes to meet client needs

4 3 2 1 0 18.

Demonstrate ability to manage and set project goals and timelines