

MATERIALS & MANUFACTURING

Course Offerings/credit

<i>Exploring Technology Processes</i>	1
<i>CADD</i>	1
<i>Intro to Engineering</i>	1
<i>Introduction to Business (earn 3 URI credits)</i>	1
<i>College Accounting (earn 3 URI credits)</i>	1

Career Choices

- Construction
- Manufacturing
- Design
- Fabrication
- Welding

Learning Opportunities

- CNC routing – Shopbot
- Welding
- Complete Wood-working facility
- 3D Printing– Mak-erbot
- Design/Build/Test
- Robotics Team

PATHWAY DESCRIPTION

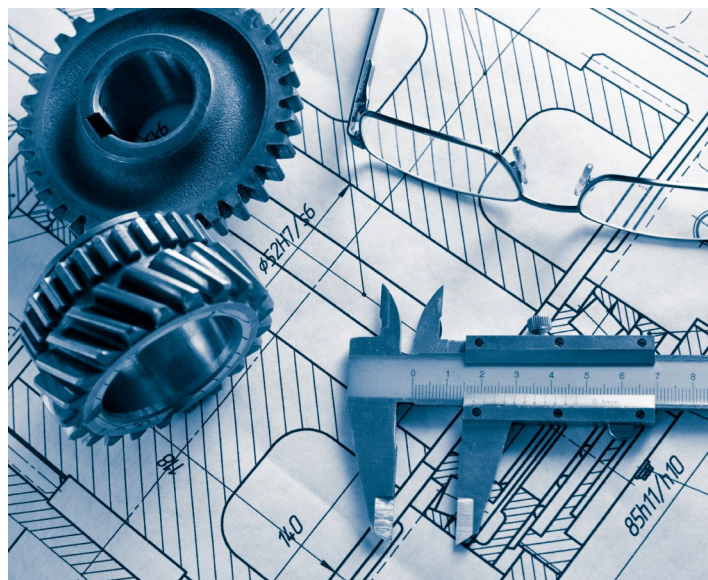
Manufacturing engineering or manufacturing process are the steps through which raw materials are transformed into a final product. The manufacturing process begins with the product design, and materials specification from which the product is made. These materials are then modified through manufacturing processes to become the required part.

Manufacturing takes turns under all types of economic systems. In a free market economy, manufacturing is usually directed toward the mass production of products for sale to consumers at a prof-

it. In a collectivist economy, manufacturing is more frequently directed by the state to supply a centrally planned economy. In mixed market economies, manufacturing occurs under some degree of govern-

ment regulation.

The materials and manufacturing pathway courses include the following electives; Exploring Technology, CADD, Introduction to Engineering, Introduction to Business and College Accounting.



PATHWAY REQUIREMENTS

Students interested in pursuing a pathway in this area should meet with their guidance counselor to select the best sequence of courses that will satisfy the North Smithfield High School graduation requirements and at the same time, meet the criteria

to receive a seal of concentration in manufacturing. Students will also develop an manufacturing, related focus which will culminate in field experience for the required senior project. It is recommended that stu-

dents choosing this concentration, actively seek postsecondary schools to further their education in this field.