

## **High Demand/Emerging Technologies Ends Policy - Understanding the Current Situation**

**Gap I** - NC State does not have a consistent systematic method for the process of linking credit and non-credit programs to the needs and demands of regional business and industry, especially in high demand and emerging technology type industries.

### **Underlying Factors:**

- High Demand / Emerging Technologies industries, roles job and skills have not been systematically and routinely identified
- While a program review process to ensure academic programming remains in sync with the requirements of regional business and industry is now being piloted, NC State has not previously had an ongoing or consistent comprehensive program review process for all programs
- It is not clear as to how often programs should be reviewed to assure we are in sync with industry trends and needs
- It is not clear as to what procedures exist for assuring the effective use or establishment of external program advisory committees

**Gap II** - The ability to provide students with the skills to be successful in business and industry requires a foundation of basic knowledge and literacy. The number of students who progress to the level to receive the training and education required by business and industries is limited because many students do not successfully complete developmental and gateway courses.

### **Underlying Factors:**

- 23% of students have not completed their reading developmental sequence after two years.
- 30% of students have not completed the developmental writing sequence after two years.
- 61% of students have not completed the math developmental sequence after two years.
- Only 46% of students successfully complete the gateway English sequence after two years.
- A significant number of students have not successfully completed the gateway math sequence after 2 years

**Gap III** - In order to prepare students with the specific skills required by regional business and industry requires the training on state-of-the art equipment and devices. NC State has not kept pace with program equipment which reflects current demands and techniques.

**Underlying Factors:**

- It is not clear that we know what equipment we need and when it has to be purchased to assure that students develop relevant and timely skill sets
- Traditional sources of funding are limited:
  - It is not clear that we have set equipment purchasing priorities
  - It is not clear that alternative strategies for obtaining funding and advanced technology have been perused to the fullest extent possible.