

# Project for Inclusive Undergraduate STEM Success

## Principle Investigators:

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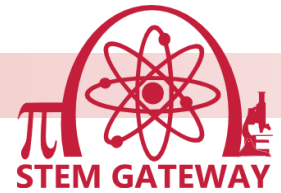
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Project Director: Tim Schroeder

*The STEM Gateway program is funded through a U.S. Department of Education TITLE V grant, 2011-2016, 100% grant funded (total anticipated funding \$3.82 million).*



**INNOVATION IS NOW GLOBAL AND STEM JOBS  
ARE FOLLOWING**

**WAGES FOR STEM WORKERS ARE HIGH AT ALL LEVELS  
OF EDUCATIONAL ATTAINMENT**

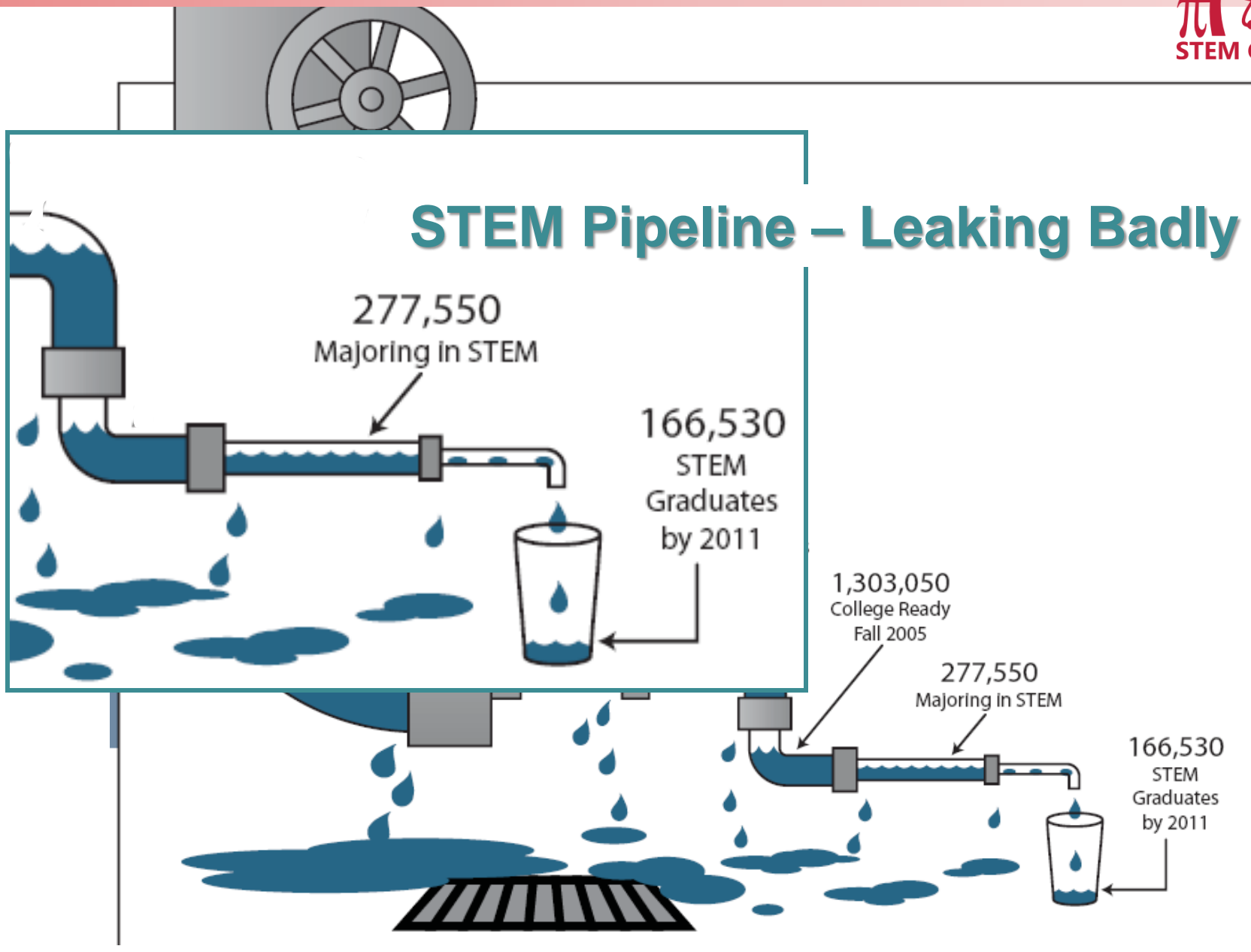
**THERE IS ADDED PRESSURE TO FIND MORE STEM  
WORKERS DUE TO BABY BOOMER RETIREMENTS**

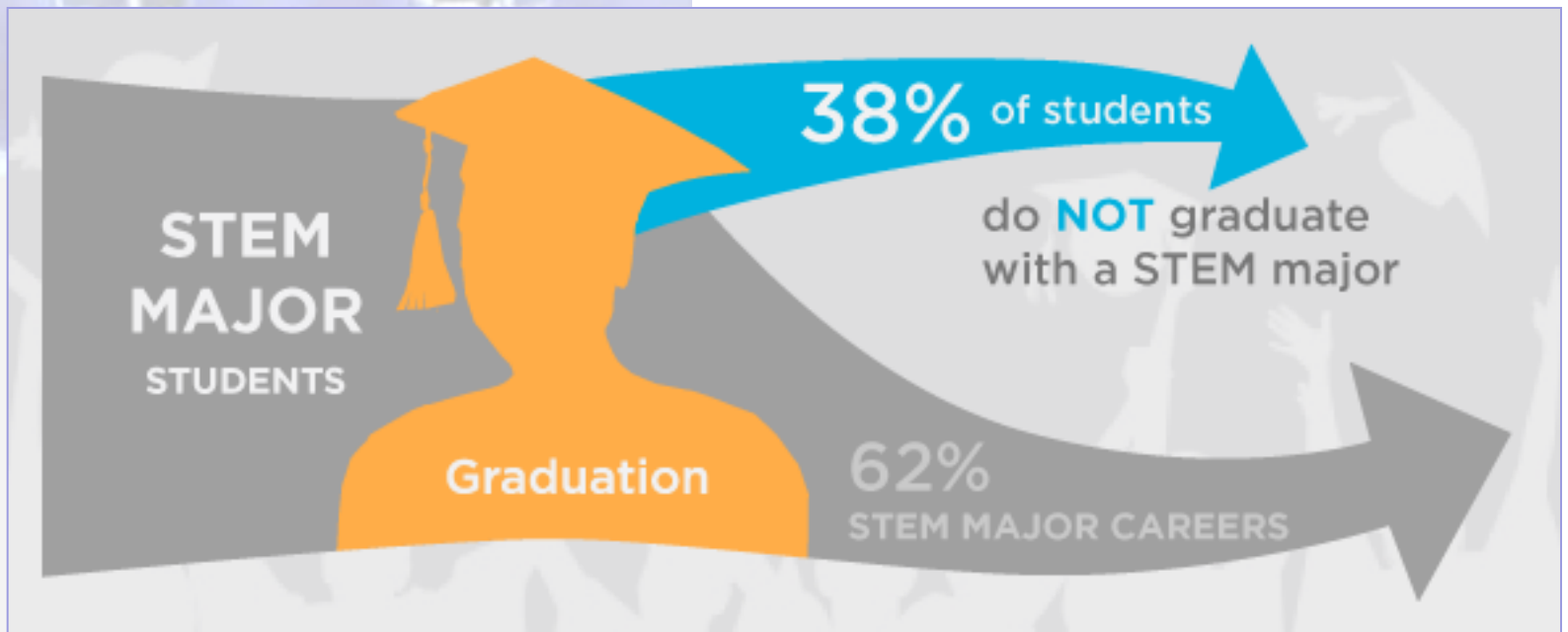
**STEM IS PROJECTED TO GROW AT 17 PERCENT  
THROUGH 2018.**

**THE NATION NEEDS MORE WOMEN AND MINORITIES  
IN STEM JOBS FOR MANY REASONS**

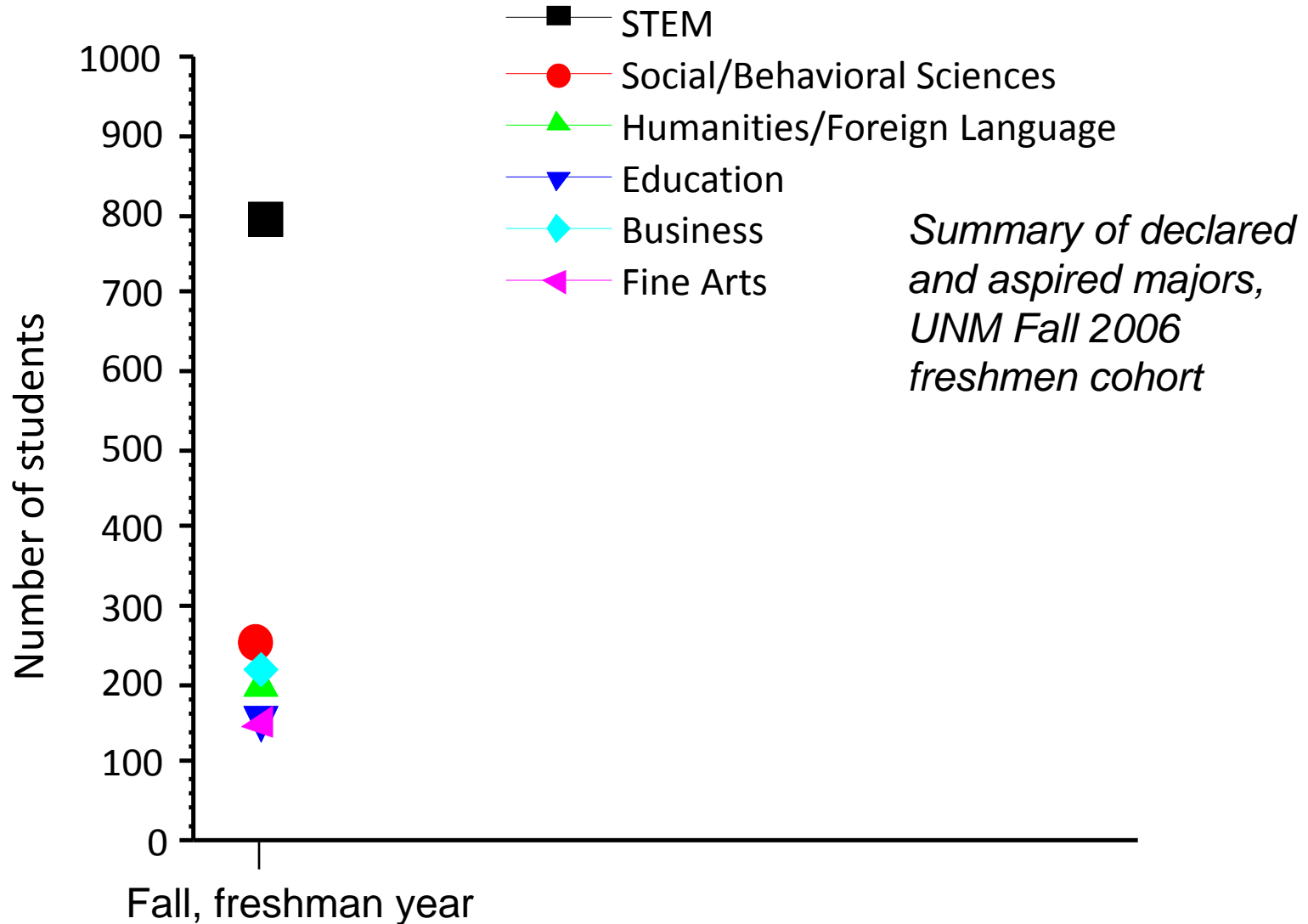
**WE ARE CURRENTLY RELYING ON FOREIGN-BORN  
WORKERS TO PLUG THE GAPS IN OUR STEM  
WORKFORCE**



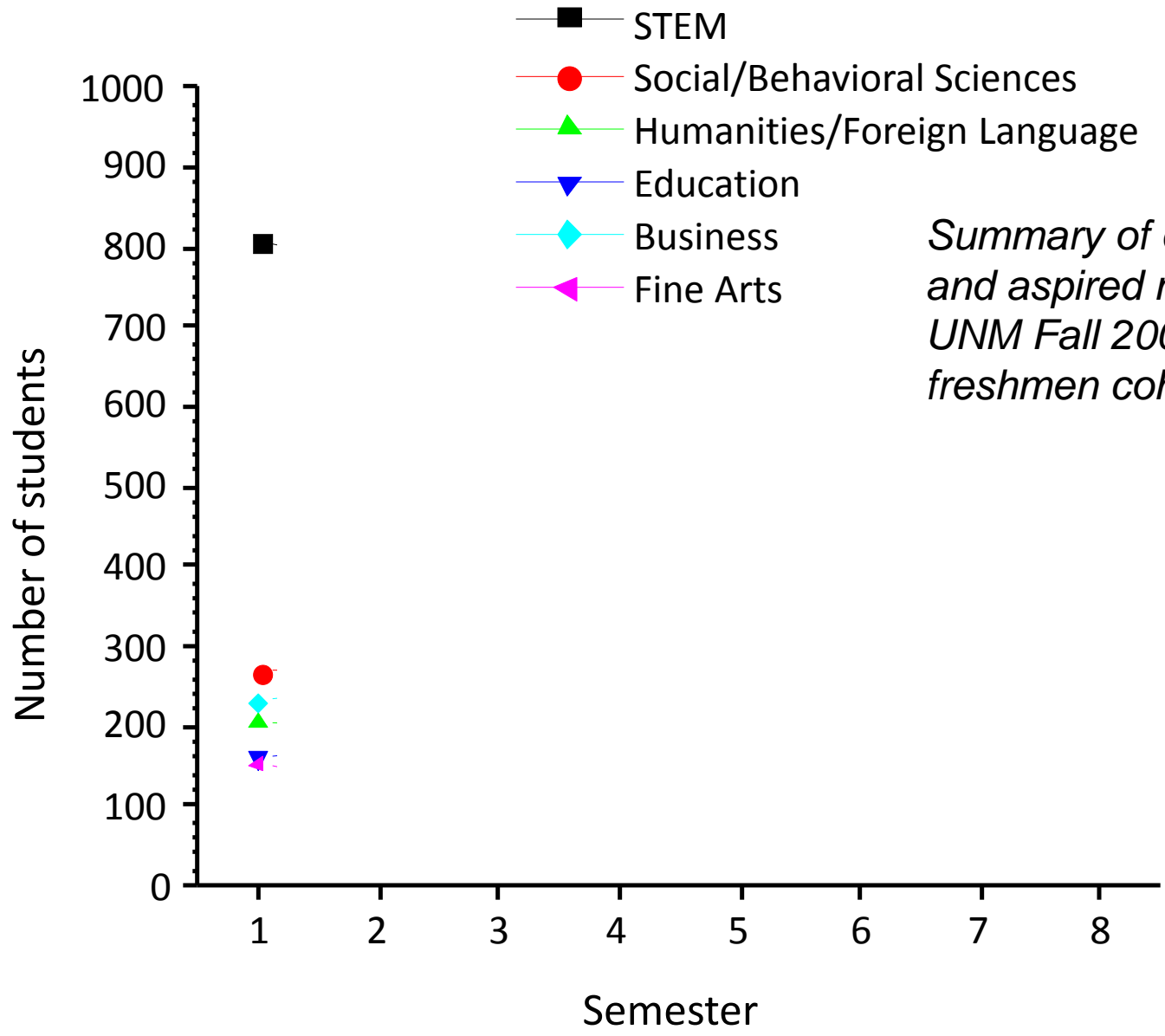
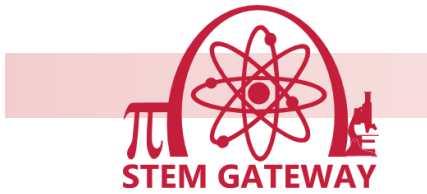




# STEM fields top the list of aspired-to majors among UNM freshmen

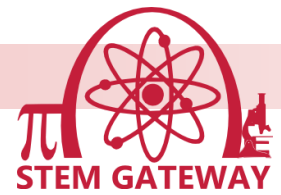


# STEM disciplines suffer the greatest undergraduate student attrition at UNM

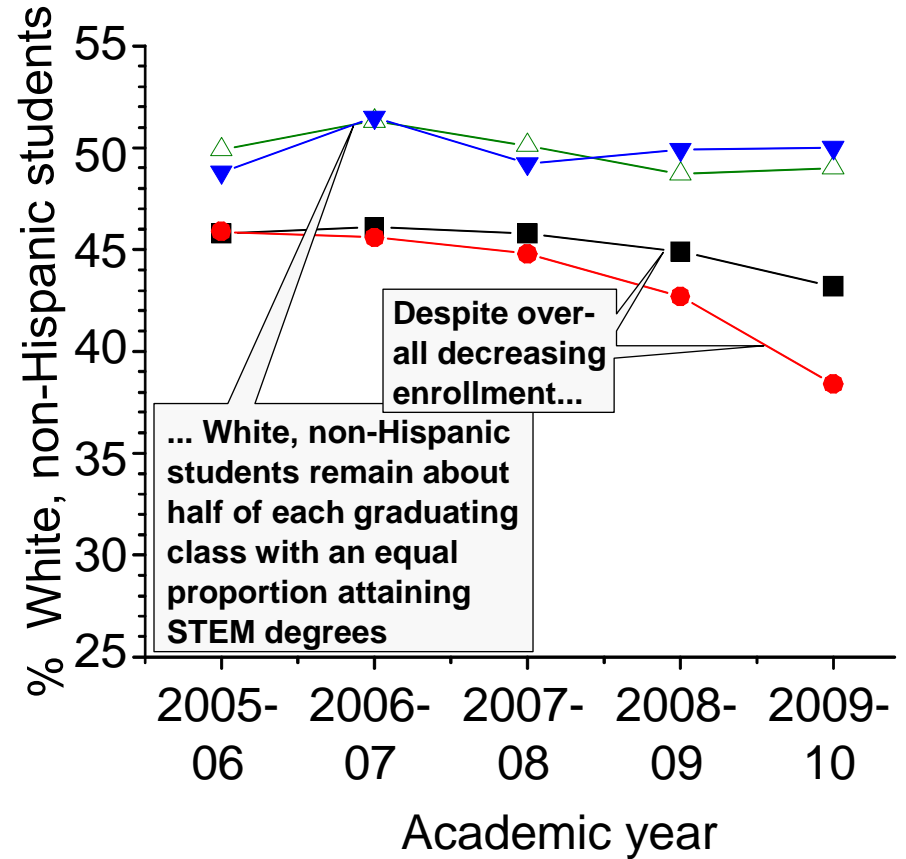
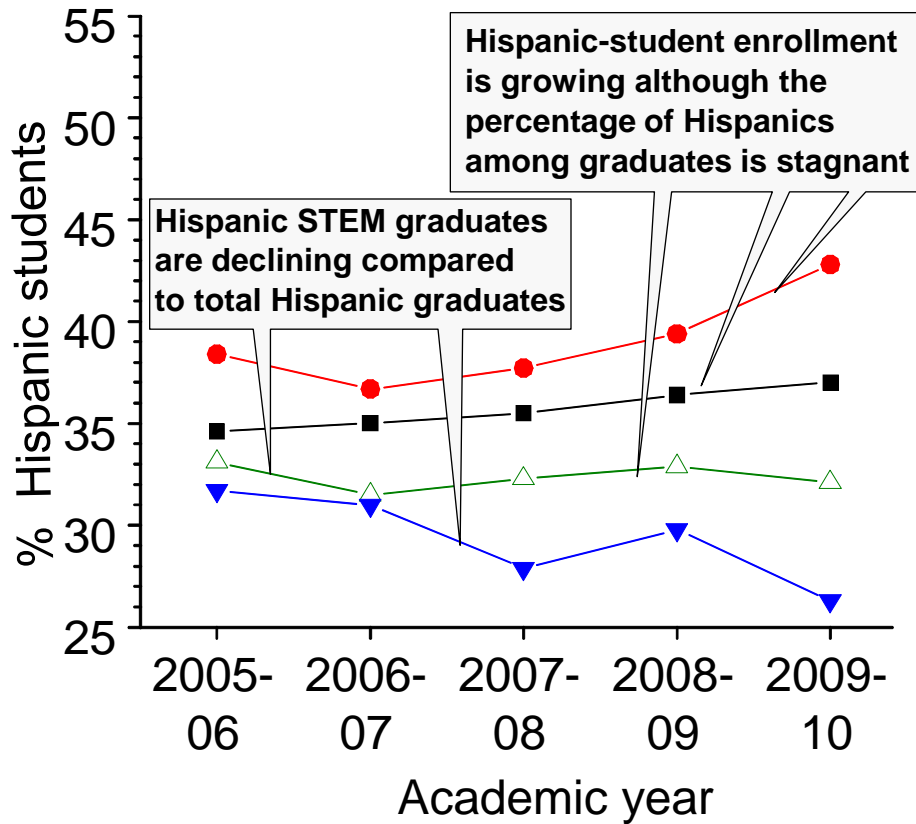


*Summary of declared and aspired majors, UNM Fall 2006 freshmen cohort*

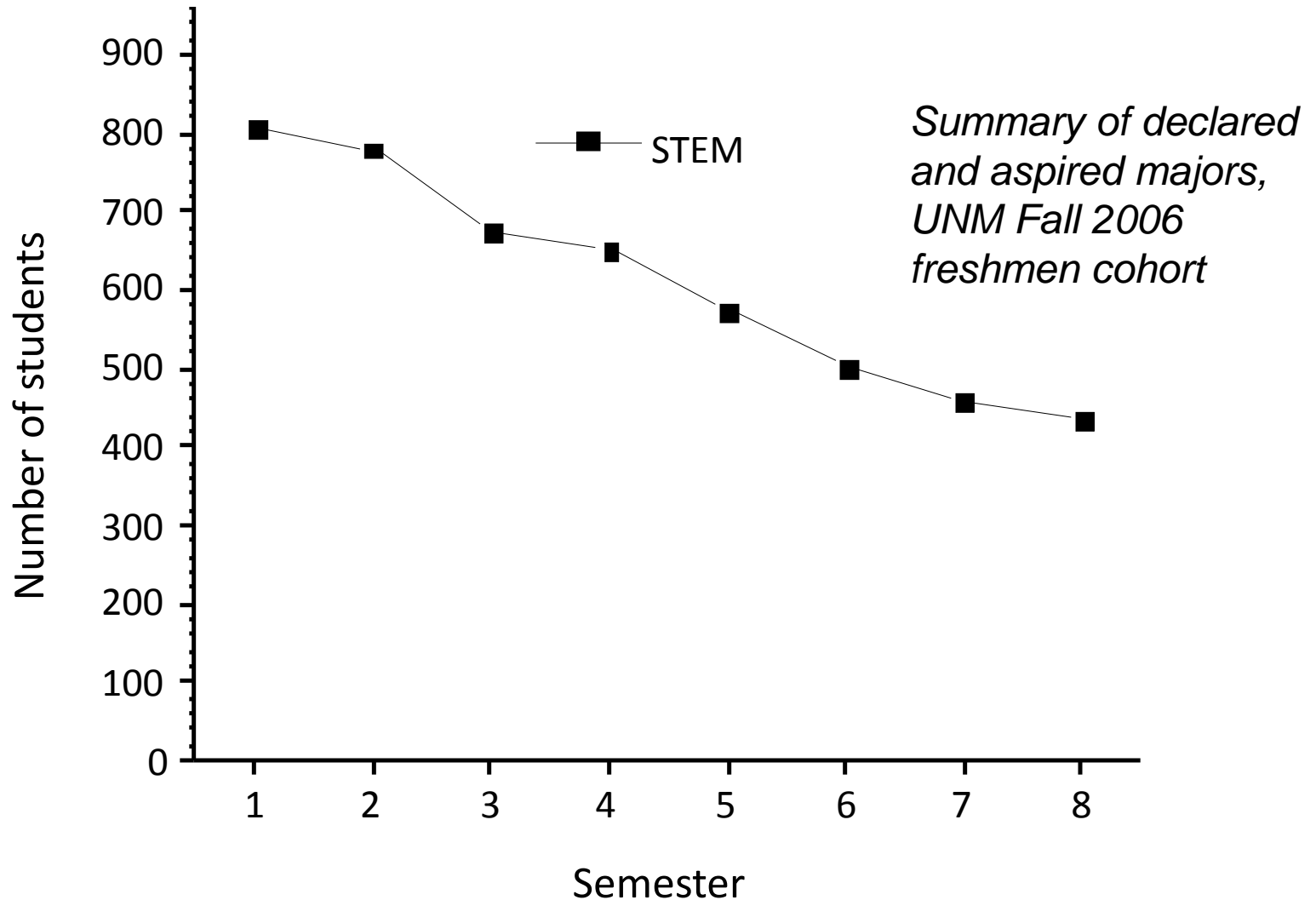
# BACKGROUND TO THE GRANT



- Total undergraduate enrollment
- Entering first-time freshmen
- △ Graduates
- ▼ STEM graduates

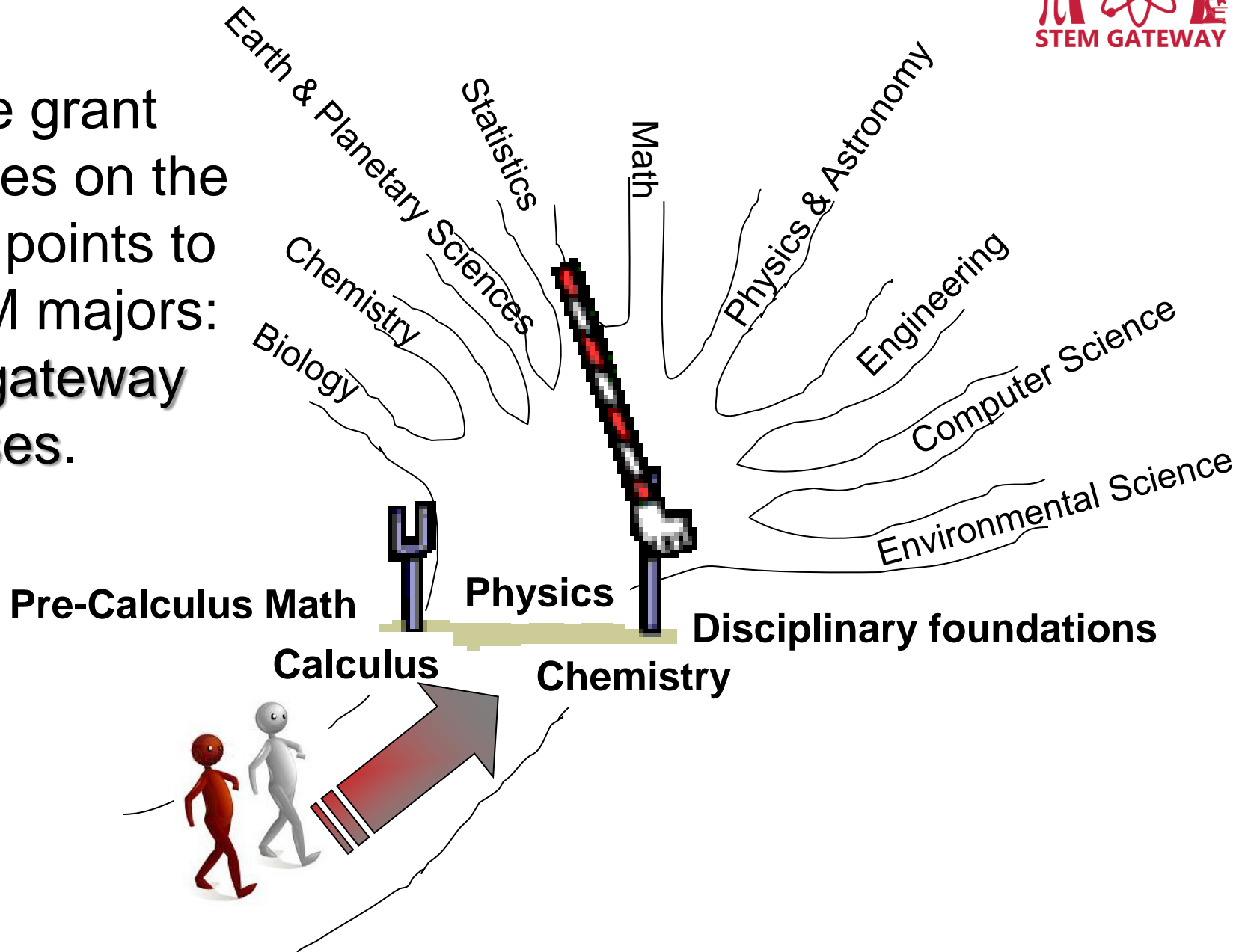


# Recalling that the tide turns after the first year ...





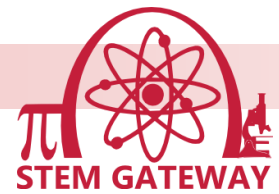
... the grant focuses on the entry points to STEM majors: The gateway courses.





**Transforming  
course experiences  
to be gateways,  
rather than  
gatekeepers**





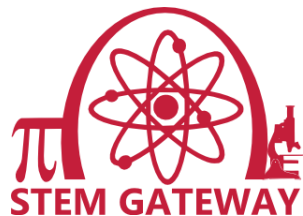
# STEM Gateway Components

GATEWAY SCIENCE AND  
MATH COURSE REFORM

BEGINNING-STUDENT  
SOCIALIZATION WITH STEM  
EXPERIENCES: *STEM  
STUDENT INTEREST  
GROUPS*

PEER-ASSISTED  
COLLABORATIVE  
LEARNING: *PEER LEARNING  
FACILITATORS*

DATA-DRIVEN DECISION  
MAKING



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