

Project for Inclusive Undergraduate STEM Success

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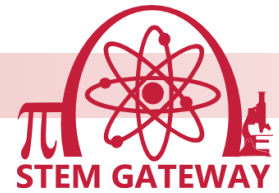
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The STEM Gateway program is funded through a U.S. Department of Education TITLE V grant, 2011-2016, 100% grant funded (total anticipated funding \$3.82 million).



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

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

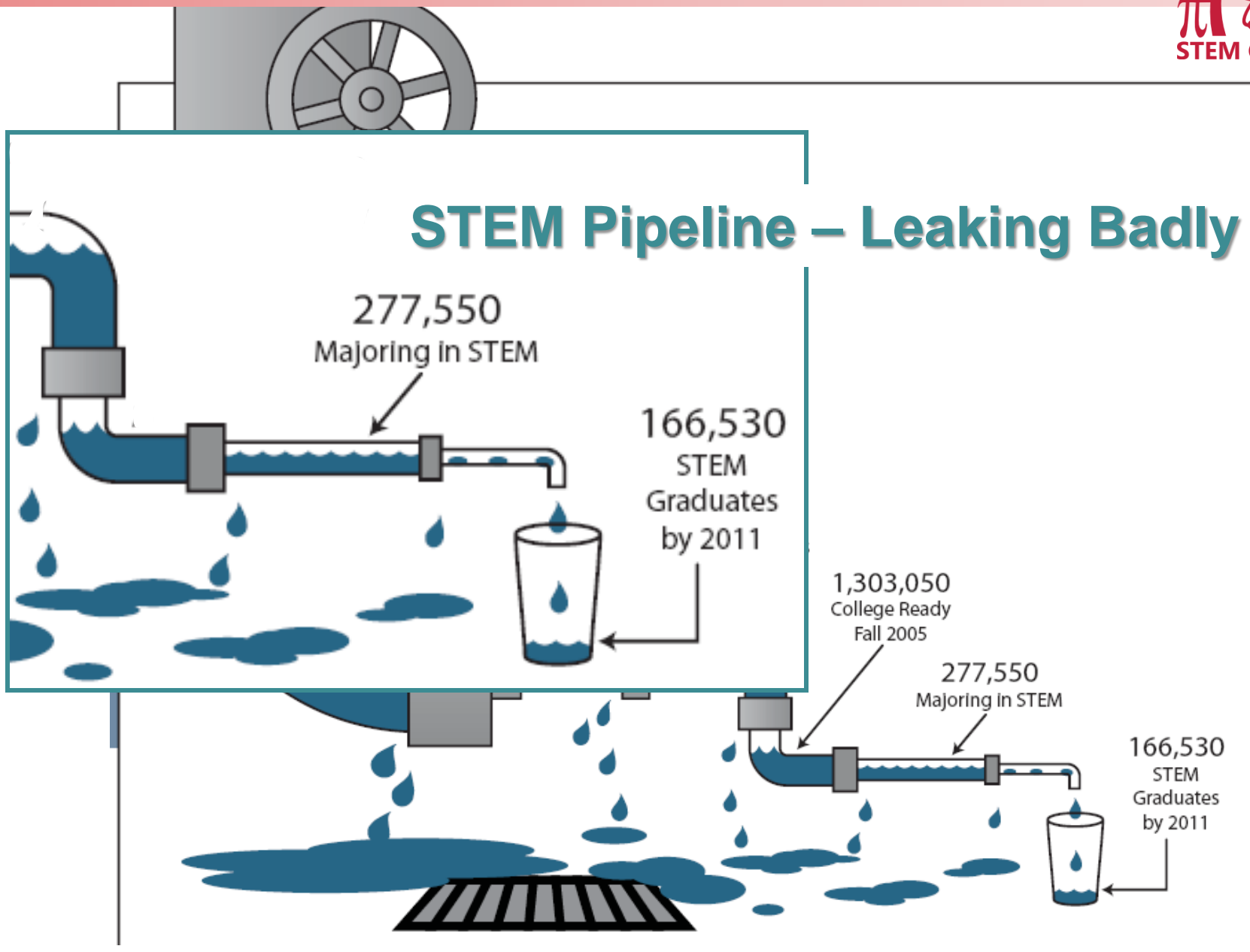
**THERE IS ADDED PRESSURE TO FIND MORE STEM
WORKERS DUE TO BABY BOOMER RETIREMENTS**

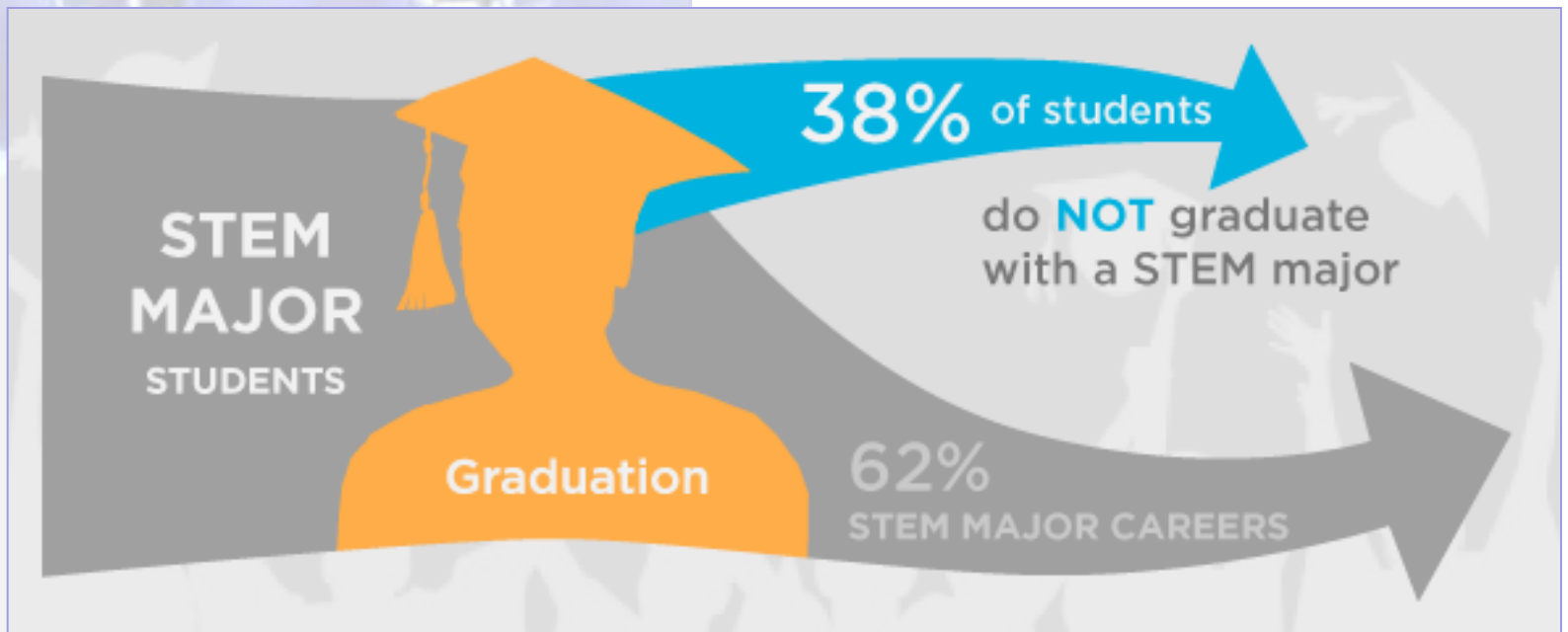
**STEM IS PROJECTED TO GROW AT 17 PERCENT
THROUGH 2018.**

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

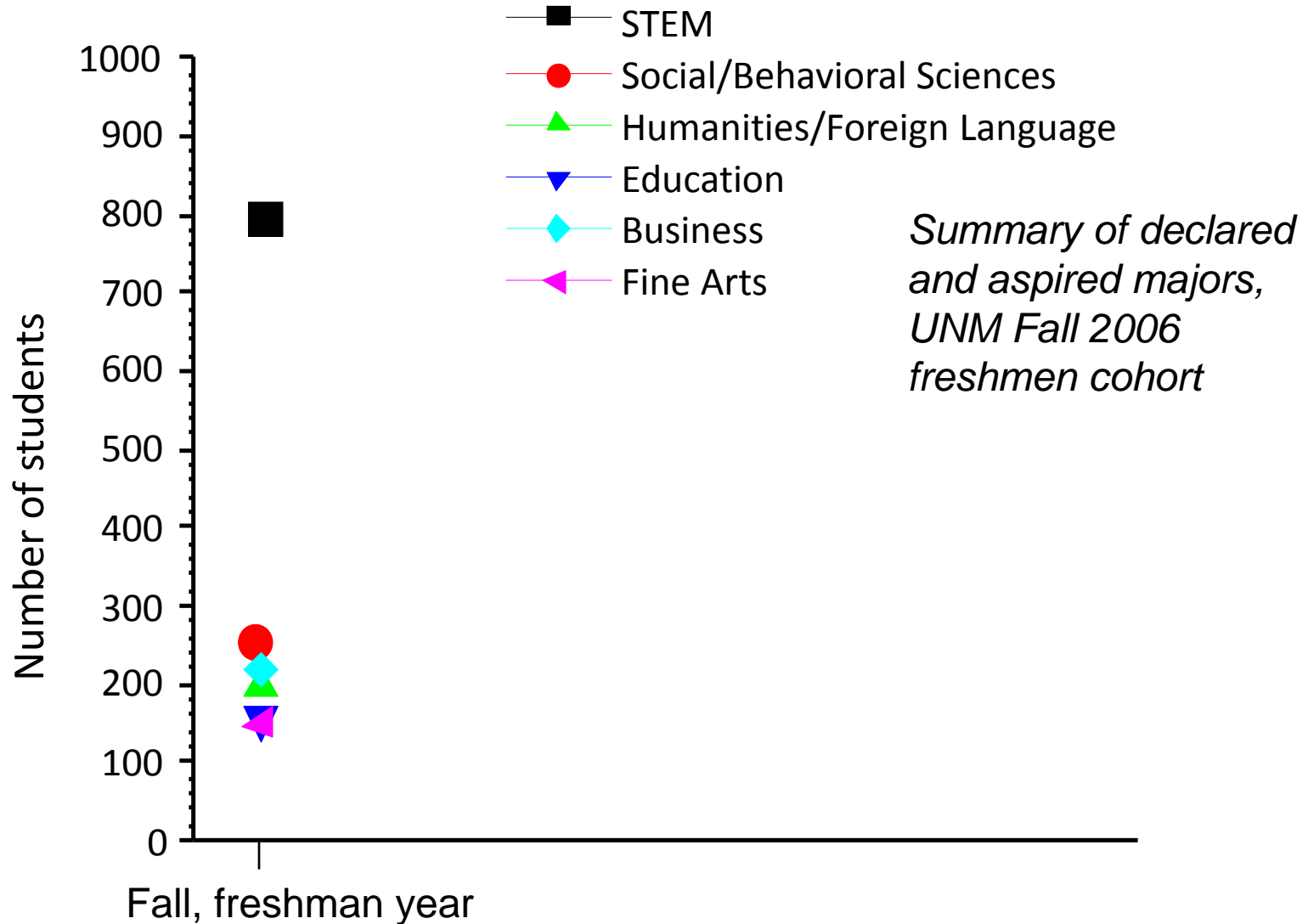
**WE ARE CURRENTLY RELYING ON FOREIGN-BORN
WORKERS TO PLUG THE GAPS IN OUR STEM
WORKFORCE**



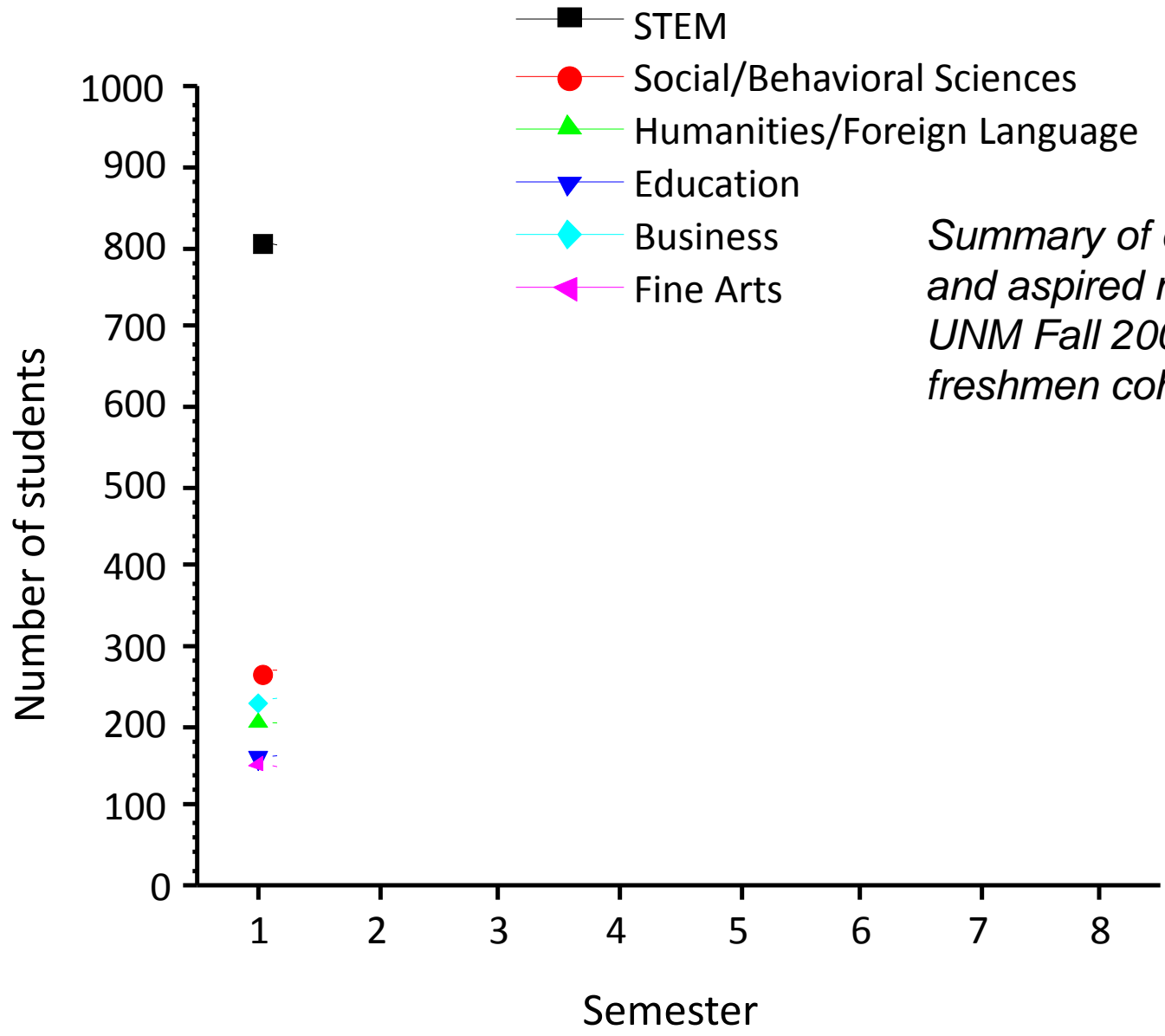
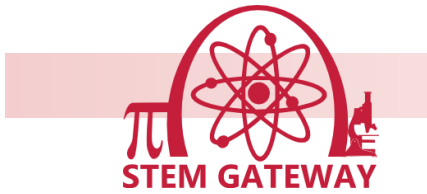




STEM fields top the list of aspired-to majors among UNM freshmen

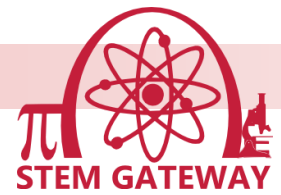


STEM disciplines suffer the greatest undergraduate student attrition at UNM

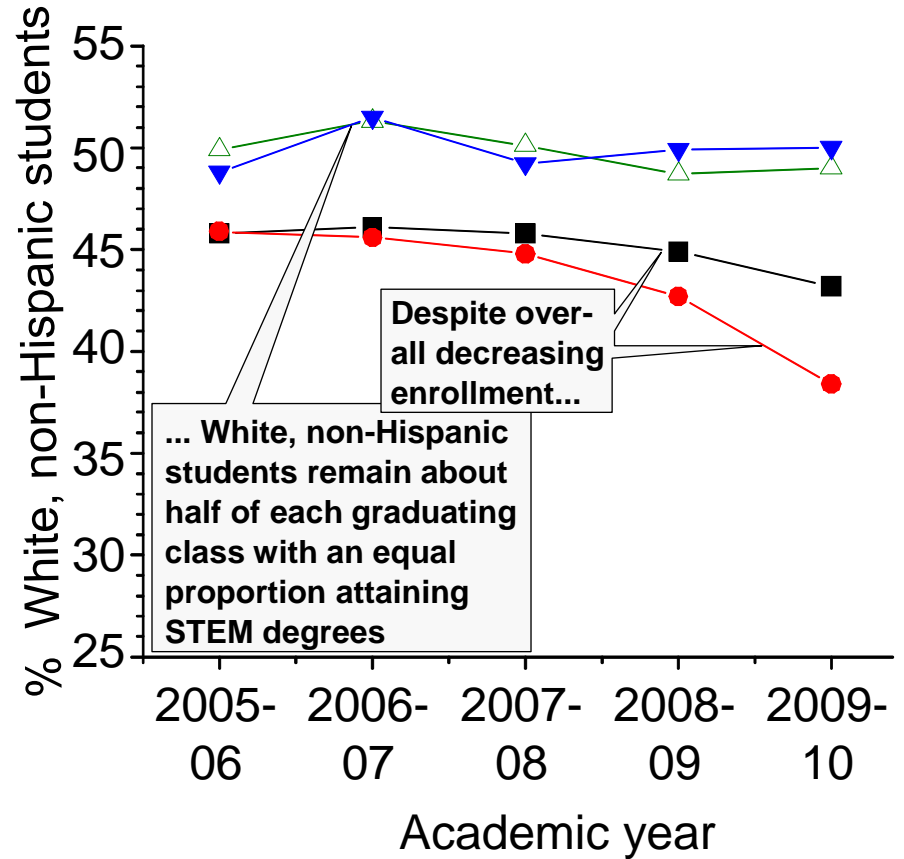
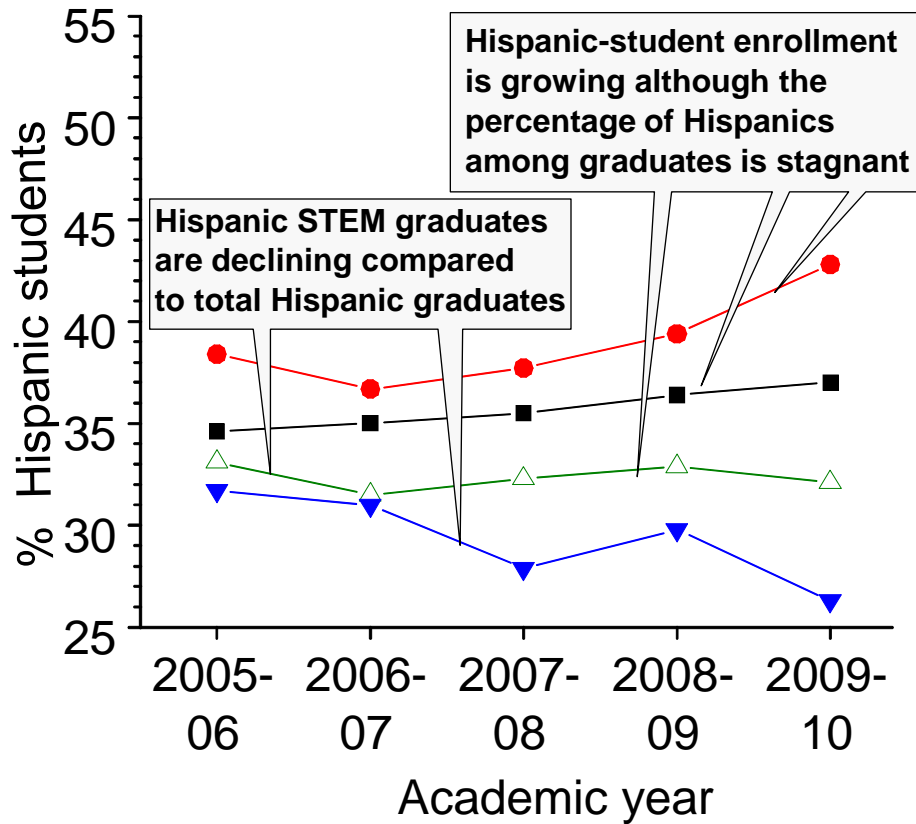


Summary of declared and aspired majors, UNM Fall 2006 freshmen cohort

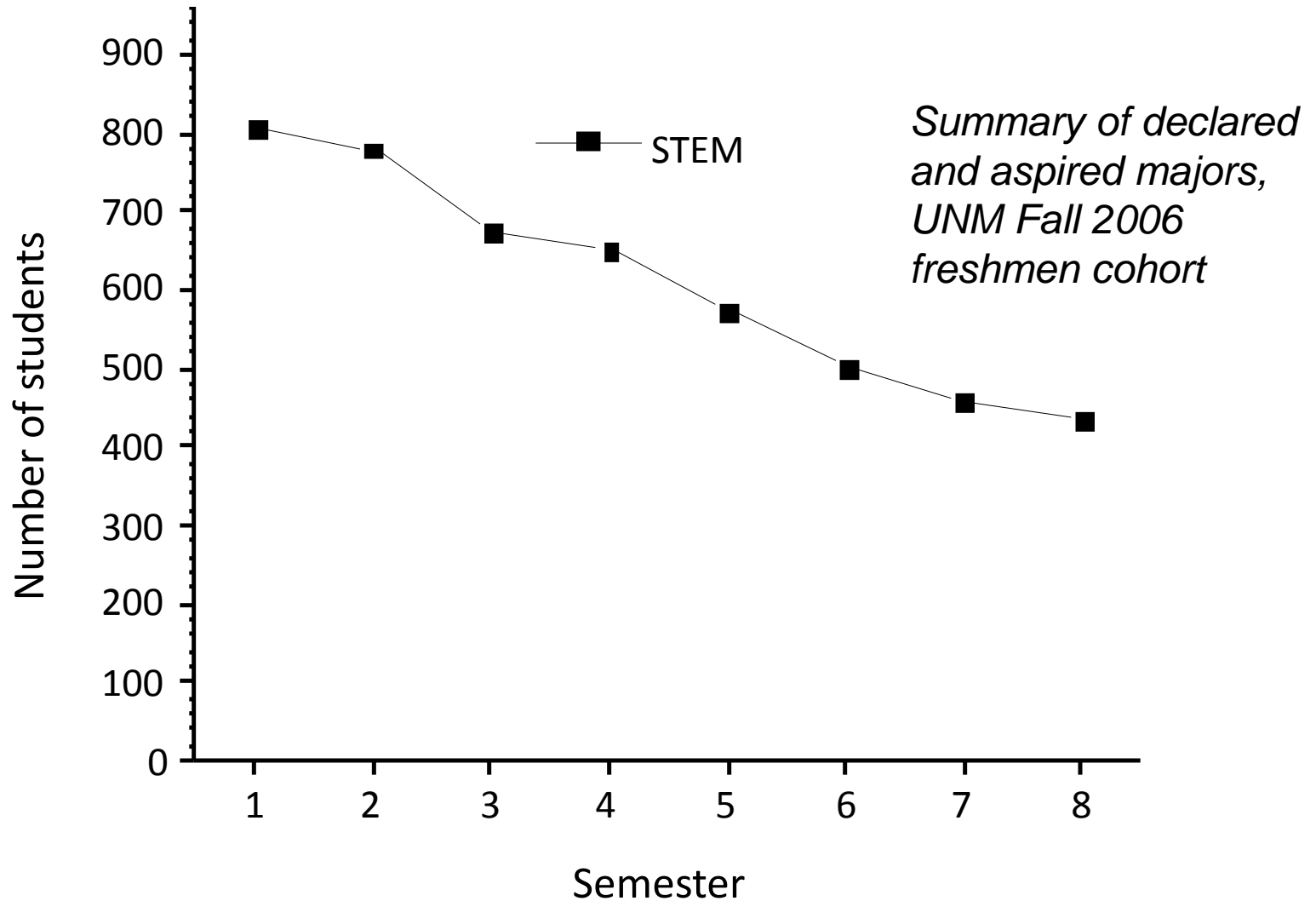
BACKGROUND TO THE GRANT



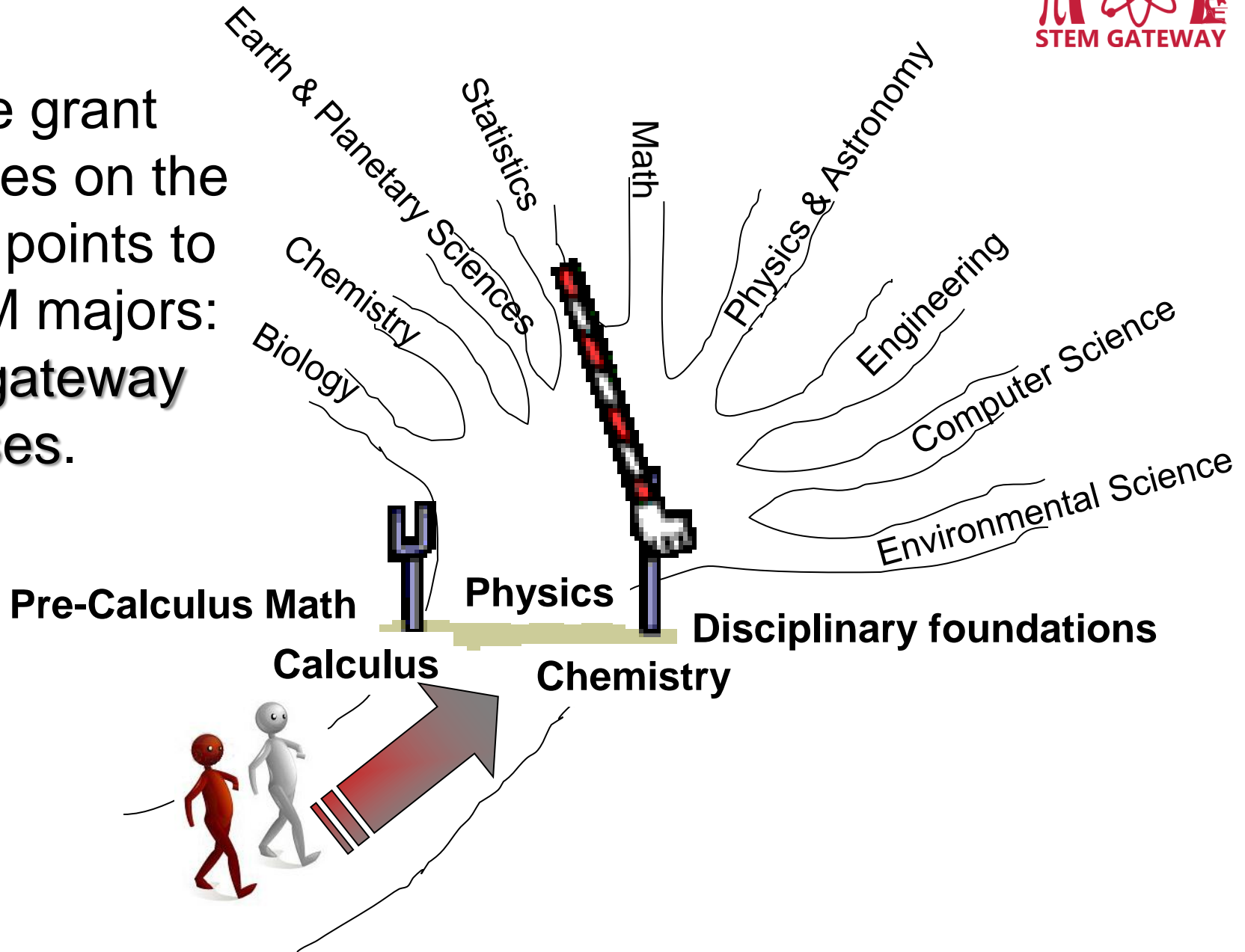
- Total undergraduate enrollment
- Entering first-time freshmen
- △ Graduates
- ▼ STEM graduates



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



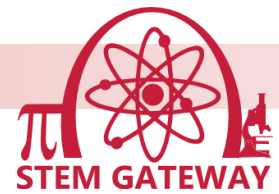
... the grant focuses on the entry points to STEM majors: The gateway courses.





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





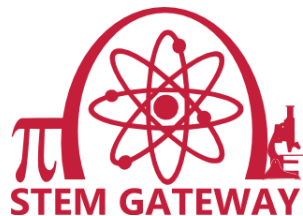
STEM Gateway Components

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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