

# SAN DIEGO MESA COLLEGE

## OBJECTIVE

Through the institutionalization of programs and practices at San Diego Mesa College, increase the percentage of full-time, Hispanic and low-income students that:

- Seek a STEM degree
- Complete a STEM degree
- Transfer in a STEM major



## STEM Disciplines @ Mesa

*Defined by DOE for Grant*

- Archeology
- Astronomy
- Biology
- Chemistry
- Computer Information Science
- Engineering
- Geographic Information Systems
- Geology
- Mathematics
- Psychology
- Physical Science
- Physics

## STUDENT CONNECTIONS

Institutionalize spaces in which STEM students and potential STEM students can engage with one-another for tutoring, mentoring, studying, workshops, researching, access to resources, including materials, computers, faculty and counselors.

- STEM Center (tutoring, mentoring, workshops, counseling, computers, resources)
- STEM Research Incubator (hands on research supporting course work and independent research opportunities)

## FACULTY CONNECTIONS

Institutionalize STEM Professional Development

- Course redesign
- Training in
  - Cultural inclusive pedagogy
  - Technology
  - Mentoring
  - Tutoring

## PATHWAYS

Improve STEM Pathways

- Assess and resolve problems with current articulation with UC and CSU systems
- Establish STEM articulation with private and OOS
- Assess and resolve course scheduling complexities that are barriers to student completion
- Outreach to undecided students with STEM possibilities
- Ongoing and active collaboration between counseling faculty and STEM faculty

*Grant Application Due May 31, 2016  
\$3.5 —\$6 million Award over 5-Years*