Hartnell College Summer STEM Internship Program and Symposium

Erica Padilla-Chavez, Trustee
Elia Gonzalez-Castro, Trustee (Vice President)
Willard Lewallen, Superintendent/President
Jackie Cruz, Executive Director of Advancement/Foundation
Andy Newton, Director of Science and Math Institute (retired)

October 23, 2014
ACCT 2014 Leadership Congress
California Community College District Boundaries

Legend

- Campus Locations
- Nondistrict Lands
- College Districts

• 15,000 students annually (unduplicated headcount)
• 85% receive financial aid
• 67% of students are Latino/Hispanic
• 90% unprepared for college level math
• 85% unprepared for college level English
• Less than 10% of adults in District have a bachelor’s degree or higher
• 39% of adults over 25 years old do not have a high school diploma
• Annual family income in East Salinas - $11,000
Against this backdrop of enormous socio-economic challenge and education disadvantage…

• World class STEM programs and world class students

• CSIT-in-3 Program
  • Only one of its kind in the U.S.
  • 3 year bachelor’s degree in computer science
  • Cohort program
  • 85% Latino/Hispanic students
  • 45% Latino/Hispanic female students
Link to College
Strategic Priorities
• Strategic Priority 1 - Student Access

• Strategic Priority 2 - Student Success

• Strategic Priority 3 - Employee Diversity and Development

• Strategic Priority 4 - Effective Utilization of Resources

• Strategic Priority 5 - Innovation and Relevance for Educational Programs and Services

• Strategic Priority 6 - Partnerships with Industry, Business, Agencies, and Education

GROWING LEADERS Opportunity, Engagement, Achievement  www.hartnell.edu
STEM INTERNSHIP PROGRAM COMPONENTS

Fall Semester
Spring Semester
Summer Semester
Fall Semester

- Declare a STEM major
- Prepare an education plan with counselor
- Complete internship interest form on Internship Program website
- Upload current resume on Internship Program Website
- Enroll in S124 “STEM Internship Preparation Course” for Spring Semester
Spring Semester

- Attend S124 “STEM Internship Preparation Course”
- Matching, Speed Dating, Internship Placements
- Mentor Orientation and Handbook
- Write Project Plan to be reviewed and approved by mentor
Summer Semester

- Internship begins, 8-10 weeks, Monday – Friday, full-time
- Site visits and lab tours by program activity directors throughout summer
- Mid-point retreat and first stipend
- Abstract and poster preparation
- PowerPoint preparation for select oral presenters
- Symposium and Recognition Ceremony at Hartnell and second stipend
- Program staff and partners debriefing
- Apply to attend a National STEM Conference
- Determine suitable students and projects for year round model
Developing Partnerships with Agencies, Organizations, and Educational Institutions
Cultivate and maintain relationships with partner institutions

Develop partnership agreements

Make expectations clear

Relationships are reciprocal
Great preparation of students = happy mentors!

Create opportunities for President of Institutions to develop relationships

Recognize partners for their contribution

Keep in touch regarding student’s success and needs

Invite to special events and recognize publications

Look for co-funding opportunities to support both institutions

Report student success back to mentors
“No one cares what you know, until they know that you care”

- Benjamin Franklin
Resources Necessary to Develop the Internship Program
Support at the highest level of the institution – CEO and Board

Excellent staff with passion and dedication toward students

Staff with the ability to build robust partnerships with multiple stakeholders and institutions

Braided funding = public and private funding

Ability to maintain and steward relationships with partners
Executing a Culminating Research Symposium
Poster Preparation

Parent and Family Engagement

Mentors and Partners

Funders

President and Board

Partner Award

Community Leaders
STEM Research
Internship Outcomes
Degrees Earned by STEM Interns

<table>
<thead>
<tr>
<th>Year</th>
<th>MS degree</th>
<th>BS degree</th>
<th>AA degree</th>
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<tr>
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<td>23%</td>
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<td>54%</td>
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<tr>
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<td>0%</td>
<td>54%</td>
<td>35%</td>
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<tr>
<td>2012</td>
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<td>45%</td>
<td>27%</td>
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<tr>
<td>2013</td>
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Cohort Size

<table>
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<tbody>
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<td>2012</td>
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<td>2013</td>
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Degree Status of STEM Interns

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<th>2008</th>
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<th>2010</th>
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<td>19</td>
<td>20</td>
<td>13</td>
<td>55</td>
<td>62</td>
</tr>
<tr>
<td>Earned any degree</td>
<td>88%</td>
<td>89%</td>
<td>58%</td>
<td>70%</td>
<td>62%</td>
<td>35%</td>
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<tr>
<td>No degree earned yet</td>
<td>12%</td>
<td>11%</td>
<td>42%</td>
<td>30%</td>
<td>38%</td>
<td>65%</td>
<td>73%</td>
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OUTCOMES FOR STEM INTERNS

Enrollment Status of STEM Interns

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<tbody>
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<td>55</td>
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<tr>
<td>still at HC S '14</td>
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<td>0%</td>
<td>16%</td>
<td>15%</td>
<td>15%</td>
<td>40%</td>
<td>76%</td>
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<tr>
<td>enrolled elsewhere S, SU, or F '14</td>
<td>13%</td>
<td>22%</td>
<td>32%</td>
<td>35%</td>
<td>46%</td>
<td>53%</td>
<td>26%</td>
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CLCIAK ON ANY IMAGE TO ACTIVATE VIDEO
Thank You
Questions?