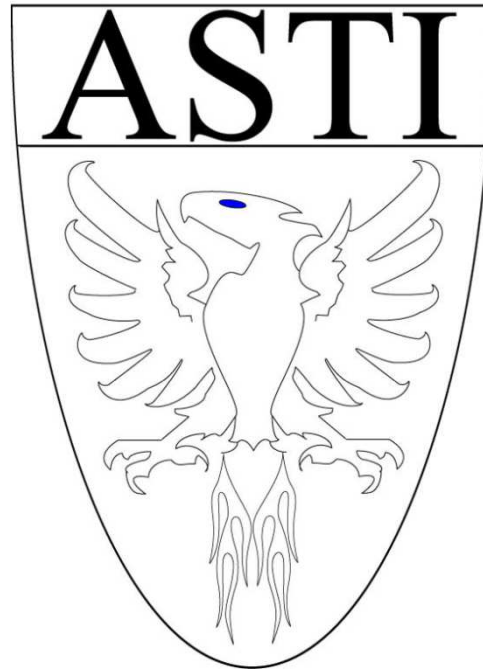


# **Alameda Science & Technology Institute**



**Presentation to the Board of Education  
August 28, 2012**

# **10 Steps to Success**

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## ***Milestones for Career and College Readiness***

7. Algebra II Proficiency by 11<sup>th</sup> Grade
8. AP: Class Taken/Passed, Test Taken/Passed
9. A-G Requirements or CTE Capstone
10. Post Secondary Success

**ASTI's Early College High School (ECHS) program structure and theory of action are focused on preparing students for successful application and entry into the four-year university setting.**

# Theory of Action

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**ALL students will be prepared for early entrance into college and successful completion of a degree from the institution of their choice if we:**

Provide explicit modeling and instruction of college readiness skills across all disciplines

Frequently and consistently utilize formative assessment to engage students in checking their understanding and setting learning goals

Explicitly embed SAT and SAT II preparation across the curriculum

Engage parents and guardians in supporting their students' learning at home and at school

Provide students regular, rigorous opportunities to engage in college-level research that requires critical analysis and presentations of their learning

# **Step 7: Algebra II Proficiency**

## ***10<sup>th</sup> Grade CST Proficiencies 2008 - 2011***

<b>Proficiency</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Alg II	33	35	<b>30</b>	<b>49</b>	?
ELA 10 <sup>th</sup>	83	77	88	92	?
Life Science	71	77	91	87	?

All ASTI students take Algebra II in the 9<sup>th</sup> or 10<sup>th</sup> grade

Math proficiency represents ASTI's most significant area of growth from 2010 to 2011 yet still remains our area needing most improvement

# Step 8: AP Class Taken/Passed

## *The Early College Experience*

Class	Average College Units Earned	Average College GPA
2008	64.5	3.10
2009	68.2	3.00
2010	70.8	2.95
2011	66.4	3.125
2012	65.8*	3.23*

- ASTI does not offer AP courses
- All students enroll part or full-time in college courses at the College of Alameda and/or Laney College during their 11<sup>th</sup>/12<sup>th</sup> grade years
- An increasing number of ASTI students have successfully completed one or more college courses by the end of their 10<sup>th</sup> grade summer

*\*Pending submission of 6 of 38 final transcripts.*

# Step 9: A-G Requirements or Capstone

## *A Course of Study Aligned to A-G Requirements \*(Rev. 2011)*

Requirement Letter	ASTI Courses			PCCD Courses remaining for UC A-G Eligibility
	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> /12 <sup>th</sup> Grade	
<b>a. Social Sciences</b>	MWH	USH	Economics*	Political Science
<b>b. English</b>	Eng 1	Eng 2	X	English 1 and English 5
<b>c. Math</b>	Geo or Alg II	Alg II or PreCal	PreCal* or Calculus*	
<b>d. Lab Science</b>	Biology	Physics	X	
<b>e. Foreign Language</b>	Spanish 1*	Spanish 2*	Spanish 3*	
<b>f. Arts</b>	X	X	X	Art 1 or comparable course
<b>g. Electives</b>	X	X	X	Multiple college course options

# **Course of Study Changes**

## ***Ensuring Sustainability AND Enhancing Rigor***

### **Logistical Challenges**

- Reduced course offerings at PCCD campuses
- Increasing per unit costs

### **Student Needs**

- Additional supported math courses
- Consistent foreign language experience
- Increased content offerings at ASTI during 11<sup>th</sup>/12<sup>th</sup> grade year to expand rigor of overall curriculum
- Achieve maximum possible alignment to UC a-g requirements through HS course offerings

# UC a-g Attainment

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## *Students meeting UC a-g requirements*

Class	Total Students	Students Completing UC a-g requirements	Percentage Completion
2008	28	21	75
2009	13	11	85
2010	26	20	77
2011	29	21	72
2012	38	30	79



# **Step 10: Post Secondary Success**

## ***Concurrent Results***

**ASTI students demonstrate post-secondary success while completing their high school diploma**

- Average College Units earned by end of senior year: 60+
- Average College GPA upon graduation: ~3.00

<b>Class</b>	<b>Percentage of students completing IGETC Requirements</b>	<b>Percentage of students earned Associate of Arts (AA) degrees</b>
2008	61	25
2009	85	77
2010	69	54
2011	69	59
2012	71	58

# **Moving Forward: 2012-13**

## ***Goals to support Theory of Action and Steps to Success***

- Successfully transition to Revised Course of Study
  - Build Spanish Program
  - Expand Math Program
  - Economics, Current Life
- Provide Explicit SAT/ACT Support
  - Embed support in courses across grade levels
  - Provide outside instruction, on-line support
- Increase Parent/Guardian Volunteerism
  - Expand open computer lab hours for college coursework
- Staff Professional Development aligned to NBPTS
  - Video Analysis, Student Work Analysis, Professional Reflection