Raymond “RJ” Rodriguez
Hawaii P-20
Alignment Specialist
2018 Hawaii Data Summit

WIFI Access

Login: US WExternal
Password: love others

Please tag Hawaii P-20 in your social media posts:
@hawaiip20
#dxpdatasummit18
Alignment Overview

• Context
• Current Reports
• Need
• Purpose
• Metrics
• Possibilities
CONTEX T: Career Pathways

HAWAI‘I P-20 STRATEGIC PLAN OVERVIEW

VISION
HAWAI‘I P-20 envisions that all HAWAI‘I residents will be educated, caring, self-sufficient, and able to contribute to their families, to the economy and to the common good, and will be encouraged to continue learning throughout their lives.

MISSION
HAWAI‘I P-20 strengthens the education pipeline from early childhood through postsecondary education and training through data-informed decision-making, advocacy, policy coordination and stakeholder engagement; all in support of student achievement.

HAWAI‘I GOAL
"55 BY ’25"
55% of Hawaii’s working age adults will have a 2- or 4-year college degree by 2025.

GOAL
The "Why"

COLLEGE, CAREER, AND COMMUNITY READINESS

COLLEGE READINESS
- Middle School Transition
- 9th Grade Readiness
- 12th Grade Transition
- Courses
- College Planning and Affordability
- Early College/Dual Credit
- CTE Pathway Alignment
- College & Career Guidance Program

SCHOOL READINESS
- Best Practices in Assessment
- More Preschool Classrooms
- Data Infrastructure Establishment

ROLE
The "How"

- ADVOCATE POLICY
- INCUBATE PROGRAMS FOR SCALING
- ANALYZE DATA
- COMMUNICATE ABOUT EDUCATION

KEY INITIATIVES
The "What"

DATA

PROGRESS GOALS

INCREASE Preschool Enrollment
INCREASE 3rd Grade English Language Arts and Math Proficiency
INCREASE Number of 9th Grade Students on Track to Graduation
INCREASE High School Graduates Enrolling Directly into Postsecondary Ed
DECREASE Need for Remediation in English and Math
Select a category:

- Postsecondary to Workforce

Note: Metrics are under development, new metrics will be added as they are completed.
DASHBOARDS
Postsecondary to Workforce

Select a metric below to view data and details.

University of Hawai'i graduates found in Hawai'i's workforce
Research shows that full-time employment is associated with stronger labor market outcomes over the long term.

University of Hawai'i graduates median wage
Research shows that earnings after college are partially determined by postsecondary completion status and type of postsecondary credential earned.
CONTEXT: Career Pathways

HIDOE
- OCISS
- State/District RTs
- CTE Coordinators
- HI Academy Schools
- CTE Program of Study
- Pathway Advisory Councils
- Perkins

UH Campuses
- CTE Deans
- UH Programs
- Program Coordinating Council
- Integrated Student Success
- Perkins
- Career Center/ Employment/ Workforce Development

Workforce
- WIOA
- Chamber of Commerce
- Workforce Development Council
- Department of Labor
- Local Foundations
<table>
<thead>
<tr>
<th>Workforce Resources</th>
<th>Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHCC Industry Sector Website</td>
<td>“[The website is a] holistic snapshot of industry demands and the current spread of occupations” Link to the UHCC Industry Sector website <a href="http://www.bit.ly/HIindSECT">www.bit.ly/HIindSECT</a></td>
</tr>
<tr>
<td>The Good Jobs Project (Georgetown Center and J.P. Morgan Chase 2015)</td>
<td>“[Project] created to investigate the impact overarching structural economic change has had and is having on workers who do not have a bachelor’s degree.” Link to the Hawaii Good Jobs report <a href="http://www.bit.ly/HIgoodJOBS2015">www.bit.ly/HIgoodJOBS2015</a></td>
</tr>
</tbody>
</table>
Need in STEM (Economy)

• In “healthcare practitioners and technical occupational group and the computer and mathematical group [there are more job openings than candidates].” (WIOA State Plan)

• “Expand (STEM) pathways—in formal educational settings and informal activities—from pre-Kindergarten to STEM careers.” (CEDS Report)

Hawai’i Innovation Initiative (HI2) UH System

• Create more high-quality jobs
• Diversify Hawai’i’s economy
• Develop a $1 billion innovation, research, education and training enterprise

(https://www.hawaii.edu/innovation/)
#1 Civil Engineer

#2 Computer User Support

#3 Computer Occupations (Other)

#4 Computer Systems Analyst

#5 Sales (science, engineering, and electronics)

SOC – Hawaii Industry Sector Website (GAP Analysis) Proposed Workforce Data to collect (DLIR/EMSI)
PROPOSED Hawaii DOE Student Data

# of HIDOE HS Completers
- Class of 2015
- Class of 2016
- Class of 2017

# of CTE Concentrators
- Class of 2015
- Class of 2016
- Class of 2017

# of STEM Honors
- Class of 2015
- Class of 2016
- Class of 2017
### Proposed Hawaii DOE Student Data

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>HS Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 Credits</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 Credits</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 Credits</td>
</tr>
<tr>
<td>Science</td>
<td>3 Credits</td>
</tr>
<tr>
<td>World Language, Fine Arts, CTE, JROTC</td>
<td>2 Credits</td>
</tr>
<tr>
<td>Health, PTP and Other Electives</td>
<td>8 Credits</td>
</tr>
</tbody>
</table>

HIDOE Graduation Requirements…(Plus)

- Completes a CTE “Program of Study”
  - 2-3 courses in sequence plus a state-identified specific academic course requirement
  - “Students completing a high school Program of Study would have mastered all specific Career Pathway core, cluster, and academic course standards.” (www.hawaiipublicschools.org)

Source: Hawaii DOE www.bit.ly/CTEconcen
HIDOE Graduation Requirements…(Plus)

- **4 credits of Math**: The four credits must include one credit for Algebra 2 and one credit beyond Algebra 2. (Algebra 3, Trigonometry, Analytic Geometry, Precalculus, Probability, Statistics, Introduction to College Mathematics, or Calculus.)
- **4 credits of Science**: Of the four credits, one credit must be in Biology 1 or equivalent IB Biology; or AP Biology courses.
- **Successful completion** of a STEM Capstone Project

Why might these be good places to start our focus?
How might the changes made here, impact STEM outputs throughout the Education to Workforce Alignment?
Identify by the 1st Spring

# of HIDOE grads enrolled UH Math

"Below College Level"

"Passing College" (C or better)

Declared STEM Majors

How might the changes made here, impact STEM outputs throughout the Education to Workforce Alignment?
How might the changes made here, impact STEM outputs throughout the Education to Workforce Alignment?
UH STEM Graduates Found Working in HI

How might the changes made here, impact STEM outputs throughout the Education to Workforce Alignment?

Top 5 Industries (UH STEM Graduates)

Employed in 1st year after graduation

Top 5 Industries (UH STEM Graduates)

Employed in 3rd year after graduation

Top 5 Industries (UH STEM Graduates)

Employed in 5th year after graduation

Grouping Academic Year 2010-13, HI Residents at graduation, also using DLIR projections and EMSI data.
Projected STEM Growth

#1 Civil Engineer
#2 Computer User Support
#3 Computer Occupations (Other)
#4 Computer Systems Analyst
#5 Sales (science, engineering, and electronics)

How might the changes made here, impact STEM outputs throughout the Education to Workforce Alignment?
Fastest growing STEM Occupation is Civil Engineer followed by computer related.

SOURCE: http://uhcc.hawaii.edu/workforce
Next Steps

Summer (Jun, Jul, Aug)
- Summarize feedback from stakeholder groups
- Final selection of report metrics
- Hawaii P-20 Data Team will collect data on the metrics
- Design digital dashboard

Fall (Sept, Oct, Nov)
- Complete data analytics
- Combine data to create the report
- Populate the digital dashboard
- Meet with stakeholders for final report feedback
- Release final report
RAYMOND “RJ” RODRIGUEZ
Alignment Specialist

Email: rer@hawaii.edu
Direct: 808-956-2271
Toll-Free: 866-808-4327

University of Hawai‘i
Sinclair Library, Room 504
2425 Campus Road
Honolulu, HI 96822

www.p20hawaii.org