UH STEM Pathways Project

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University of Hawai‘i
Strategic Directions, 2015-2021
http://www.hawaii.edu/strategicdirections/

- Hawai‘i Graduation Initiative
- Hawai‘i Innovation Initiative
- 21st Century Facilities
- High Performance Mission-Driven System
UH STEM Pathways Project
Hawai‘i Graduation Initiative

GOAL: Increase the educational capital of the state by increasing the participation and completion of students, particularly Native Hawaiians, low-income students and those from underserved regions and population sand preparing them for success in the workforce and their communities.

HGI Action Strategy 1: Strengthen the pipeline from K-12 to the university to improve college readiness and increase college attendance.

TACTIC:
• Institutionalize early college and “bridge” programs
HGI Action Strategy 2: Implement structural improvements that promote persistence to attain a degree and timely completion.

TACTIC:
- Establish pathways for all degree programs, including transfer pathways from the community colleges.

HGI Action Strategy 3: Anticipate and align curricula with community and workforce needs.

TACTIC:
- Develop new programs that are responsive to community needs, e.g., STEM, data science, sustainability sciences and cybersecurity
Objective of the ASNS

Prepare students to transfer to baccalaureate STEM programs with a recognized and supported pathway.

ASNS courses will fulfill STEM program requirements at 4-year institutions and provide an easier pathway into STEM.
Current ASNS Degrees

*Biological Science
*Physical Science

*Life Science
*Physical Science

*Biological Science
*Physical Science

*Life Science
*Physical Science
*Pre-Computer Science
*Pre-Engineering

*Biological Science
*Physical Science

*Life Science
*Physical Science

*Biological Science
*Physical Science

*Life Science
*Physical Science
*Pre-Computer Science
*Pre-Engineering

*Biological Science
*Physical Science

*Biological Science
*Physical Science

*Life Science
*Physical Science
*Pre-Engineering

ASNS Degree Enrollment Increase

Projected Growth

Spring 2013: 465
Spring 2014: 713
Spring 2015: 983
ASNS Graduates from UHCCs

2008 2009 2010 2011 2012 2013 2014
3 8 11 11 14 40 51

ASNS Transfers to 4-Year Campuses
2008-2014

209

Includes both, graduates who transferred with and without ASNS degree from a UHCC
Example: Engineering

ASNS Engineering – Higher Ed

A.S. Degrees
A.A. Degrees
UHCC Gen Ed

MA, MS, PhD
BA, BS
ASNS, AA
HS Diploma

ASNS Check Sheet
The BIG Picture

GRADUATE SCHOOL
STEM MAJORS

Transition Bridge
Hawai‘i DOE STEM

Proposed ASNS Pathways

- Data Science
- Life Science
- Physical Science
- Engineering
- Biotechnology
- Ocean & Earth
- Mathematics
- *Food and Water
What Can We Agree On?

- Pathways
- Calculus I requirement