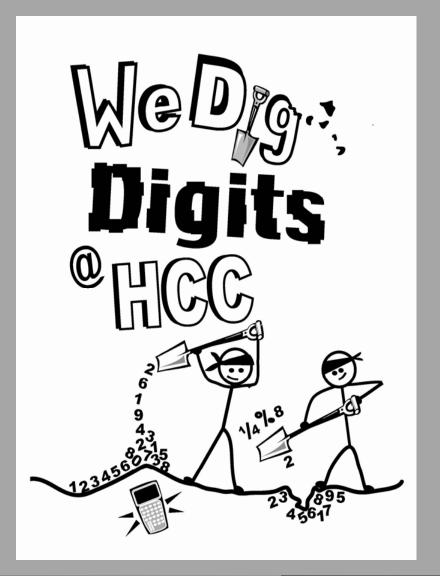


IMPROVING
STUDENT
SUCCESS IN
DEVELOPMENTAL
MATH

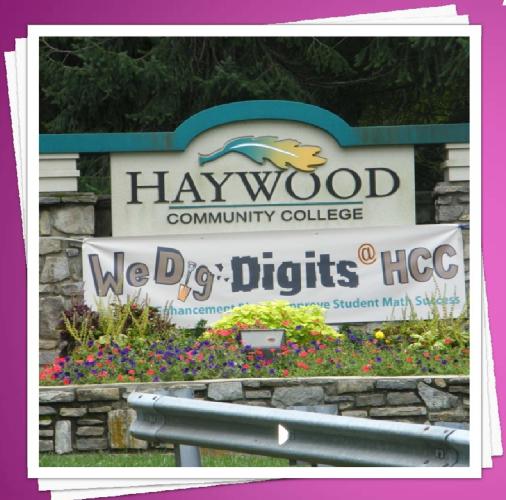
Haywood Community College



HOW DID WE START?

Haywood Community College

Presenter: Elaine Barnes



A Successful Plan MUST

- Directly Impact Student Learning
- •Be Measurable
- •Be Feasible
- Have a Positive Impact on the Campus



Topic Selection

Qualitative Data

- Focus Groups
- Faculty Forum
- Student Forum
- College Advisory Council

Quantitative Data

- Educational Research
- Critical Success Factors
- Decision Matrices

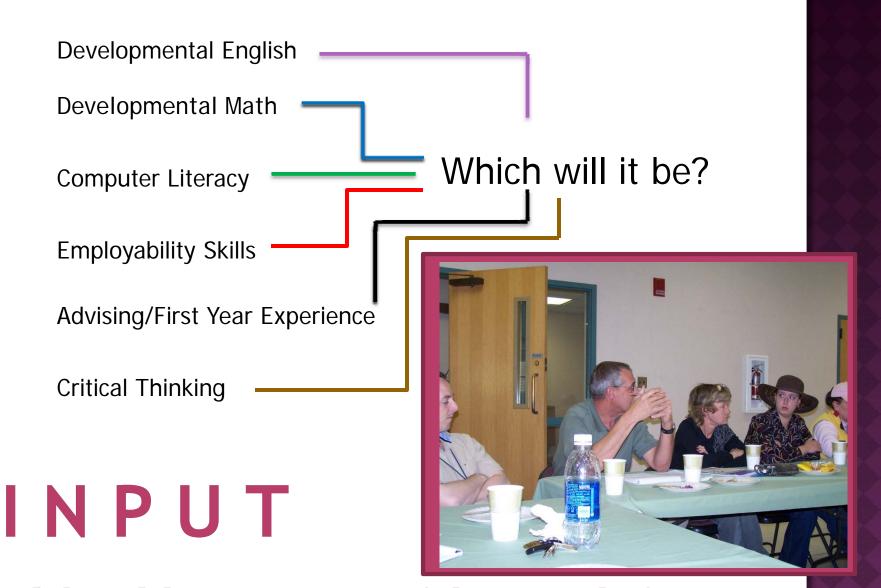
TOPIC SELECTION

• How can we improve student success?

• What do students need to succeed?

Questions

• What barriers exist that impede student success?



FROM COMMUNITY, FACULTY, STAFF, & STUDENTS

Developmental English

Developmental Math

Computer Literacy

Employability Skills

Advising/First Year Experience

Critical Thinking

INPUT





FROM COMMUNITY, FACULTY, STAFF, & STUDENTS

TOPIC SELECTION

- Critical Success Factors Data
 - Developmental vs. non developmental student performance
 - In developmental courses
 - In subsequent courses
- Age factor
- Student failure rates by course subject
- Cohort study

OUR DECISION PROCESS

Planning & Evaluation Process

Qualitative Research

Campus Community Involvement

Quantitative Research

Data Matrices

Final Survey

CAC, AC

Improving developmental math student success

COMMUNICATING THE QEP TO THE CAMPUS

CREATED BY STUDENTS



FACULTY AND STAFF JOIN IN



POSTERS
PENCILS
TEE SHIRTS
SCREENSAVERS

BUILDING

RELATIONSHIPS



Faculty and Students

Faculty and Administration

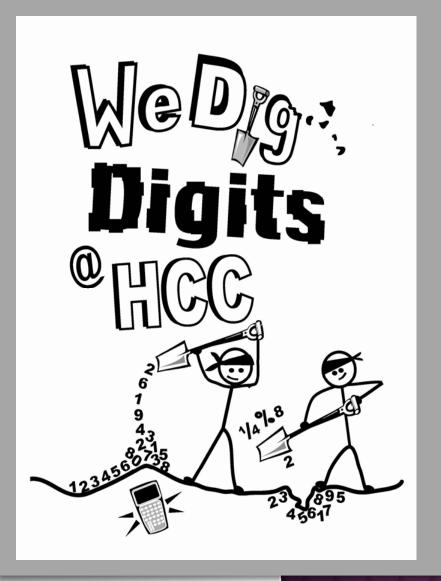
Colleagues

Community

SACS ACCREDITATION VISIT



Focused Report



HOW DID
WE SET IT UP?

Haywood Community College

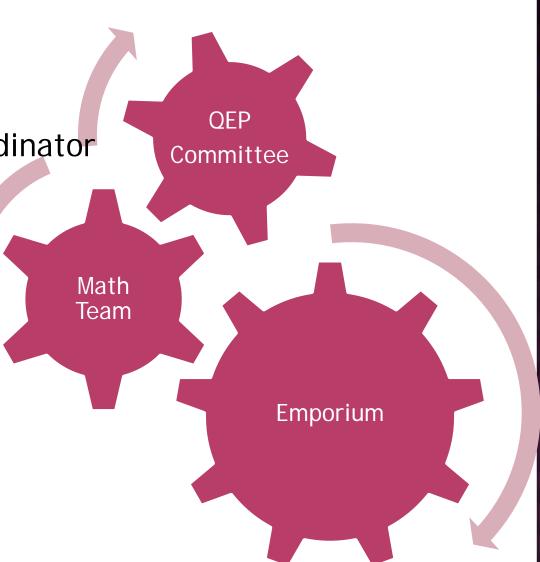
Presenter:
Margaret Studenc

EMPORIUM CONCEPT

- Redesign of Math Instruction
 - Lecture to combination of lecture and lab
 - Instructors and students employ MyMathLab™
 - Mastery System
- Increased Support
 - Math Instructional Assistant
 - Tutors

WHO AND WHAT WAS INVOLVED

- QEP Committee
- QEP Coordinator
- QEP Assistant Coordinator
- Math Faculty
- HCC President and Vice President
- Director of SSS
- Technology
- Facilities



QUALITY ENHANCEMENT PLAN

Implementation

- Develop a full-scale math emporium/lab
- Offer two course sections of hybrid math classes for MAT 060 and MAT 070
- Accelerate developmentalmath course completion processes
- •Offer 8-week math developmental hybrid course registration for MAT 060 and 070
- Develop additional newlydesigned departmental pretests for MAT 060, MAT 070, and MAT 080
- •Add Accuplacer end-ofcourse/post testing



•Employ encrypted pass codes to maintain security

- Utilize bar code readers to monitor student emporium attendance and activity

•Require 90% overall attendance



Provide professional development opportunities



•Initiate comprehensive data collection



Perform end-of-semester and end-of-year analyses



DEVELOP A FULL-SCALE MATH EMPORIUM & LAB



EMPORIUMSpring 2009

- Six Pods
- Thirty Computers
- Instructor Station
- Assistant Station
- Projector



MATH SUPPORT LAB Fall 2009



- Fourteen Computers
- Tutor Support -peer and faculty tutors, five days per week



EMPORIUM CLASSES

PILOT YEAR

YEAR ONE

Fall 08

Spring 09

1 section

MAT 060

Fall 09

Spring 10

MAT 060

1 section

MAT 060

2 sections

MAT 060

1 section

MAT 070

1 section

MAT 070 MA

1 section

MAT 070

2 sections

MAT 070

3 sections

080 TAM

none

MAT 080

none

MAT 080

2 sections

1 canceled

MAT 080

2 sections

1 canceled



EMPLOY ENCRYPTED PASS CODES TO MAINTAIN SECURITY

•Utilize bar code readers to monitor student emporium attendance and activity



ACCELERATE DEVELOPMENTAL MATH COURSE COMPLETION PROCESSES

- Offer Eight-week Sessions
 - MAT 070 and 080 Fall 09
 - MAT 070 ONLY Spring 10
- Created Fast Trac

Developmental department policy

Attendancedirectly correlatesto student success

•Students have an opportunity to appeal



Require 90% overall attendance



PROVIDE PROFESSIONAL DEVELOPMENT OPPORTUNITIES

Who Gets It?

- Faculty
- Staff
- Students

What Did We Give?

- Campus-wide Program Overview
- Lunch and Learn
- Teaching and Learning Center Workshops
- Tutor Training

INITIATE COMPREHENSIVE DATA COLLECTION Sampling from Fall 2009

- Completion
- End of Course Grades
- Placement Scores
- Time on Task

MAT 060

Accuplacer 30 point average improvement

Pre/Post Exams 53 point average improvement

MAT 070

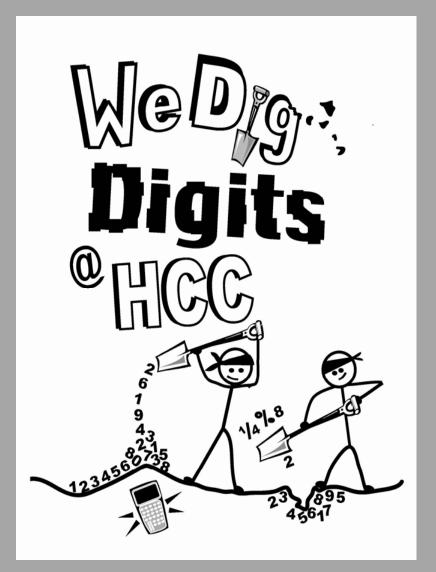
Accuplacer 30 point improvement

Pre/Post Exams 62 point average improvement

MAT 080

Accuplacer 28 point average improvement

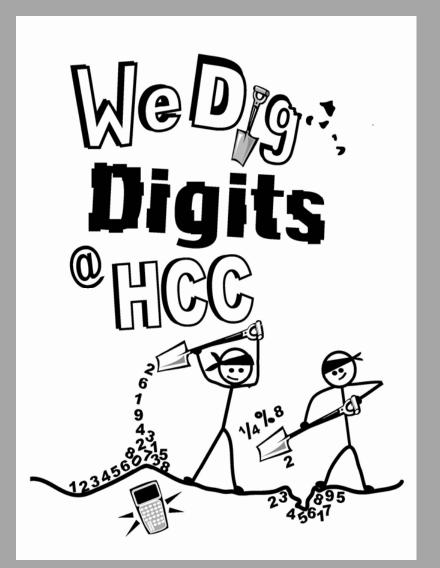
Pre/Post Exams 68 point average improvement



PERFORM END-OF-SEMESTER AND END-OF-YEAR ANALYSES

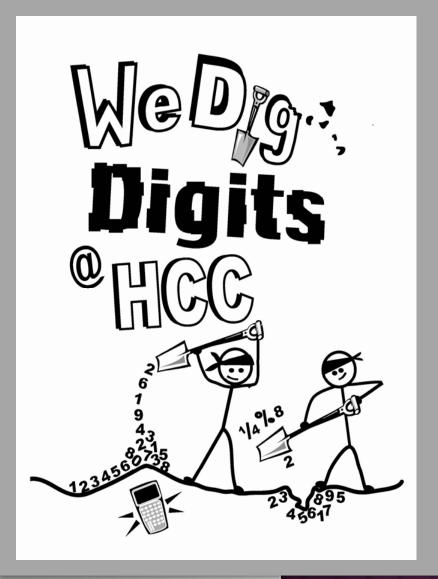
Implementation Year One





OTHER GOOD DEEDS

Math Instructional Assistant
Video Project
Addition of Online Emporium



Haywood Community College

HOW DOES IT WORK?

Presenter:
Beverly Brown



PILOT YEAR 2008-2009

- Borrowed Lab Space
- Two Courses and sections
 - •Essential Mathematics
 - IntroductoryAlgebra



THE TEAM

Lead Math Instructor

Math Faculty

Math Instructional

Assistant

ASSESSMENT

Pre-Post Tests (competency exam)

Accuplacer



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OUR CLASSES

- Combination of Lecture and Lab
- Five Contact Hours per week
- Hybrid format: both face to face and via the internet
- Lab
 - Two required day
 - One optional day
 - Instructor and assistant
- Support Lab
 - Peer Tutors
 - Instructor



MASTERY SYSTEM

Homework

Tests



Competency Exams

COMPUTER-ASSISTED



- •MyMathLab
- Blackboard
- Website