Designing Dual and Concurrent Enrollment Pathways with Stackable, Relevant Credentials

NCPN Conference - October 28-30, 2015
What is The SMART Center?

The SMART Center serves as a regional ATE center and is an economic model for developing a sustainable, globally prepared maritime and transportation workforce for the 21st century through partnership with vital industry and educational entities.

Barbara Murray
The SMART Center
Executive Director and Principal Investigator
The SMART Center Goals

1. Career pathways and program development
2. Career awareness and promotion
3. Model for education & industry partnerships

Dual Enrollment
Proven Pathway Growth

Academic Program Growth

Maritime Pathways Course Enrollment

- 71% New Enrollment Increase (2010 – 2014)

Dual or Concurrent Enrollment

- 309% New Enrollment Increase (2010 – 2014)

Tidewater Community College
Anne Arundel Community College
San Jacinto College
What is Dual Enrollment?

72% of students taking DE courses at a college campus enroll in post secondary education*

63% of students taking DE courses at a high school campus enroll in post secondary education*

Only 61% of students NOT taking DE enroll in post secondary education*

*Community College Research Center
“What We Know about Dual Enrollment”
February 2012
Concurrent Enrollment In Vessel Operations

Dr. Sallie Kay Janes
Co-PI The SMART Center
San Jacinto College
Vice President
Continuing and Professional Development

• Seagoing/Vessel operations focus
Partnerships for Concurrent Enrollment

• Port of Houston Partners in Maritime Education
• Seagoing/Vessel operations focus
• Credits toward SJC Associate Degree in Maritime Transportation while in high school
An Employer’s Perspective

Guy St John
Apprentice Program Manager
Oceaneering

- Marine Services Division
- Ship maintenance, modernization for variety of U.S. government military vessels
What is Registered Apprenticeship?

- It’s the beginning of a Career
  The Program is 4 years in length (8000 hrs OJT) + 144 hrs Apprentice Related Instruction per year

- It’s on-the-job training and education
  Apprentices start working from day one with incremental wage increases as they become more proficient

- It’s a Nationally Recognized Credential
  At the end of the apprenticeship, all apprentices receive a Nationally Recognized Journeyman’s Credential in your trade

- It’s the chance to earn “stackable credentials” along with a Journeyman’s Card

- A certificate from Tidewater Community College:
  Maritime Technologies Mechanical or Structural or Welding
  An Associate’s Degree
2+2+2 Pathway

Get on the SMART Career Pathway from High School to the Maritime and Transportation Industry!

STEP 1: Take these High School or Dual Enrollment Courses
- Math: Algebra 1, Algebra 2, Geometry, Trigonometry
- Science: Biology, Chemistry, Physics
- Career and Technical Education: Engine repair, Drafting/design, Engineering, Electronics, Robotics

STEP 2: Graduate and Enroll in a Community College Academic Maritime-Related Certificate Program
- Certificate Program: Marine Welding • 19 credits
- Certificate Program: Marine Electrical • 19 credits
- Certificate Program: Marine Diesel • 19 credits
- Certificate Program: Marine Mechanical • 19 credits

STEP 3: Apply Academic Certificate
- Credits Toward: Certificate Program (CSC) Maritime Technologies (25-27 credits)
- Associate degree (A.A.S.) Maritime Technologies (67 credits)
- Associate degree (A.A.S.) Maritime Logistics (67 credits)

STEP 4: Apply Academic Certificate
- Credits Toward:
  - B.A./B.S./B.A.S.
  - M.A./M.S.
  - PhD

STEP 5: Continue Education or Enter the Workforce
- Enter workforce in one of four industry segments:
  - Seagoing
  - Shipbuilding and Ship Repair
  - Ports and Logistics
  - Pleasure craft boating

Did you know? Dual Enrollment classes allow you to take one course that meets your high school graduation requirements and earn college credit! Talk with your guidance counselor about DE courses you may be able to take today.
Why Create a DE Pathway?

- Prepares college-bound students in all areas that support further study and meaningful industry-recognized standards.
- Provides OPTIONS, making the connection between school and work through industry partnerships.
- Provides students “value added” courses with workplace readiness skills that prepare students for a competitive workforce.
An Employer’s Perspective

Ross Leach
Apprentice Program Manager
AMSEC, LLC

- Division of Huntington Ingalls Industries
- Ship maintenance, modernization for variety of U.S. government agencies - generates $200M annually
Building a DE Program

Welding (2009)
Dual Enrollment - 5 credits
Partnership
Apprenticeships

Marine Electric (2012)
Dual Enrollment – 6 credits
Partnership - SMART Institute
Apprenticeships

AutoCAD (2013)
Dual Enrollment – 4 credits
Partnership - SMART Institute
Apprenticeships
Potential Earnings Comparison between College Career Path and Apprenticeship

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Benefits of Stackable Credentials & Dual Enrollment Head Start
- Moving SMART Career Pathway Model to the West Coast expanding Apprentice Programs

- Working with US DOL to Register Apprentice Program Nationwide

- AMSEC Program provides pathways from Certificates thru Journeyman’s Credential to Associates and Bachelors Degree

- Working with Tidewater Community College to develop Mechatronics Program for the Maritime Industry
Discussion & Questions
Contact Us

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