Coastal Bend College
Project OASIS
HSI STEM and Articulation Program

Project OASIS Goals

**Goal 1:** Increase the number of Hispanics and other low income students obtaining degrees in STEM fields.

**Goal 2:** Develop model transfer articulation agreements in science and other STEM FIELDS.
Organizational Structure of OASIS Project

- Board of Trustees
- College President
- Dean of Instruction
- Project Director
- Administrative Assistant
- Assistant Director
- E.O.W.C Coordinator
- Science Faculty
- Science Learning Skills Specialist
- Science Case Managers [3]
- Science Tutors

Project OASIS Activities

- Course Redesign
- Learning Space Renovations
- Every-Other-Weekend College
- Science Student Support Services
- Professional Development
- University Articulation Agreements
Course Redesign

• Incorporates Best Practices.

• Use of Supplemental Model to augment traditional instructional format with technology-based activities and active learning.

• Applies cooperative learning strategies such as demonstration, group work, and applied laboratory experiences to traditional lecture formats.

• External consultants will guide course development.

Course Redesign Timelines

• Fall 2012; Course Redesign Complete for BIOL 1408, BIOL 2304, and CHEM 1411.

• Fall 2013; Course Redesign Complete for BIOL 2401, BIOL 2420, and GEOL 1305.

• Fall 2014; Course Redesign Complete for BIOL 2402 and GEOL 1305.
Course Redesign Timelines

• COSC and MATH courses may be redesigned for EOWC format.

• Following course redesign, the courses will be piloted, evaluated, and adjusted as necessary.

Learning Space Renovations

• Current design discourages learning communities and encourages passive learning.
• Learning “islands” will create learning communities.
• Moveable structures will create dynamic, multi-functional classrooms.
• Technology enhanced instruction.
• Construction of Learning Commons.
Learning Space Renovations Timeline

• Summer 2012; Two Beeville laboratories renovated.
• Summer 2013; Pleasanton laboratory renovated, Beeville Science Commons constructed.
• Summer 2014; Two Alice Laboratories and one Kingsville laboratory renovated.
• Summer 2015; Two Beeville laboratories renovated.

Every-Other-Weekend College

• Provides a convenient scheduling option for non-traditional students.
• Combines classroom and online instruction (hybrid format).
• Cohorts established to guarantee course availability.
• Allows completion of Associate’s Degree within a two year timeframe.
Every-Other-Weekend College Timeline

• Fall 2011, EOWC Taskforce established.

• Fall 2011, EOWC Director hired.

• Taskforce led by EOWC Coordinator will develop timeline for curriculum development and presentation.

Science Student Support Services

• Theory-based student services will be implemented.

• Increase retention and recruitment of STEM majors.

• Learning Skills Specialists and Case Managers will work with faculty to develop an early alert process through ZOGOTECH’s Estudias Enterprise System.

• Career awareness will be integrated into the existing curriculum.
Science Student Support Services Timeline

• Sept. 2012; Learning Skills Specialist and three case managers will be hired.

• Sept. 2016; a minimum of 400 students will have used services in the learning commons (tutoring, STEMinars, guest lectures, club activities, etc.).

Science Student Support Services Timeline

• Sept. 2016; a minimum of 600 students will have participated in the case management retention/advising program.

• Sept. 2016; retention rates of students that participated in the case management retention/advising program will be 9% higher than their science classmates.
Professional Development

• External consultant will assess professional development needs.

• Professional Development activities will be designed to provide faculty with the requisite training needed to effectively redesign their curriculum.

Professional Development Timeline

• Sept. 2012, Advisors, science case managers, counselors, and IR personnel will be trained to use Early Alert Software System.

• May 2012, Consultant will begin assessing the needs and implementation of student success based professional development.

• Sept. 2013, NACADA will provide three on-site trainings in case management retention/advising seminars to the college community.
**Professional Development Timeline**

- Sept. 2013, Case managers and Learning Skills Specialists will attend a NACADA Institute.

- Sept. 2014, all full-time science faculty will have received course redesign and instructional technology training.

- Sept. 2016, Professional development programs related to student success will be instituted.

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**University Articulation Agreements**

- Expand degree articulation agreements in STEM fields to ensure seamless transfers.
- Increase student interest in STEM fields.
- Establish sharing agreements with universities to obtain information on CBC student university completion rates.
- Add modules to BIOL 1408 (non-majors Bio.) to allow students to get credit for majors Bio.
University Articulation Agreements Timeline

• Sept. 2012, a minimum of three universities will commit to providing faculty participation as guest speakers, curriculum reviewers, and advisors.

• Sept. 2013, five universities will commit to sharing former CBC student enrollment and graduation information.

University Articulation Agreements Timeline

• Aug. 2014, add-on modules will be developed by university faculty allowing CBC course offering of Gen. Bio. For Majors I & II.

• Sept. 2016, degree transfer articulation agreements in STEM majors will be expanded from three to twenty-five.
Project OASIS Progress Report

• EOWC Coordinator, Admin. Assist., and Bio. Faculty member have been hired.

• Met with VWR to discuss laboratory renovations. Plans are currently being developed.

• ZOGOTECH products bids completed.

Project OASIS Progress Report

• Following leads for consultants:
  External evaluator, science/tech course design, retention specialist, ATD coaches.

• Committees/TASKforce assignments made: Weekend College TASKforce, Steering Committee.
Thank You for your Time and Participation!