

School/College/Work Initiative

Mathematics Pathways Regional Forum Phase 6 Report – June, 2003

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Project Title: Mathematics Pathways Regional Forum

Participants

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Frank DiPetro	Curriculum Consultant	Windsor-Essex Catholic DSB
Susan Friedl	OYAP Consultant	Windsor-Essex Catholic DSB
Honi Huyck	Mathematics Consultant	Greater Essex County DSB
Peg Rooney	Teacher Consultant	Greater Essex County DSB
Dave Davis	Coordinator Math and Science	St. Clair College
Bonnie Wonsch	Mathematics Instructor	St. Clair College
Barb Sedlacek	Chair of Engineering Technology	St. Clair College

Schedule of Meetings

Meeting #1	March 5, 2003	Overview of Project Committee Selection and Planning
Meeting #2	March 25, 2003	Outcomes Identified
Meetings #3 to #6	April 1, 8, 22,30	Development and Writing of Course
Meeting #7	May 5, 2003	Finalization of Course and Supports
Meeting #8	June 6, 2003	Wrap-up Meeting
Meeting #9	June 16, 2003	Project Report Writing

Executive Summary

Teachers and consultants from the co-terminous school boards in Windsor/Essex County, Greater Essex County DSB and the Windsor-Essex Catholic DSB, collaborated with St. Clair College staff to develop a bridging course between Grade 12 College and Apprenticeship Mathematics (MAP 4C) and Grade 12 Mathematics For College Technology (MCT 4C). The rationale for developing this bridging course was to provide students who have successfully completed the MAP 4C course with a direct pathway to St. Clair College Technology Programs. The content of the bridging course contains the expectations that were not addressed in the pathway of Grade 9 Applied Math, to Grade 10 Applied Math to Grade 11 College Mathematics, but are contained in the pathway from Grade 9 Academic Math, to Grade 10 Academic Math to Grade 11 University/College.

The Ontario Curriculum for Mathematics and the OSS Math Pathways Chart (Developed by Ontario Association of Mathematics Educators) were the primary references used to identify the course expectations. Please refer to the Mathematics curriculum available at: www.edu.gov.on.ca/english. and the OSS Math Pathways Chart available at www.oame.on.ca

Goals of the Math Pathways Project were to:

- improve communication among math/technology teachers at the school and college level
- improve understanding of mathematics curriculum at both the secondary and college level
- identify program pathways from high school to college technology programs
- align the mathematics course content at the secondary level with college technology and apprenticeship programs
- develop a math course to bridge the gap for MAP 4C graduates entering technology college programs
- increase opportunities for students graduating from an applied math stream to enroll in college technology programs

Project Outcomes

The chart below identifies the outcomes, strategies, and timelines of the Math Pathways Project:

PROJECT OUTCOMES March to June, 2003

Outcomes	Methodology	Timeline	Comments
1. Develop a Math Bridging course for college program(s)	<p>Appoint a recorder and facilitator</p> <p>Review Curriculum from both systems (college/high school)</p> <ul style="list-style-type: none"> - alignment of content - gap analysis <p>Document issues/information throughout for final report preparation</p>	On-going	Completed May 5, 2003
2. Develop a College Pathway Chart to align with the OSS Math Pathways Chart			Due from Barb Sedlacek, St. Clair College by June 30, 2003 (will be forwarded when submitted)
<p>3. Develop a Communication Strategy for Secondary Schools</p> <ul style="list-style-type: none"> - current analysis of student in Course 128 - define entrance requirements - target audience 	- presentations to Math Council and Guidance Counsellors		<p>Presentations Completed:</p> <p>Guidance Council – May 12</p> <p>Mathematics Council – June 17</p>

Math Bridging Course Development

Teachers and Consultants from the two schools boards (Greater Essex County District School Board and Windsor-Essex Catholic District School Board), met with teachers and Coordinators from St. Clair College over a period of three months to design and develop the Math Bridging Course.

The course is listed in the St. Clair College Summer Course Offerings Guide (MT 068 Pre-technology Algebra and Trigonometry) and is being offered for the first time this summer. It is the intent of the college to continue offering this course for the next several years. Details of the course descriptor can be found online at www.stclaircollege.ca/programs/coned/WINSPRO3/Technology.pdf.

Three support documents were developed for teachers and students:

1. Scope and Sequence Chart
2. Course Information Sheet
3. Supplementary Worksheets

These documents are attached as an Appendix to this report.

Summary

The Teacher Consultants from the school boards delivered presentations to both the Math and Guidance Subject Councils in late May and early June. At all of the presentations, the teachers and counselors enthusiastically supported the work completed by this group. The math teachers and guidance counselors see this course as the life vest necessary for students who find themselves in the wrong stream with no easy pathway to the other stream. The school boards and the college have agreed to meet early in the fall to review the success of this course once it has been delivered in the Summer of 2003.

