ACTIVITIES AT LWTC

SEPTEMBER 2006 through DECEMBER 2008

Presented in Reverse Chronological Order William Bricken

SUMMARY OF ACTIVITIES

TEACHING AND WORKING WITH STUDENTS

Taught twenty-eight 5-unit quarter courses. Supervised twenty-two ABED and supplemental math courses. Many positive comments from students.

WORKING WITH FACULTY/STAFF

Participation in aspects of:
math department administration.
cross-departmental activities,
esp. MMDP, ECE, Engineering Graphics, Academy.
global outcomes initiative and accreditation.
placement office COMPASS testing.

SERVICE (COLLEGE, COMMUNITY, INDUSTRY)

Grant proposals submitted to Honda, NSF, DoEd.
College in the High School advisor.
Presentation at Washington State math teachers conference.
Guest lecturer at East China Normal University.

PROGRAM MANAGEMENT/ADVANCEMENT

Design and implement Math Department Assessment Plan.
Review and revise departmental textbook selections.
Contributed to development, design and construction of MathLab.
Introduce new departmental Math 90 exam.
Evaluation, refinement and management of Math80 department exam.
Contributed to course descriptions, outlines and objectives.
Initiation of new courses.

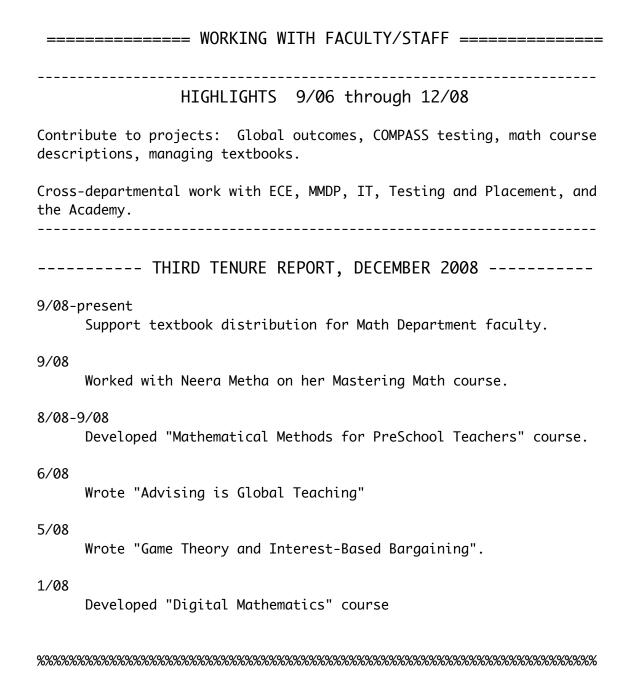
PROFESSIONAL DEVELOPMENT

Animation system programming (Mathematica 6.0 and Cheetah3D). Design of innovative architectures for nano-scale computation. Book of readings "Teaching for Innovation". Book draft "Foundations of Spatial Arithmetic". Contributions to the

Boundary Institute for the Study of Simplicity.

=====		TEACHING AND WO	RKING \	WITH ST	UDENTS =		
		HIGHLIGHTS 9	/06 th	rough 1	 2/08		
Tally of 5-unit courses taught over 9 quarters (28 courses total):							
	lath80 lath90	Pre-algebra Introductory Ala	aebra	2 9			
	lath99	Intermediate Alg	•	8			
	lath102	Quantitative Red		5			
M	lath107		J	2			
M	lath141	Precalculus		1			
M	lath146	Statistics		1			
Supported and taught (individual tutoring and supervision):							
А	BED30	Arithmetic Skill	ls	5			
	BED40	Arithmetic Skill	Ls	5			
M	lath70	Pre-algebra Modu	ules	4			
M	lath85	Algebra Modules		5			
M	lath95	Algebra Modules		3			
THIRD TENURE REPORT, DECEMBER 2008							
COURSES TAUGHT							
1/09 Projected courses, Winter 2009							
		ntermediate Algebro		ABED30	ABE Math	I	
	_	uantitative Reasoni	ing	ABED40			
M	lath107 M	ath in Society		Math95	Factoring	g Module	
9/08	Autı	umn 2008					
		ntermediate Algebra		ABED30	ABE Math	_	
		uantitative Reasoni ath in Society	ıng	ABED40 Math95	Factoring		
7/08	7/08 Summer 2008						
M	lath99 Iı	ntermediate Algebro	ג	ABED30	ABE Math	I	

Math102 Quantitative Reasoning ABED40 ABE Math II Math102 Quantitative Reasoning Math70 Elements of Arithmetic Math85 Pre-algebra Module 4/08 Spring 2008 Math90 Intro Algebra Math70 Elements of Arithmetic Math99 Intermediate Algebra Math85 Pre-algebra Module Math102 Quantitative Reasoning Math107 Math in Society 1/08 Winter 2008 Math90 Intro Algebra ABED30 ABE Math I Math90 Intro Algebra ABED40 ABE Math II Math99 Intermediate Algebra Math95 Factoring Module



====== SERVICE (COLLEGE, COMMUNITY, INDUSTRY) ======= HIGHLIGHTS 9/06 through 12/08 Contribution to Global Outcomes Committee. Grant proposals to Honda, NSF, DoEd. Present at Washington State math teachers conference. College in the High School advisor. East Chine Normal University visit and teaching handbook. ----- THIRD TENURE REPORT, DECEMBER 2008 -----7/08-8/08 Prepared "Global Objectives by Course" analysis 4/08 Wrote "How Societies Fail" 2/08 Wrote a series of memos for the Global Outcomes Committee -- "The Assessment Plan" -- "Assessment Without and With Three Syllable Words" -- "Some Assessment Tools and Methods" -- "Exercises for Program Goals"

12/07 - present Continue to serve as Math advisor for College in the High School Program. Maintain support and administration of Cedarcrest CiHS math course.

-- "Multiple Levels of Analysis: Detail and Recommendations"

Design and implement new math coursework.

Refine Math Department Course Outlines and curriculum structure.

Assess popularity of math teaching styles.

Design and implement Math Department Assessment Plan.

Build MathLab.

Develop and analyze Departmental Math80 Final Exam, and Math90 Final Exam.

----- THIRD TENURE REPORT, DECEMBER 2008 -----

12/08

Designed and implemented survey of student preferences for online, hybrid, MathLab and conventional math teaching. Wrote "Math Teaching Style Survey Analysis"

11/08

Designed and developed departmental Math 90 Final Exam.

10/08

Wrote "LWTC Math Department Global Objectives Matrix and Assessment Plan"

9/08

Wrote "College-level Math at LWTC"

9/08

Wrote "The Intermediate Algebra Bottleneck"

1/08 - present

Supported instructors teaching in the Math Lab.

4/08-7/08

Evaluation of texts for M80, M90, M99, M141, M142, M151, M152 New textbook selection and distribution.

4/08 - 6/08

Developed curricula for Math 107.

4/08

Designed, developed, documented, and built curricula modules for Digital Mathematics.

4/08

Reviewed all Math Department course descriptions. Submit revisions to CRC in 11/08.

3/08

Wrote visualization software for quadratic equations, in Mma.

2/08 - 6/08

Collected many (free, web-based or distributed) software demonstrations relevant to Math classes.

1/08 - present

Continued to maintain, modify, analyze, and distribute the department wide Math 80 final exam.

