

Accelerated Mathematics Initiatives and the College Completion Agenda

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AMATYC

Session S091

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CCBC The Community College of Baltimore County

Accelerated Mathematics Program (AMP)

- * Introductory algebra with one-credit arithmetic component
 - * Placement in basic mathematics class
 - * Upper quartile of Accuplacer placement score interval
- * Pilot run twice
 - * Abandoned as alternate initiatives emerged

Accelerated Mathematics Program (AMP)

- * Seven & Seven
 - * Two separate seven-week courses taught back-to-back in same timeslot
 - * Students can sign up for both courses at the same time
 - * Students need to pass first course to take second course
 - * Removed from second course roster if first course failed
 - * Requires manual scanning of rosters

Seven & Seven Offerings

- * Each course independent and self-contained
- * Other than timing, no changes to structure of full-semester courses
- * Pairs well with our adult basic education arithmetic review course
- * 43 sections of classes offered in Fall 2012

Accelerated Mathematics Program (AMP)

- * Combo (combination)
 - * Part of CCBC's Achieving the Dream plan
 - * Two sequential courses paired
 - * Developmental mathematics pairings
 - * Developmental and general education mathematics pairings
 - * Training and follow-up meetings for all instructors teaching these offerings
 - * Students must remain enrolled in both courses or drop both courses
 - * Students receive separate grades for each course

Current AMP Offerings

Seven & Seven Courses

- * ASE
- * MATH 081
- * MATH 082
- * MATH 083
- * MATH 111
- * MATH 135

Combo Pairings

- * MATH 081/082
- * MATH 082/083
- * MATH 083/163
- * Math 083/135
 - * New Fall 2012 semester

Student Success Rates

* First pilot design results

	Number of Sections Run	Total Number of Students	Pass	Fail
Fall 2008	2	41	18	23
Spring 2009	1	11	8	3

Student Success Rates

MATH 081/082 Combo Offerings

	# of Sections	# of Students	Pass 081	Pass 082	Fail 081	Fail 082
Fall 2009	0	0	0	0	0	0
Spring 2010	3	22	91%	57%	9%	43%
Fall 2010	3	65	63%	43%	37%	57%
Spring 2011	4	89	64%	45%	36%	55%
Fall 2011	4	89	71%	42%	29%	58%
Spring 2012	4	85	76%	55%	24%	45%

Student Success Rates

MATH 082/083 Combo Offerings

	# of Sections	# of Students	Pass 082	Pass 083	Fail 082	Fail 083
Fall 2009	1	25	56%	44%	44%	56%
Spring 2010	2	37	43%	24%	57%	76%
Fall 2010	4	92	66%	39%	34%	61%
Spring 2011	6	130	60%	34%	40%	66%
Fall 2011	5	109	67%	43%	33%	57%
Spring 2012	5	114	60%	42%	40%	58%

Student Success Rates

MATH 083/163 Combo Offerings

	# of Sections	# of Students	Pass 083	Pass 163	Fail 083	Fail 163
Fall 2009	1	23	83%	78%	17%	22%
Spring 2010	2	42	60%	45%	40%	55%
Fall 2010	5	108	52%	37%	48%	63%
Spring 2011	6	115	63%	54%	37%	46%
Fall 2011	7	171	58%	46%	42%	54%
Spring 2012	7	147	65%	55%	35%	45%

Fall 2012 Combo Offerings

- * MATH 081/082
- * MATH 082/083
- * MATH 083/135
 - * In first semester of pilot for this combination
 - * Part of CCBC College Completion Agenda efforts
- * MATH 083/163

Designing an Accelerated Mathematics Program (AMP)

- * Determining which courses to use
 - * Population of courses involved
 - * Examination of topics
 - * Depth and breadth of topic covered in each course
 - * Overlapping topics
- * Method of delivery (design of offerings)
 - * Seven & Seven versus Combo design
 - * Scheduling concerns

Assessing an Accelerated Mathematics Program (AMP)

* Assessment

- * Effectiveness of design
- * Effectiveness of delivery
- * Student performance
- * Feedback (formal and informal)
 - * Students
 - * Faculty teaching AMP sections
- * Retention rates

College Retention/Completion and AMP

- * Promotion of AMP offerings
 - * advisors and students
- * Program expansion plan
 - * Additional course combinations
 - * Balancing AMP offerings with traditional classes
 - * Longitudinal study to determine efficacy

Commitment by AMP Faculty

- * Required training program participation prior to teaching integrated pairing
- * Meetings to discuss issues and course organization changes before/after each semester
- * Weekly activity summaries/feedback by faculty during the semester

Other CCBC College Completion Initiatives

- * Lumina Grant
 - * Lumina Foundation and Carnegie Foundation
 - * Course redesign for MATH 081
- * Additional combo course offerings
- * Summer Bridge program
- * Assessment preparation short course offerings
- * Complete College America Grant

What AMPs Are at Your College?

- * Current Initiatives?
- * Future plans?
 - * College completion
 - * AMPs
 - * Course redesigns

Thank you!