

Mathematics and Science Department Third Year Strategic Priorities

Goal #1

Strategic Priority:		2.0 Learner Experience		KPI 2: 2.2 Engagement	
Functional Program Improvement:		Improve learning in math and science coursework by improving the quality of peer tutoring.			
Primary Learner/Client/Partner Process Benefactor(s):		Students, M/S Faculty, M/S Department, Learning Services Department			
Strategy	07-08	08-09	09-10	Measures	Target Employee Group(s)
Plan	X			Investigate the current tutoring operations of Kirkwood, Cornell, and Coe College. Identify characteristics of successful programs. Identify metrics for a successful tutorial program.	DJ Hennager, Diane Bean, Phil Koopman
Do	X			Increase tutor access to course materials (e.g. current course textbooks, current course outlines, and hand-outs). Develop plan for training tutors. Teach tutor training session(s) as an overload situation.	DJ Hennager, Diane Bean, Phil Koopman, Learning Services
Study	X			Collect baseline data to establish metrics of current practice. Collect data linked to the metrics of successful tutorial programs. Analyze data and make recommendations for improvement.	DJ Hennager, Diane Bean, Phil Koopman Institutional Research
Adjust	X			Modify program as needed.	DJ Hennager, Diane Bean, Phil Koopman

Goal #2

Strategic Priority:				5.0 Resource Management	KPI 5: 5.1 Long-Range Planning
Functional Program Improvement:				Develop preliminary plans for Linn Hall reconfiguration	
Primary Learner/Client/Partner Process Benefactor(s):				Students, M/S Faculty, M/S Department	
Strategy	07-08	08-09	09-10	Measures	Target Employee Group(s)
Plan	X			Review previously submitted Math/Science Department Facilities Plan report. Update enrollment projections.	Brenda Clark, Mike Lyons, Greg Petersen, Chris Patterson , David Keller, John Weglarz, Mick Arnett, Joe Christopher, John Elliff
Do	X			Identify how current space is utilized. Identify current limitations. Identify learning environment needs for the next decade. Develop a proposal identifying space needs.	Brenda Clark, Mike Lyons, Greg Petersen, Chris Patterson , David Keller, John Weglarz, Mick Arnett, Joe Christopher, John Elliff
Study	X			Visit other colleges and universities to view facilities. Begin the discussions with the architectural firm: receive guidance, support, and direction.	Brenda Clark, Mike Lyons, Greg Petersen, Chris Patterson , David Keller, John Weglarz, Mick Arnett, Joe Christopher, John Elliff
Adjust	X			Revise the renovation plan.	Brenda Clark, Mike Lyons, Greg Petersen, Chris Patterson , David Keller, John Weglarz, Mick Arnett, Joe Christopher, John Elliff

Goal #3

Strategic Priority:				3.0 Partnerships	KPI 3: 3.1 Seamless Education Programs
Functional Program Improvement:				Develop and articulate two plus two STEM programs	
Primary Learner/Client/Partner Process Benefactor(s):				Students, M/S Faculty, M/S Department, Regent Universities, area private colleges	
Strategy	07-08	08-09	09-10	Measures	Target Employee Group(s)
Plan	X			Develop 50-60 two year plans of study for STEM majors transferring to area colleges and universities. Identify a process for formally articulating the programs.	Gary Donnermeyer , Joe Sedlacek , David Dozark, Connie Marberry
Do	X			Send proposed plans of study to area colleges and universities. Receive feedback. Analyze and modify the plans to more closely align plans of study. Actively use tools to advise students.	Gary Donnermeyer , Joe Sedlacek , David Dozark, Connie Marberry
Study	X	X		Track students as they move through the programs: identify the numbers of students that successfully complete the Kirkwood and transfer institution program of study.	Gary Donnermeyer , Joe Sedlacek , David Dozark, Connie Marberry
Adjust	X			Develop degree audits for each of the articulated programs of study.	Gary Donnermeyer , Joe Sedlacek , David Dozark, Connie Marberry

Goal #4

Strategic Priority:				2.0 Learner Experience	KPI 2: 2.4 Retention
Functional Program Improvement:				Strengthen and formalize STEM Career Pathways from partnering high schools to Kirkwood	
Primary Learner/Client/Partner Process Benefactor(s):				Students, M/S Department, High School Partners	
Strategy	07-08	08-09	09-10	Measures	Prof Learning Topic/Target Employee Group(s)
Plan	X	X		Identify research questions	Gary Donnermeyer, Dave Bunting, Bob Driggs, Pat Matthes, STEM Coordinator
Do	X	X		<p>Collect relevant data of Kirkwood STEM majors: number of majors, number graduating and number transferring.</p> <p>Track the initial declaration of major at transfer institutions for after the completion of a course of study at Kirkwood.</p> <p>Collect high school data on the number of students completing eight semesters of mathematics and science coursework.</p> <p>Survey graduating seniors from participating high schools.</p> <p>Survey entering STEM majors at Kirkwood.</p> <p>Survey participants of grant funded events and workshops.</p>	Gary Donnermeyer, Dave Bunting, Bob Driggs, Pat Matthes, STEM Coordinator
Study	X	X		Analyze and report results to various constituencies.	Gary Donnermeyer, Dave Bunting, Bob Driggs, Pat Matthes, STEM Coordinator
Adjust	X	X		Improve the metrics for which data will be collected.	Gary Donnermeyer, Dave Bunting, Bob Driggs, Pat Matthes, STEM Coordinator

2007-2010 Department Action Plan (Due: September 30, 2007)

Planning Sheet – FORM B

Department/Unit Math and Science Responsibility: Gary Donnermeyer, Joe Sedlacek, David Dozark, Connie Marberry

Target Year	Action (Circle One)	Department Improvement Indicator (Write your improvement indicators; identify KFI KPI numbers, i.e. 1.1, 2.1; list key processes for 2007-2008 only)	Measurement Instrument or Data Source (Insert Name of Instrument/Source)	Standard of Comparison (Check One)	Frequency of Progress Monitoring (Circle One)
2007-2008	<u>Establish</u> Produce Conduct Implement Baseline Increase Decrease Maintain Benchmark Cohort	Develop 50-60 two year plans of study for STEM majors transferring to area colleges and universities. Identify a process for formally articulating the programs. (3.1)	Student Records, transfer information	<input checked="" type="checkbox"/> Internal KCC Standard <input type="checkbox"/> External Standard <input type="checkbox"/> No standard identified	Weekly Monthly Quarterly <u>Semi-Annually</u> Annually Other _____
2008-2009	Establish Produce Conduct Implement Baseline Increase Decrease Maintain Benchmark Cohort			<input type="checkbox"/> Internal KCC Standard <input type="checkbox"/> External Standard <input type="checkbox"/> No standard identified	Weekly Monthly Quarterly Semi-Annually Annually Other _____
2009-2010	Establish Produce Conduct Implement Baseline Increase Decrease Maintain Benchmark Cohort Maintain Benchmark Trend			<input type="checkbox"/> Internal KCC Standard <input type="checkbox"/> External Standard <input type="checkbox"/> No standard identified	Weekly Monthly Quarterly Semi-Annually Annually Other _____

07-08 Department/Unit Professional Development Plan

Topic	Knowledge/Skills/Understandings Sought	Training and Development Method/	Scheduled Dates/Times

2007-2010 Department Action Plan (Due: September 30, 2007)

Planning Sheet – FORM B

Department/Unit Math and Science **Responsibility:** Gary Donnermeyer, Joe Sedlacek, David Dozark, Connie Marberry

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