2007 Curriculum Reconciliation

COMPUTER SCIENCE

For CS 112, add: "Students who took CS 111 at another institution should check their articulation agreement to see if they are required to take CS 112."

For CS 212, add: "Students who took CS 211 at another institution should check their articulation agreement to see if they are required to take CS 212."

For CS 232, add: "Students who took CS 231 at another institution should check their articulation agreement to see if they are required to take CS 232."

Rationale: The previous descriptions for these courses did not make clear the purpose of having these 1 unit classes. Students did not realize they had to take the courses.

MATHEMATICS

Title and Description Change:

OLD COURSE	NEW COURSE
~~**MATH 540 (3)**~~ ~~**Concrete Mathematics**~~ ~~Blend of continuous and discrete topics including sums, recurrences, elementary number theory, binomial coefficients, generating functions, discrete probability, and asymtotic methods.~~ *~~Prerequisites: MATH 350 or 370 or 470 or 472 or 474 or consent of instructor.~~*	~~**MATH 540 (3)**~~ ~~**Structural Graph Theory**~~ ~~Trees and cycles; independence and matchings; graph partitioning, packing and covering; tournaments; flows; algorithmic aspects; topological graph theory; facility location.~~ *~~Prerequisites: MATH 350 or 370 or 470 or 472 or 474 or consent of instructor.~~* Please note: The UCC did not approve the changes for MATH 540 as it seems to be a completely new course.
MATH 542 (3) **Algorithmic Graph Theory** Introduction to graphs; algorithmic complexity; depth-first and breadth-first search; trees; paths and distance; network flows; matchings and factorizations; Eulerian and Hamiltonian Graphs; traveling salesman problem; planarity; vertex and edge colorings. *Prerequisites: MATH 350 or 370 or*	**MATH 542 (3)** **Advanced Graph Theory** Graphs and digraphs; traversability; factorization; planarity and embedding; coloring; graph Ramsey theory; probabilistic methods; extremal graph theory; algebraic graph theory. *Prerequisites: MATH 350 or 370 or 470 or 472 or 474 or consent of instructor.*

470 or 472 or 474 or consent of instructor.	
MATH 544 (3) **Applied Combinatorics** Counting; Ramsey Theory; experimental designs; finite projective planes; combinatorial optimization; combinatorial set systems; matroids; axiomatic social choice; scheduling theory; location of facilities on networks. *Prerequisites: MATH 350 or 370 or 470 or 472 or 474 or consent of instructor.*	**MATH 544 (3)** **Advanced Combinatorics** Enumeration; combinatorial set systems; combinatorial designs; Ramsey theory; combinatorial optimization; matroids; axiomatic social choice. *Prerequisites: MATH 350 or 370 or 470 or 472 or 474 or consent of instructor.*

Rationale: These courses were designed before two of the three faculty teaching these courses joined the department, and the content that is typically covered has shifted. Catalog changes are necessary to realign the course description with the material covered in the courses.

MATH 542: course description has been broadened to allow more flexibility in covering advanced graph theory. Algorithmic aspects are deemphasized so that other advanced techniques in graph theory can be discussed. This led also to the change in the course name.

MATH 544: reordering of the topics covered in the course and the deletion of topics that are closer to graph theory than combinatorics. Increased emphasis on advanced techniques over applications, leading to the change in the course name.

Academic Affairs Base Budget
Overall Summary

Available Perm Funds	2006-07	2007-08 Allocations	2008-2009 new hiring $$ alloc	2008-2009 no new $$	2008-2009 campus MYBM inc
New Perm Dollars (assume 20:1)	$ 1,330,405	$ 2,834,599	0	$ -	
Other Perm Operating Funds	$ 33,416,620	$ 37,044,465	39,879,064	$ 39,879,064	$ 39,879,064
Available Perm Funds	**$ 34,747,025**	**$ 39,879,064**	**39,879,064**	**$ 39,879,064**	**$ 39,879,064**
Uses of Funds Permanent					
Anticipated salaries (approved)	$ 25,099,482	$ 27,444,045	28,751,611	$ 27,444,045	$ 27,444,045
Perm reserve for New Faculty Hires	$ 1,330,405	$ 1,307,566	0	$ -	
Benefits	$ 115,905	$ 161,423	0	0	0
Operating Expenses (06-07 level)	$ 15,005,726	$ 16,507,956	16,507,956	$ 16,507,956	$ 16,507,956
Additional Perm Expenditures for AY 07-08	$ -				
Total Uses of Perm Funds	**$ 41,551,518**	**$ 45,420,990**	**45,259,567**	**$ 43,952,001**	**$ 43,952,001**
Permanent Funding "Gap" (line 7 minus line 14)	$ (6,804,493)	$ (5,541,926)	($5,380,503)	$ (4,072,943)	$ (4,072,943)
Available Fiscal Funds					
Salary Savings for Faculty who will start the next AY	$ 1,330,405	$ 1,307,566	0	$ -	
UBC Allocation	$ 465,148	$ 554,250	0	$ -	
Sweep Exemptions	$ 362,964	$ 229,316	0	$ -	
Budget Restoration funding for positive pay		$ 137,185	0	$ -	
Exceeding Enrollment Funding	$ 1,000,000	$ 275,000	0	$ -	$ 300,000
Fiscal Salary Savings	$ 1,833,899	$ 1,966,515	1,966,515	$ 1,966,515	$ 1,966,515
Fiscal Offsets (Abatements, etc.)	$ 3,925,433	$ 4,684,973	4,684,973	$ 4,684,973	$ 4,684,973
Available Fiscal Funds	**$ 8,917,849**	**$ 9,154,805**	**6,651,488**	**$ 6,651,488**	**$ 6,951,488**
Uses of Fiscal Funds					
Operating Expenses (not in line 12)	$ 2,772,778	$ 3,337,879	3,337,879	$ 3,337,879	$ 3,337,879
Other potential one-time fiscal expenditures	0				
Total Uses of Fiscal Funds	**$ 2,772,778**	**$ 3,337,879**	**3,337,879**	**$ 3,337,879**	**$ 3,337,879**
Total Available Funds (line 5 plus line 25)	**$ 43,664,874**	**$ 49,033,869**	**$46,530,552**	**$ 46,530,552**	**$ 46,830,552**
Total Uses of Funds (line 13 plus line 30)	**$ 44,324,296**	**$ 48,758,869**	**$ 48, 597,446**	**$ 47,289,880**	**$ 47,289,880**
Academic Affairs share of campus no-growth shortfall					$ 1,887,647
Overall funds (line 32 minus line 34 minus line 36)	$ (659,422)	$ 275,000	($2,066,894)	$ (759,328)	$ (2,346,975)

1   Resolution to Include Faculty Governance and Collective Bargaining Representatives in Academic
2   Affairs Budget Discussions and Decision-making Processes
3
4
5   Whereas, the state of California anticipates a budget deficit in 2008-2009 currently estimated to exceed
6    $14 billion dollars; and
7
8   Whereas, Governor Schwarzenegger has asked every state agency has make budget cuts of 10% in their
9   2008-2009 budget; and
10
11   Whereas, this means a budget reduction of $312 million for the California State University for AY 2008-
12   2009; and
13
14   Whereas, the challenges posed by these cuts to each CSU campus will be significant and difficult; and
15
16   Whereas, the Boards of Trustees, Chancellor Reed, the Academic Senate CSU, the California Faculty
17   Association and other collective bargaining agents have agreed to work together to persuade the
18   Legislature not to enact such cuts; and
19
20   Whereas, although outcomes of combined system efforts to restore proposed cuts have yet to be
21   determined and the final challenges to the system and to CSUSM are as yet unknown; and,
22
23   Whereas, even in a climate of great uncertainty, prudence requires some prior planning for budget
24   reductions; and
25
26   Whereas, CSUSM is in the process of putting together information to begin its discussion of and planning
27   for possible budget cuts; and
28
29   Whereas, faculty representatives sit on the President's Cabinet and on the University Budget Committee
30   which meet monthly or even less frequently, making quick consultation with faculty concerning budget
31   difficult,
32
33   Be it resolved:
34
35   That, the Academic Senate CSUSM pledge to work cooperatively with the President and her leadership
36   team to confront and plan for the challenges of the AY 2008-2009 budget; and be it further resolved
37
38   That, the Academic Senate CSUSM urge the Provost to ask both the Academic Senate CSUSM and
39   CSUSM CFA chapter leadership to attend meetings of the Academic Affairs Leadership Council which
40   concern discussion of and planning for any budget reductions in AY 2008-2009; and be it further resolved
41
42   That, the Academic Senate CSUSM ask the Provost to direct Deans in Academic Affairs to include either
43   appropriate college/unit faculty governance or (in the absence of any formal faculty governance
44   institutions) elected faculty representatives in ongoing discussions about budget reductions or planning
45   for AY 2008-2009.
46