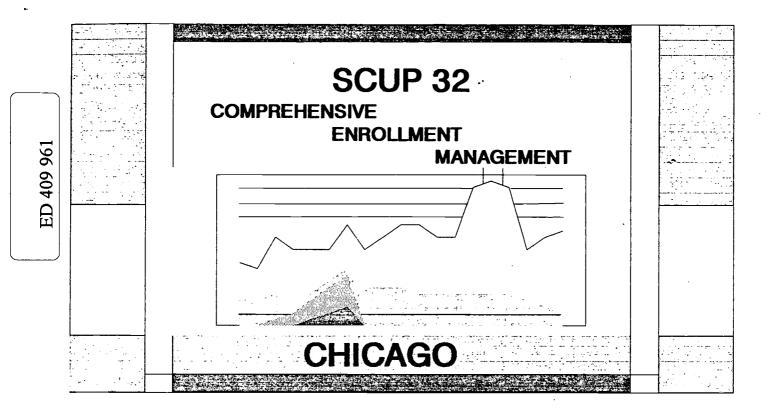
ED 409 961	JC 970 425
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NOTE	29p.; Paper presented at the Annual Conference of the Society for College and University Planning (Chicago, IL, July 12-16, 1997).
PUB TYPE EDRS PRICE DESCRIPTORS	Reports - Descriptive (141) Speeches/Meeting Papers (150) MF01/PC02 Plus Postage. *College Planning; Community Colleges; Enrollment Influences; *Enrollment Management; *Enrollment Trends; *Environmental Scanning; Higher Education; Long Range Planning; Marketing; Models; Prediction; *Predictive Measurement; School Policy; Two Year Colleges

ABSTRACT

Comprehensive enrollment management (CEM) ensures that academic, student, and fiscal planning are done in concert in order to acknowledge the turbulence confronting an institution. A four-phase model of CEM has been developed that can be replicated at any college or university. In phase 1 of the model, the past 25 years of institutional enrollment patterns are "explained" through an examination of major tuition, fee, and financial aid policies; service area demographics and economics; and college budget, staffing, and curriculum. In phase 2, the model is modified to forecast future enrollments, while phase 3 involves connecting the forecast to a simulation model to determine possible results from college policies related to marketing, outreach, admissions; registration, and other efforts affecting first-time enrollments. Phase 4 then integrates enrollment management into a model of the entire institution to determine the effect of the enrollment management simulations on the institution's curriculum and budget. The following overheads from a demonstration of the model are attached: (1) a session outline; (2) the benefits of using models; (3) useful factors and methods for "explaining" enrollments; (4) enrollment forecasts through 2005 for Arizona's Maricopa County Community College District; (5) sample input and output measures for managing and adjusting enrollments; (6) and a sample database, planning variables, and simulations and scenarios for a fictitious college. (HAA)

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Paper presented at the Annual Conference of the Society for College and University Planning (Chicago, IL, July 12-16, 1997)

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SCUP 32 COMPREHENSIVE ENROLLMENT MANAGEMENT

Session by

Chuck McIntyre Director of Research, California Community Colleges

and

Consultant on Computer-Aided Planning (CAP)

at

Sheraton Chicago Hotel & Towers Cityfront Center 10:30 am, Monday July 14, 1997

> For additional information, contact: Chuck McIntyre voice: (916) 327–5887 (916) 582–8647 FAX: (916) 327–5889 email: cmcintyr@cc1.cccco.edu

Comprehensive enrollment management ensures that academic, student, and fiscal planning are done in concert and so as to acknowledge the turbulance confronting the institution. The advantage of this approach is that it allows policymakers to pose alternative future scenarios, their likelyhood or probable range of values, and - in conjunction with forecasting and simulation models - identify the long term consequences of decisions. Some actions may show short-term benefits, but long-term detriments for the college. Consequently, this kind of work should reduce the number of decisions that must be reversed after one or more years as conditions change.

Results

Much prior work of this kind has relied on enrollment demand models; see, for example, Brinkman and Leslie (1987) and McIntyre (1995). But, Brinkman and McIntyre (forthcoming 1997) argue that enrollment is jointly determined by both demand and supply; that is, by factors that are outside the institution's control, together with factors (policies and practices) largely within the institution's control. These latter, controllable or manageable, factors have been explored under the rubric of "enrollment management," a term that seems to have been coined by Hossler and Kemerer (1986). Since that time, different tools for this work have been examined and Dolence (1993) has advocated "strategic enrollment management" to effectively integrate these tools.

Our work begins by "explaining" the past 25 years of enrollment patterns in a large, multi-campus metropolitan college. Besides the major policies of tuition, fees and financial aid at the college and its nearest competitors, independent variables in the model include those about demand: service area demographics and economics, together with those about supply: college budget, staffing and curriculum. This model, the results of which are highly significant and robust, is then modified - in phase 2 of our work - to forecast future enrollments. To construct needed future values for key variables, an expert panel identifies an effective consensus value or range of values for each variable.

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In Phase 3, the forecasting model is connected to a simulation model to look at possible results from what might be termed as the "micro" or at least "somewhat less than macro" policies for: marketing, outreach, admissions, registration; i.e., efforts that will impact first-time enrollments. In addition, the simulation facilitates analysis of course completions and inter-term persistence across academic levels. Increases in these latter variables, other things being equal (which they are not, but we take care of that problem simultaneously in other parts of our modeling), produce significant (a) increases in the level and (b) changes in the composition of the institution's enrollment. The cross-impact of various enrollment management simulations on the institution's curriculum and budget are then viewed once we complete - in Phase 4 - the integration of enrollment management within a simulation model of the entire institution. This model proves especially useful when used in an iterative fashion by an Enrollment Management Task Force to achieve certain institutional goals, and does, at times, produce results that are counter-intuitive.

Application

This work can be effectively replicated at any college or university with minimal modifications that may be needed to account for the unique needs of policymakers, different categories of students, or less-thanadequate data. It can be especially useful for private institutions and public liberal arts colleges that rely heavily on tuition and fees as a revenue source and whose viability depends upon effective enrollment planning and management. It is also useful for multi-campus college systems where difficulties of enrollment management and resource allocation are formidable.



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Dolence, M. (1993). *Strategic Enrollment Management: A Primer for Campus Administrators*. Washington D.C. American Association of Collegiate Registrars and Admissions Officers.

Hossler, D. and F. Kemerer. (1986). "Enrollment Management and Its Context." *New Directions for Higher Education*; No. 53: Managing Enrollments, 14 (1), 5-14.

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COMPREHENSIVE ENROLLMENT MANAGEMENT

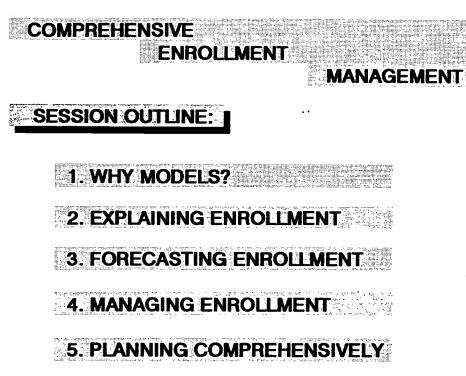
Demonstration for SCUP-32

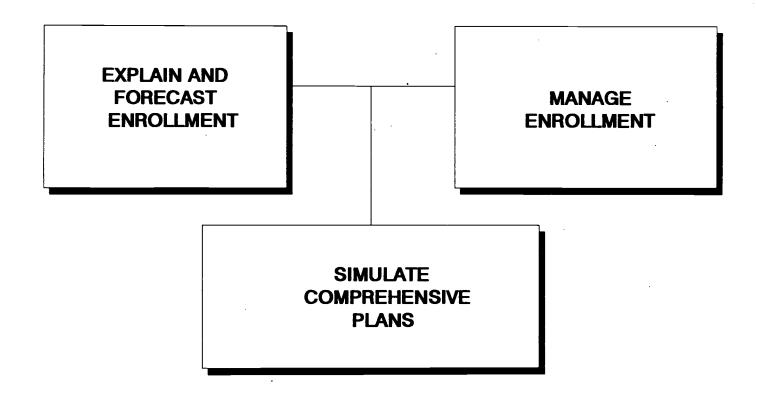
ABSTRACT

Emerging trends worldwide call for a basic transformation of higher education that is far beyond incremental changes typically proposed from strategic planning or TQM. But, the paradigm shift advocated is so substantial, that it isn't always clear where to start and what forms of compass, stabilizer, and keel; i.e., what kinds of policies and tools will help guide and steady the higher education "boat" through these turbulent waters to the desired port; i.e., vision of reform.

This demonstration shows how the "rocking boat" problem is addressed by the tools of comprehensive enrollment management. This work involves integrating three models: an explanation and forecasting model, simulation of enrollment policies, and a comprehensive institutional planning model. The models are validated and the integration proves useful in guiding institutional planning. This session should be of interest to planners, policymakers, and researchers who are responsible for planning and implementing enrollment, curriculum, and budget policies.

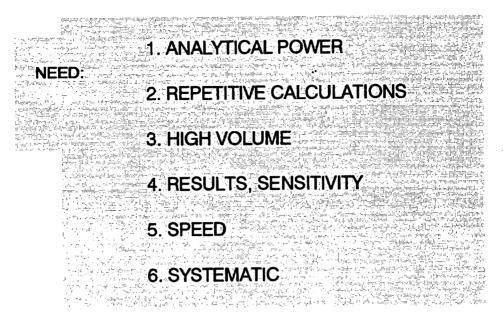








WHY MODELS?



USE OF MODELS:

1989: 15-YEAR FACILITY NEEDS IN 107 CA COLLEGES

1990-95: PLANNING IN CONSORTIUM OF 3-DOZEN COLLEGES*

1993: ENROLLMENT FORECASTING FOR 71 CA COLLEGES

1995: ENROLLMENT STUDY FOR MARICOPA COLLEGES*

1996: ENROLLMENT MANAGEMENT AT LINCOLN UNIVERSITY*

1997: CA COMMUNITY COLLEGES 2005 PLANNING PROJECT

1997: CEM PROJECT FOR PIMA COLLEGE*

*BASIS FOR THIS SCUP PRESENTATION.



EXPLAINING ENROLLMENTS

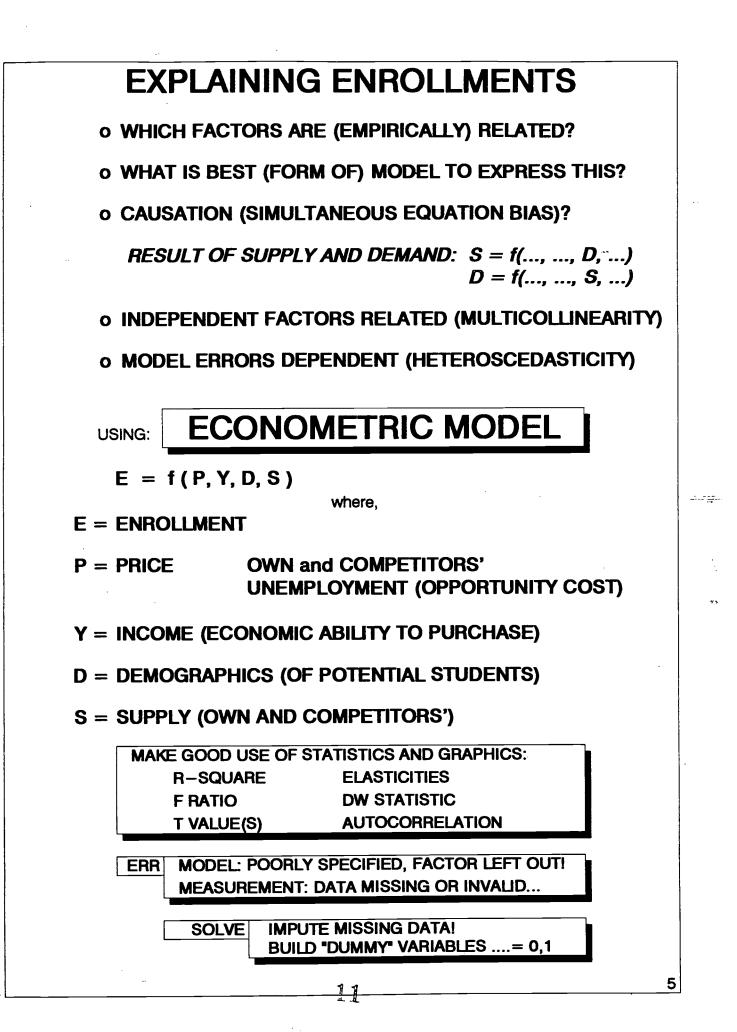
SOME FACTORS ARE MANAGEABLE:

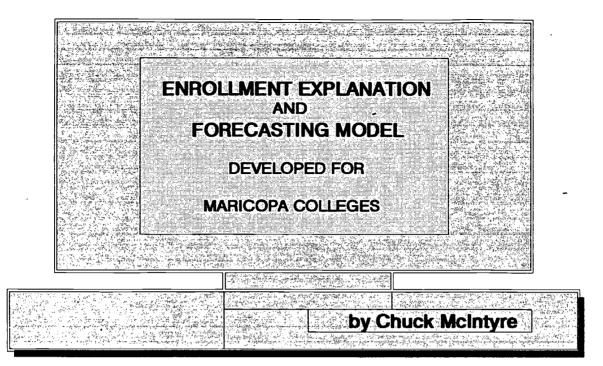
- OWN PRICING: TUITION, FEES, FINANCIAL AID
 - MARKETING AND REGISTRATION
- ADMISSIONS, PROBATION, AND DISMISSAL
 - CURRICULUM: PROGRAMS, SECTIONING...
- SUPPORT SERVICES: COUNSELING,
 - FACILITIES, SITES, ELECTRONIC DELIVERY...

SOME FACTORS ARE NOT MANAGEABLE*:

- COMPETITOR PRICING
 - COMPETITOR ADMISSION PRACTICES
- DEMOGRAPHICS, GEOGRAPHY
 - INCOME, EMPLOYMENT, PRICES...
- SOCIAL AND CULTURAL FACTORS
 - PUBLIC POLICIES
 - * ITS USEFUL TO KNOW THE POSSIBLE IMPACT OF ISSUES YOU CAN'T MANAGE; OTHERWISE, YOUR ACTIONS MAY HAVE UNINTENDED RESULTS



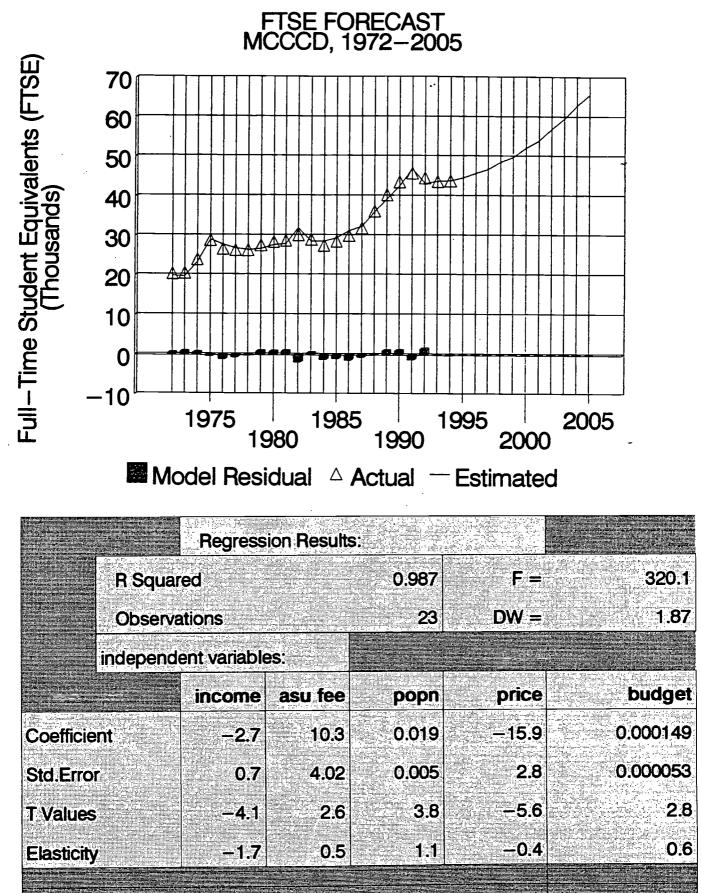




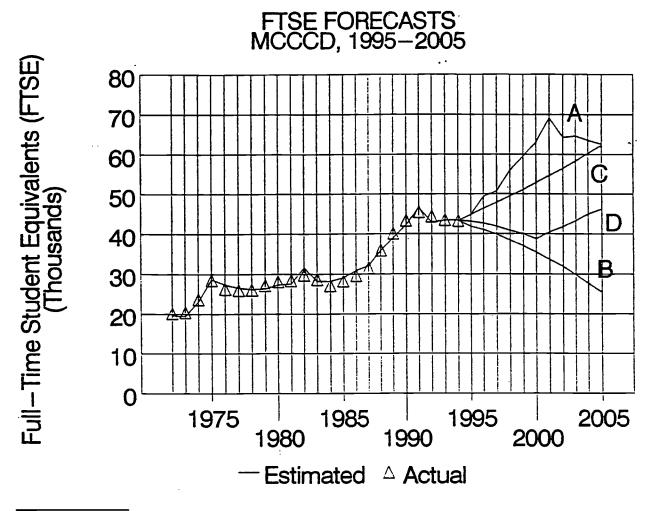
MODEL VARIABLES:

- E = FULL-TIME STUDENT EQUIVALENTS (FTSE)
- P = MARICOPA COLLEGES TUITION AND FEES PER FTSE ARIZONA STATE UNIVERSITY TUITION AND FEES
- Y = MARICOPA COUNTY INCOME PER CAPITA
- **D** = **MARICOPA COUNTY POPULATION**
- S = MARICOPA COLLEGE OPERATING BUDGET









Source: Appendix E.

FUTURE SCENARIOS:

A: History "repeats itself;" the next ten years repeat the pattern of the past ten years.

B: The next ten years will trend like the past four years (since 1991).

- C: The next ten years will trend like the average of the past 22 years (since 1972).
- D: The local economy improves substantially until 2000, after which there is a downturn. CPI increases at slightly higher rate until 2000. Budgets continue to be tight, and basic tuition and fees increase by \$2/unit per year (including continued proportionate increases in other fees, a 9% per year increase). MAG projects a slowing of Maricopa County population growth rates.



MANAGE ENROLLMENTS

ENRLMGMT provides five specific routines or ways in which enrollments — as forecast — may be ADJUSTED:

market: advertise, recruit and articulate
 admit: assess, accept, and inform
 register/enroll: counsel and schedule
 retain: teach, follow—up and counsel
 price: set tuition, fees, and financial aid

market:	MARKETING-ELASTICITY OF ADMISSIONS
	DISTRIBUTION OF FALL APPLICATIONS
. admit:	FALL ADMISSIONS: APPLICATIONS RATIOS
. register/enroll:	NEW FALL ENROLLMENT: ADMISSIONS RATI
	NEW ENROLLMENT RATIOS ACROSS TERMS
. retain:	RETENTION RATIOS ACROSS TERMS
. price:	TUITION, FEES, AND FINANCIAL AID
	ROOM AND BOARD



REVIEW INPUTS FOR ENROLLMENT MANAGEMENT

ASSUMPTIONS/ACTIONS for ENROLLMENT MANAGEMENT, Scenario: 07/09/97 15:47						
MARKET TO NEW STUDEN						
Projected # apps based on:	"elasticity" method.					
Distribution of apps:	Future distribution bas					
	narketing budget to \$14	5,000 (up 25%) in 1998	5			
and to \$17	75,000 in 1999.					
ADMIT NEW STUDENTS						
Ratio Admits to Apps:	Future admissions bas	 sed on CUBBENT VEA	Roractices			
• •	e: 90% from local; 80% f	rom nearby metro area				
	85% from elsewhere ir					
		1 state, 75 % 110111 Out-	-or-slate.			
REGISTER AND ENROLL N	W STUDENTS					
Ratio of Fall to Admits:	Future enrollment bas	ed on CURRENT regis	tration practices!			
Ratio Spring to Fall:	Projection uses "PLUG	GED" values for future	e ratios!			
Ratio Summer to Fall:	Projection uses CURR	ENT year ratio!				
NOTE: No chang	e in registration process	esconstant ratio for fa	all: 75%.			
		on for Spring 1994 mis				
FUTURE CURRICULUM CH	ANGES LIKELY TO IMP	ACT ENROLLMENT	? NO			
RETAIN CONTINUING STU	DENTS					
From Fall to Spring Term:	Current ratio!	0.77 : now	0.77 : in 6 years			
From Spring to Summer Term	: Current ratio!	0.27 : now	0.28 : in 6 years			
From Spring to Fall Term:	Current ratio!	0.62 : now	0.62 : in 6 years			
NOTE: Virtually n	o change		···· · · · · · · · · · · · · · · · ·			
•						
PRICE ALL STUDENTS						
	2by income level:	low: mid:	high:			
•		-2.1 -1.05	-0.45			
Percent of students on aid, by	income level:	low: mid:	high:			
· · · · · · · · · · · · · · · · · · ·		60% 25%	5%			
Students on aid? 1	= Yes, 0=No.	0070 2070	576			
Types:	In Res.Halls	Commuting	Graduate			
Resident, FT	1	1				
Resident, PT	4	і О	1			
Nonres. FT	4	0	0			
	 	1	1			
Nonres. PT	, 1	0	0			
NOTE:						



CHANGE INPUTS FOR ENROLLMENT MANAGEMENT

SCREENS PRESENT ACTUAL DATA ON, SAY, MARKETING AND ADMISSIONS AND PROVIDE INSTRUCTIONS ON HOW TO PROCEED WITH FORECASTS AND PROJECTIONS.

		MARKETING AND	APPLICATIONS		
	MARKETING OU	JTLAYS (MO)	APPS, INQS	ELASTICITY	
			RECEIVED (AI)	E=%dAI/%dMO	
	Nominal	Real		-	
1990	\$100,000	\$115,890	2,203		
1991	\$125,000	\$137,468	2,725	1.27	
1992	\$135,000	\$142,527	3,078	3.52	
1993	\$125,000	\$128,500	2,581	1.64	
1994	\$120,000	\$120,000	2,110	2.76	
		· -	average E	2.30	

Your estimates of marketing outlays are adjusted for price changes in order to measure their impact on the number applications (AI). Elasticity, E: the % change in AI from a a 1% change in marketing outlays (MO), assumes that other factors - like population and demand changes - are neutral.

Review, then press ENTER to proceed!

"Elasticity" Option

	MARKETING
YEAR	OUTLAYS
1990	\$100,000
1991	\$125,000
1992	\$135,000
1993	\$125,000
1994	\$120,000
1995	\$145,000
1996	\$145,000
1997	\$145,000
1998	\$145,000
1999	\$175,000
2000	\$175,000

IN ORDER TO CHANGE YOUR MARKETING STRATEGIES, and, therefore, the likely number of future applications, enter your planned future marketing outlays to the left, USING THE ARROW KEY.

Next, press ENTER to view your "real" (price-adjusted) marketing outlays and the resulting estimated future applications/inquiries.



MENUS ENABLE THE USER TO PROJECT THE DISTRIBUTION OF APPLICATIONS, BY AREA, AND TO SET PROPOSED ADMISSION RATIOS CONSISTENT WITH POLICIES AND PRACTICES

CURRENT 3YR AVE. 5YR TREND PLUG NO PRIOR-MENU Yes, change the estimate using the current distribution.

Distribution Ratios FALL APPLICATIONS/INQUIRIES

	CnMO	StL/KC	OtMO	NonST	
1990	0.55	0.19	0.09	0.17	Review the recent
1991	0.55	0.19	0.09	0.17	trends, and select
1992	0.55	0.19	0.09	0.17	your projection
1993	0.54	0.19	0.10	0.17	technique. OR, if
1994	0.51	0.21	0.11	0.17	your marketing will
1995	0.51	0.21	0.11	0.17	be TARGETED to
1996	0.51	0.21	0.11	0.17	specific groups,
1997	0.51	0.21	0.11	0.17	choose "plug" and
1998	0.51	0.21	0.11	0.17	enter the ratios
1999	0.51	0.21	0.11	0.17	to reflect that
2000	0.51	0.21	0.11	0.17	strategy.

When done, press ENTER to proceed!

Future distribution based on CURRENT YEAR!

CURRENT 3YR AVE. PLUG NO PRIOR-MENU Estimate future admissions using admit:apply ratios from the current year.

			•			
			atios of			
	ADMISSIC	ONS, ACCEPTA	NCES TO A	PPLICATIO	NS. INOUT	RTES
	CnMO	StL/KC	OtMO	NonST	TOTAL	
1990	0.90	0.80	0.85	0.75	0.85	Review, then
1991	0.90	0.80	0.85	0.75	0.85	pick option
1992	0.90	0.80	0.85	0.75	0.85	that best
1993	0.90	0.80	0.85	0.75	0.85	reflects
1994	0.90	0.80	0.85	0.75	0.85	planned
1995	0.90	0.80	0.85	0.75	0.85	future
1996	0.90	0.80	0.85	0.75	0.85	admissions
1997	0.90	0.80	0.85	0.75	0.85	
1998	0.90	0.80	0.85	0.75	0.85	policies and practices!
1999	0.90	0.80	0.85	0.75	0.85	practices:
2000	0.90	0.80	0.85	0.75	0.85	Pouri ou
				01/0	0.05	Review
						results,
						press ENTER

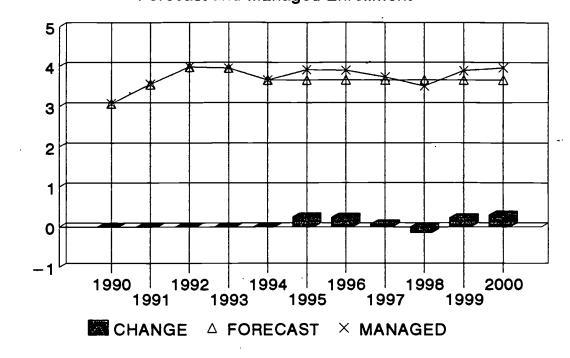
to proceed!

Future admissions based on CURRENT YEAR practices!



REVIEW OUTPUTS FROM ENROLLMENT MANAGEMENT

CHANGES FROM ENROLLMENT MANAGEMENT Forecast and Managed Enrollment



Changes in ENROLLMENT from ENROLLMENT MANAGEMENT Compared to DEMAND POTENTIAL AVERAGE ANNUAL ENROLLMENT (demand forecast) (managed) Difference **AVE.ANNUAL** FALL SPRING AVE.ANNUAL -148

SOURCE: Office of Institutional Research and Planning.

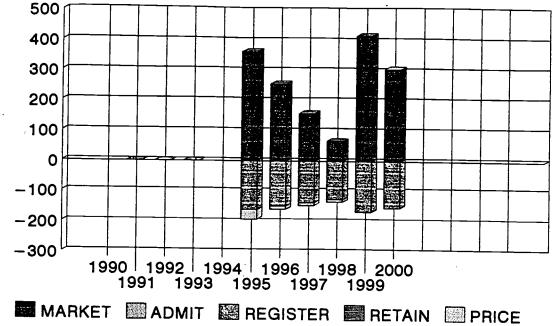


Average Annual Term Headcount

(Thousands)

REVIEW OUTPUTS FROM ENROLLMENT MANAGEMENT

CHANGES FROM ENROLLMENT MANAGEMENT Projected Changes by Type of Action



Changes in ENROLLMENT from										
	ENROLLMENT MANAGEMENT ACTIONS AND ASSUMPTIONS									
	MARKET	ADMIT	REGISTER	RETAIN	PRICE					
	(Averaç	ge Annua	l Values)	(Average)	Annual Val	ues)				
1990)			· · ·						
1991			NOTE: The	changes attributa	ble to eac	h action are				
1992	2		independer	ntly calculated; the	erefore, the	air sum will not				
1993	1					errelated actions!				
1994			•							
1995	360	3	-161	0	31					
1996	253	3	149	0	-11					
1997	155	3	138	0	-10					
1998	64	2	-127	0	-9					
1999	414	3	168	0	-1					
2000	303	3	-155	Ō	Ö					

SOURCE: Office of Institutional Research and Planning.



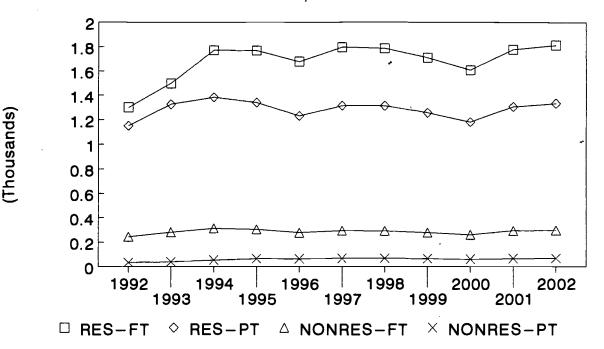
Changed Headcount from Specific Action

14

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REVIEW OUTPUTS FROM ENROLLMENT MANAGEMENT

UNDERGRADUATES BY RESIDENCE AND LOAD Five-Year Actual; Six-Year Forecast



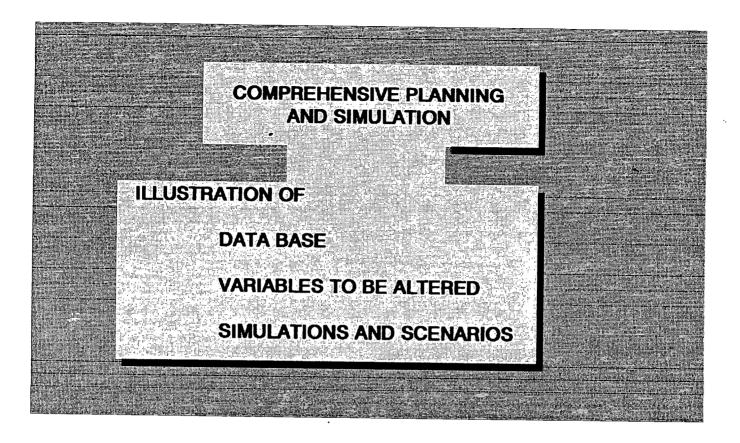
AVERAGE ANNUAL HEADCOUNT ENROLLMENT
BY RESIDENCE, LOAD, AND LEVEL

	TOTAL	RESIDEN	NT-UG N	NONRESID	ENTUG F	RESIDENT	-GR N	ONRESIDE	NTGR
YEAR		FT	PT	FT	PT	FT	PT	FT	PT
1992	2939	1300	1150	244	34	22	179	5	5
1993	3453	1497	1324	281	40	32	265	8	8
1994	3885	1770	1383	311	54	48	308	5	6
1995	3855	1767	1340	304	66	39	331	4	6
1996	3561	1677	1232	277	64	45	257	6	4
1997	3810	1795	1315	294	67	49	279	6	4
1998	3793	1786	1314	291	68	48	275	6	4
1999	3626	1709	1256	278	65	46	262	6	4
2000	3405	1605	1180	261	61	43	245	6	4
2001	3780	1777	1306	. 293	67	49	279	6	4
2002	3852	1813	1334	297	69	49	280	7	4

SOURCE: Office of Institutional Research and Planning.



Average Annual Regular Term Headcount



DISPLAYS: Data Base

Variables to be altered in simulations

Scenario 1A

Run 1A: Summary of key planning information Run 1A: Techniques and assumptions for projections Charts

Scenario 1B Charts

Scenario 1C Charts



41 FULL-TIME FACULTY

	No. of	FT
Fiscal	of FT	Faculty
Year	Faculty	Hires
1991	70	3
1992	71	3
1993	72	5
1994	73	2
1995	75	6

PART-TIME FACULTY Hours per PT Faculty 5.50 6.00 6.00 5.00

Probabilities of Losing a FT Faculty Member in One Year:

Resign	0.015
Retire	0.010
Die	0.001

Enter data in highlighted cells.

51

EXEMPT SUPPORT STAFF*

	No. of	No. of
Fiscal	FTE	FT
Year	Staff	Staff
1991	46.2	44
1992	45.7	44
1993	47.0	45
1994	47.5	45
1995	47.5	45

CLASSIFIED	SUPPORT	STAFF

No. of	No. of
FTE	FT
 Staff	Staff
85.6	75
87.8	76
88.3	77
89.4	78
90.3	79

Enter data in highlighted cells.

*Executive, managerial, and other nonfaculty professionals.



SOME OF THE 70 VARIABLES THAT MAY BE ALTERED IN ORDER TO BUILD PLANNING SCENARIOS

Current Projection Technique
Trend Trend Plug Plug FTE Step * Current Plug Current Trend Plug Current HDCT Step * Current HDCT Step * Current CP! CP! CP! CP! Plug Current Trend Trend Current CP! S–YrAvg Plug Current 4–YrAvg Plug Current 4–YrAvg Plug Current 4–YrAvg Plug CP! FTES+CP! * Plug S–YrAvg Plug CURENT 4–YrAvg Plug CURENT 4–YrAvg Plug CP! FTES+CP! * Plug S–YrAvg Plug CURENT 4–YrAvg Plug CURENT TES+CP! * Plug CP! FTES+CP! * Plug

*If FTES or HDCT appears in the projection technique, this variable will react to a change in enrollment, otherwise it will not.



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Illustrious College, Summary Planning Data Run No. 1A 12/07/94

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MODEL OUTPUT

12/01/04			Projec	tion>				
Data Elements	1994	1995	•			1999	2000	2001
					1000	1333	, 2000	2001
Avg Enrollment per 1	Ferm							
FTE	3,955	4,137	4,254	4,361	4,463	4,566	6 4,671	4,779
Headcount	6,100	6,220	6,346	6,460	6,574			•
.				**				
Curriculum								
Sections	516							
Section Size	34.7	35.9	36.4	36.8	37.2	37.6	s 37.9	38.3
Faculty							-	
FTE	122.3	123.5	126.3	128.8	131.5	134.1	136.9	139.6
Stu:Fac Ratio	32.3							
FT	73							34.2
Percent FT	59.7%	60.7%						
FT Hires	2							
	-	Ū	Ū	5	Ŭ		. 0	0
Staff								
FTE Exempt	47.5	47.5	48.0	48.5	49.0	49.5	50.0	50.5
FTE Classified	89.4	90.3						
Stu:Staff Ratio	28.9	30.0						
Fac:Staff Ratio	0.89	0.90	0.91	0.92				
Annual Change:								
Average Salaries								
FT Faculty	4.0%	4.6%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
FT Staff	3.5%	6.4%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
	E 00/	7 00/						
Total Compensatior	5.8%	7.6%	5.3%	5.5%	5.1%	5.7%	5.1%	5.7%
Operating Expenses								
Utilities	6.0%	4.0%	2.0%	2.0%	2.5%	2.5%	3.0%	3.0%
Equipment	8.5%	7.2%	7.2%	7.2%	7.2%			3.0% 7.2%
Total Expenses	5.7%	5.6%	3.9%	4.0%	4.1%	4.2%		7.2% 4.4%
· - ··· -·· -· ··		0.070	0.070	4.070	7.170	7.270	7.070	4.470
Total Expenditures	5.8%	7.0%	4.9%	5.1%	4.8%	5.3%	4.9%	5.3%
·						0.070		0.070
Revenues								
Tuition & Fees	6.1%	10.2%	8.8%	8.5%	8.3%	8.2%	6.3%	6.4%
State App's	5.7%	9.0%	6.8%	6.5%	6.3%	6.3%	6.3%	6.3%
Local App's	8.6%	5.3%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Total	5.4%	7.6%	5.5%	5.4%	5.4%	5.4%	4.9%	5.0%
Annual Totals (000s) Revenues	¢10 600	\$10 E07	\$14 0E0	#45 400		• • • • • •	• • • • • • •	•· ·
Expenditures	\$12,032	\$10,097	\$14,33U	\$15,130	\$15,946	\$16,815	\$17,644	\$18,534
Net Revenues	φ12,/01 /¢140\	\$13,071 (\$74)	\$14,337				\$17,434	
Transfers	(\$149)	· · · ·		\$66	\$155	\$194	\$210	\$175
	\$346	\$464	\$42 (\$90)	\$42	\$42	\$42	\$42	\$42
Ending Balance	\$0	\$0	(\$29)	(\$4)	\$109	\$261	\$429	\$563
Expenditures								
Per FTE Student	\$3,231	\$3,305	\$3,370	\$3,454	\$3,538	\$3,640	\$3,733	\$3,842
Source: Office of Insti	-			40,7 07	40,000	40,040	ψ0,700	ଡ଼୰,ଡ଼୶୵

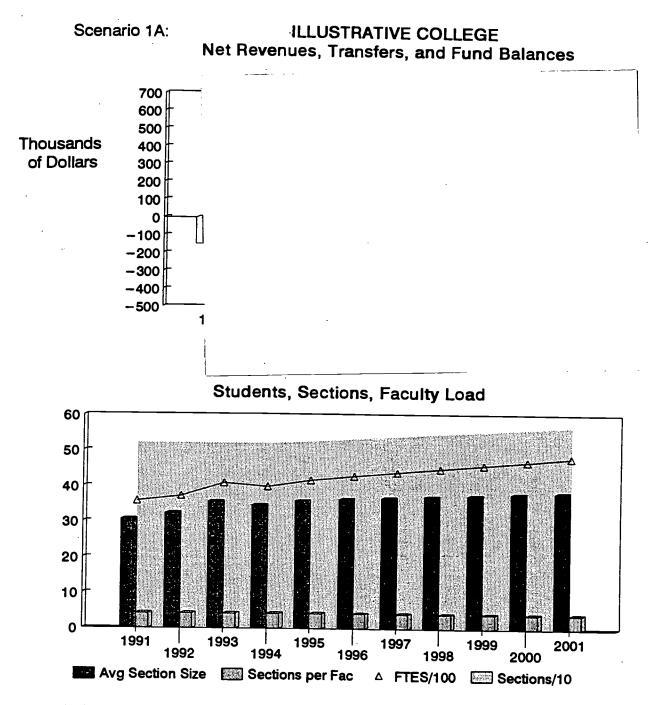


Projection Techni Run No. 1A 12/07/94	ques Used to G	Generate Summary Planning Values	
Element	Technique	Comments:	
Avg Enrollment per	Term		
FTE	Derive	PT students will in an an a	
Headcount	Derive	PT students will increase their academic loads sligh	ntly.
Curriculum			
Sections	FTE Step	No major changes and it is a set	
Section Size	Derive	No major changes anticipated in curriculum. Increases slightly.	
Faculty		*	
FTE	Derive	Slight degreese and the	
Stu:Fac Ratio	Derive	Slight decrease expected in section load.	
FT	Derive		
Percent FT	Trend	Like poet continues to t	
FT Hires	Derive	Like past, continues to increase each year.	
Staff			
FTE Exempt	HDCT Step		
FTE Classified	HDCT Step		
Stu:Staff Ratio	Derive		
Fac:Staff Ratio	Derive		
Annual Change:			
Average Salaries	•		
FT Faculty	CPI		
FT Staff	Plug	To increase at three-fourths of CPI.	
Total Compensation	Derive		
Operating Expenses			
Utilities	Plug		
Equipment	Current		
Total Expenses	Derive		
Total Expenditures	Derive		
Davis			
Revenues			
Tuition & Fees	Derive		•
State App's	FTES+CPI		
Local App's	Plug	Projected at fraction of historical rate!	
Total	Derive	en en en insterieur rate:	
Annual Totais (000s)			
Revenues	Derive		
Expenditures	Derive		
Net Revenues	Derive		
Transfers	Derive	Special reserve funde wood to bat	
Ending Balance	Derive	Special reserve funds used to balance general fund.	
Expenditures			
Per FTE Student	Derive		
Source: Office of Institu	itional Analysis.		
	-	-	



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HISTORY: Aside from 1994, FTES have increased over the past five years. The number of sections and faculty has been constant and, therefore, section size has increased.

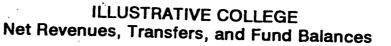
Due to five years of overspending, the College has had to borrow \$850,000 from a "special reserve" fund to balance the General Fund.

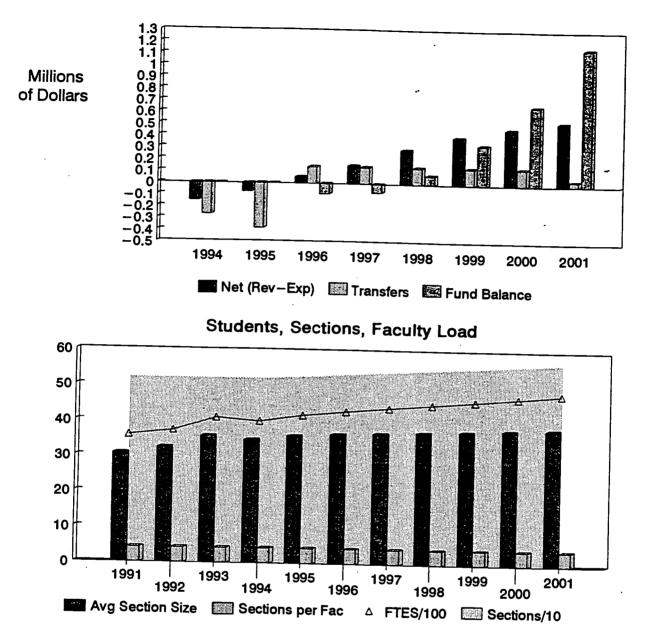
Scenario 1A:

FTES is expected to increase by just over 2% annually. Plans call for a moderate increase in course sections and slight decrease in faculty section load, allowing section size to increase, but at a lower rate than in the past. However, General Fund deficits are expected during the next two years, improving somewhat thereafter. Moreover, local appropriations are projected at a lower rate (2% annual increase) than recent history would support.









Scenario 1B:

- 1. Repay "special reserve" fund \$500,000 over next five years.
- 2. Slightly more optimistic projection of local appropriations: 3% annual increase, rather than the 2% estimated in Scenario 1A.
- 3. Hold full-time/part-time faculty ratio at current levels (60%), rather than have it increase up to 65% as in Scenario 1A.

Results:

Ending balances build to an acceptable level of 6% (of budget) by 2001, but there are still deficits during the next two years. Moreover, plans to continue course section size increases meet with faculty resistance. Need to reduce expenditures in the near term and reconsider plans for the future number of course sections.

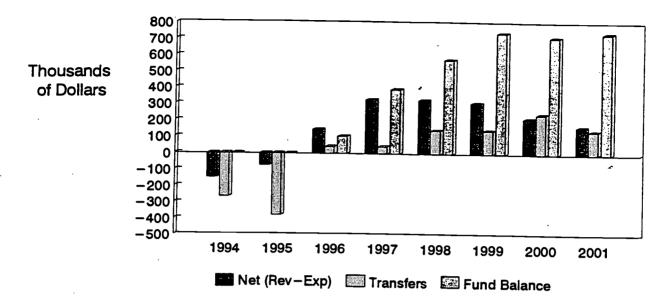


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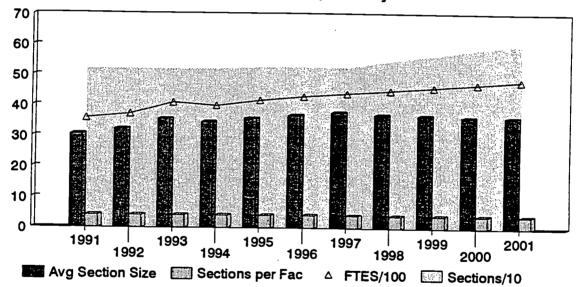
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Scenario 1C:





Students, Sections, Faculty Load



Scenario 1C:

- 1. Repay special reserve fund \$500,000 over 5 years, but begin in 1997–98, with increased payments later.
- Slightly more optimistic projection of local appropriations:
 3%, rather than 2% annually, like Scenario 1B.
- 3. Hold full-time/part-time faculty ratio at current levels (60%), like Scenario 1B.
- 4. Delay increasing course sections until 1997–98, then add sections to reduce section size to current level by 2001.
- 5. Reduce equipment expenditures in near term (2% increase next year), then increase in long term.

Results:

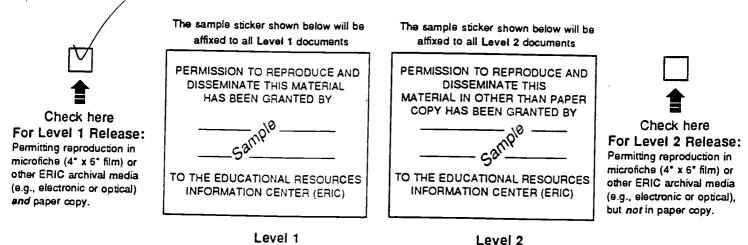
Near term ending balance deficits are eliminated and balances build to an acceptable level of 4% (of budget) by 2001.

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