Information Technology Fee for Montana State University

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Information Technology Fee for Montana State University-Bozema

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Montana State University IT Infra	structure	Replace	ment Pro	gram - N	ISU-Boz	eman Pla	ın			Page 3
	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13
Revenues - MSU Bozeman	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Switch Port Activations	\$25,000	\$25,000	\$25,000	\$25.000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Interest Income	6,665	10,306	4,661	φ25,000	2,812	5,222	4,754	3,173	2,745	1,340
Land Grant OLP	150,000	150,000	330,000	69,863	71,959	74,117	76,341	78,631	80,990	83,420
Tel R&R Contribution Seed	75.000	50.000	330,000	09,003	71,535	74,117	70,341	70,031	00,990	03,420
Tel R&R Telephone Structured Wiring	75,000	5,883	55,883	55,883	55,883	55,883	55,883	55,883	55,883	55,883
	333,274	3,003	55,665	33,663	55,665	55,665	33,663	55,665	33,663	55,665
Data Capital Projected balance-include Inventory		00.004	00.457							
Oracle Upgrade Financing	78,074	80,081	82,157							
ITC Compensated Balance Transfer	88,982	88,982	88,982	202 402	205 200	207.212	4 004 000	4 000 740	4 070 007	4 4 4 0 5 0 4
Student IT Fee Income				903,466	935,088	967,816	1,001,689	1,036,749	1,073,035	1,110,591
ITC General Operating Account	303,146	303,146	303,146	193,146	193,146	193,146	193,146	193,146	193,146	193,146
Institutional Commitment from General Operations				69,863	71,959	74,117	76,341	78,631	80,990	83,420
Contribution Commitment - AES				49,266	50,744	52,266	53,834	55,449	57,112	58,826
Contribution Commitment - ES & Fire Training School				40,206	41,412	42,654	43,934	45,252	46,610	48,008
Contribution Commitment - Current Restricted				190,198	195,904	201,781	207,835	214,070	220,492	227,107
Contribution Commitment - Auxillaries				92,786	95,570	98,437	101,390	104,431	107,564	110,791
Total Revenues	\$1,060,142	\$713,398	\$889,829	\$1,689,677	\$1,739,475	\$1,790,440	\$1,840,147	\$1,890,415	\$1,943,567	\$1,997,531
Student Fee Per Semester	FY 07 rate repres	ents this		34.93	36.15	37.42	38.73	40.08	41.49	42.94
Percentage Increase	annual percent inc	crease since 1998		4.27%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
MSU-Bozeman Expenditures Multi-Campus Share of Expenses	\$332,534	\$585,113	\$751,746	\$857,264	\$932,710	\$968,323	\$977,286	\$955,792	\$1,009,845	\$1,063,758
On-Going Replacements & Commitments										
Existing Debt Retirement-Networking-Page 6	70,501	80,360	79,926	79,520	79,118	78,730	78,305	9,925		
Existing Debt Retirement-Network Equipment-Page 7	92,585		79,920	79,520	79,110	70,730	76,305	9,925		
Existing Debt Retirement-Network Equipment-Page 7 Existing Debt Retirement-Data Servers-Page 8		92,585								
	17,413	70.057	00.057	00.040	440.400	4.40.40.4	400.000	404.000	004.404	047.447
Networking Debt Retirement-Page 6	31,828	78,657	63,657	89,913	116,168	142,424	168,680	194,936	221,191	247,447
Network Equipment Debt Retirement-Page 7	0	34,660	105,261	138,384	168,914	271,746	309,686	337,622	343,658	340,519
Data Servers Debt Retirement-Page 8	0	50,754	72,951	89,851	104,867	170,501	253,690	278,753	304,198	273,975
Other Data Equipment Debt Retirement-Page 9	0	13,068	16,541	21,160	28,888	29,711	34,685	35,490	33,174	33,441
Total On-Going Replacements	212,328	350,084	338,336	418,827	497,955	693,112	845,045	856,726	902,222	895,382
Potential Enhancements										
New Initiatives Debt Retirement-Page 10	0	60,447	141,397	164,389	188,305	152,376	96,895	99,297	101,754	77,237
Total MSU-Bozeman Expenditures	\$544,861	\$995,643	\$1,231,478	\$1,440,480	\$1,618,970	\$1,813,811	\$1,919,226	\$1,911,814	\$2,013,822	\$2,036,378
								•		
Fund Balance	\$515,281	\$233,035	(\$108,614)	\$140,583	\$261,088	\$237,717	\$158,638	\$137,238	\$66,983	\$28,136

Montana State University - Bozeman IT Infrastructure Program - Assumptions

Multi-Campus Equipment/Software & MSU-Bozeman Equipment/Software

- * Project replacement and potential enhancement costs for 10 Years FY 04 through FY 13
- * The plan will be updated each year and extended an additional year; zero-base the plan every 5 years
- * Replacement Cycle Servers/Printers-4 Yr, UPS-6 Yr, Network Eq-7 Yr, Bldg Wiring-12 Yr, Fiber Backbone, AC, Generator Connection, Halon Repl-18 Yr
- * Purchases of equipment will be financed over the lifecycle
- * Assume a borrowing interest rate of 4%
- * Calculate Consumer Price Index for inflation factor for categories of equipment; use the national CPI floating 10 year average; 2.46% for CY 93 to 02
- * Calculate Software License Maintenance Renewals at 5% and 8% for SCT, 5% for Windows, Oracle, Legato
- * Calculate SCT Software License Agreement upgrade to 7x24 15%; renegotiate contract at 12/31/04 10%
- * Interest income on fund balance assume rate of 2%
- * Student enrollment use FY 03 level; MSU-Bozeman 10,670
- * Use FY 02 Actual Network Fee Income \$632,839 per FY 02 FTE Student Enrollment 10,444 to calculate the yield per FTE=\$60.60 per Student FTE (2.424)
- * Banner Debt Service will be paid in full 11/15/05; Student Fee income for IT Infrastructure is not available until FY 07
- * Include purchase of extended warranty for the lifecycle of equipment purchased as equipment cost
- * Include mandatory software purchased with equipment as equipment cost, i.e. Oracle licenses
- * Add a category for renewal of software purchased with equipment in the IT Infrastructure Program; i.e. SCT License agreement, Oracle License
- * This program does not include desktop equipment, departmental servers, Smart Podium equipment, Student Lab equipment, nor Telephone System
- * No personnel costs will be included
- * If any negative fund balance will result from the formula calculations, adjustments will be made in the plan in the appropriate year to keep the balance positive

Mon	itana Sta	te Unive	rsity IT In	frastructi	ure Repla	cement Pi	rogram -	MSU-Bo	zeman No	etworkin	g		Page 5
I	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	
	Actual	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected No	otes
Networking Projects													
Miscellaneous Buildings	\$21,317	\$562	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000 Re ca	emove old able/conduit
Tools & Equipment	8,643	,											
Inventory Purchases		97,892	(50,029)										
Hamilton Hall-Thinwire to Cat 5E	59,850												
Linfield Hall-Thinwire to Cat 5E	61,117	91,899											
Leon Johnson-Thinwire to Cat 5E	56,144	174,014	101,800										
Cobleigh Hall-Thinwire to Cat 5E	20,449	109,057	69,265										
Graduate Art Studio New Cat 5E		4,417											
Insect Labs-New Cat 5E		16,054											
Gaines Hall-Thinwire to Cat 6	İ		175,000									pro be	o Renovation oject will likely funded by ate
Roberts Hall-Thinwire to Cat 6	1,414		82,456									31	aic
Reid Hall-Thinwire to Cat 6	656		208,508										
Replace Fiber Backbone												2,524,20018	3 Year Life
												,	cle from year stalled in 1995
Replace Building Wiring					233,267	233,267	233,267	233,267	233,267	233,267	233,267		Year Life ycle-see hedule below;
Total Networking	\$229,590	\$500,000	\$602,000	\$15,000	\$248,267	\$248,267	\$248,267	\$248,267	\$248,267	\$248,267	\$248,267		e average
Amortization Schedule													
Loan Proceeds #1		144,000											
Amortization #1		1,491	22,666	22,732	22,781	22,841	22,903	22,970	23,023			3.	Year Loan @ 15/2.85%-
Loan Proceeds #2		90,000										7 \ 3.)/18/02 Year Loan @ 15/2.85%-)/18/02

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Amortization #2	932	14,166	14,207	14,238	14,275	14,314	14,356	14,389				
Loan Proceeds #3	129,000	,	, -	,	, -	,-	,	,			3	Year Loan @ .15/2.85%- 1/29/02
Amortization #3	891	20,305	20,364	20,408	20,461	20,517	20,577	20,624				
Loan Proceeds #4	137,000											Year Loan @ .85%-2/13/03
Amortization #4		13,365	23,058	22,500	21,942	21,384	20,826	20,269	9,925			
Subtotal Amortization	\$3,314	\$70,501	\$80,360	\$79,926	\$79,520	\$79,118	\$78,730	\$78,305	\$9,925	\$0	\$0	
Loan Proceeds #5		602,000										
Amortization #5		31,828	63,657	63,657	63,657	63,657	63,657	63,657	63,657	63,657		2 Year Loans @ %
Loan Proceeds #6				248,300	20, 250	20, 250	20, 250	20, 250	00.050	20, 250	20, 250	
Amortization #6 Loan Proceeds #7					26,256 248,300	26,256	26,256	26,256	26,256	26,256	26,256	
Amortization #7					240,000	26,256	26,256	26,256	26,256	26,256	26,256	
Loan Proceeds #8						248,300	_0,_00	_0,_00	_0,_00	_0,_00	_0,_00	
Amortization #8							26,256	26,256	26,256	26,256	26,256	
Loan Proceeds #9							248,300					
Amortization #9								26,256	26,256	26,256	26,256	
Loan Proceeds #10								248,300	00.050	00.050	00.050	
Amortization #10 Loan Proceeds #11									26,256 248,300	26,256	26,256	
Amortization #11									240,300	26,256	26,256	
Loan Proceeds #12										248,300	20,200	
Amortization #12										,	26,256	
Loan Proceeds #13											Y	2,524,200 is 18 r loan; balance s 12 Yr loan
Amortization #13												
Subtotal Amortization	\$0	\$31,828	\$63,657	\$63,657		· /	. ,	· ,	\$194,936		\$247,447	
Total Amortization	\$3,314	\$102,330	\$144,017	\$143,583	\$169,432	\$195,287	\$221,154	\$246,985	\$204,861	\$221,191	\$247,447	
Cash Outlay			\$15,000									
Total Amortization & Cash	\$3,314	\$102,330	\$159,017	\$143,583	\$169,432	\$195,287	\$221,154	\$246,985	\$204,861	\$221,191	\$1,667,153	

Includes \$15,000 costs to remove old raceway, conduit, cable and re-finish surfaces - to meet new electrical codes

Existing Investments - 10 Year Life - Building Wiring; 15 Year Life - Fiber Optic Cable

Fiber Optic Cabling - \$1,629,842 \$108,656

1995-6

Building Wiring - 1995 to 2004-Excluding Network Equipment; Costs do not include contractor costs when part of remodel, renovation or construction

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1996	\$196,477					
1997	598,349					
1998	255,481					
1999	111,329					
2000	45,470					
2001	8,961					
2002	121,225					
2003	492,114					
2004	592,724					
	2,422,130					
Building Wiring Costs inflat	ed 10 years begin FY 06	\$250,527 \$762,954 \$325,763	\$141,955 \$	557,979 \$11,426	\$154,574	\$627,494

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Montana State University IT Infrastructure Replacement Program - MSU-Bozeman Network Equipment

	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13
	Actual	Projected	Projected I	Projected I	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected Notes
Existing Debt Retirement												
Debt Service-Core/IDF	\$92,585	\$92,585	\$92,585	\$92,585								
Upgrade Nework Equipment												
Core/IDF Upgrade							\$410,365					7 years life cycle
Intrusion Detection System	14,970						Ψ110,000	\$17,746				7 years life cycle
Groovy Network Monitoring	2,704				\$4,082			¥,		\$1.102		4 years life cycle
Faust Detection System	3,907				5,408					7,062		4 years life cycle
Internet Traffic Shaping	21,433				,			25,408		,		7 years life cycle
Fiber Test Equipment							10,426					7 years life cycle
CiscoWorks - switch & router management				10,800				11,903				4 years life cycle
Cricket Network Monitoring				1,890				2,083				4 years life cycle
Cobleigh - 3rd Fl Telecom Room Cisco Switch	3,136											included in Future Bldg Network Replacement
EPS Building-4 Telecom Room Cisco Switches		39,524										included in Future Bldg Network
Culbertson - Telecom Room Cisco Switches		18,368										Replacement included in Future Bldg Network Replacement
Lewis - Telecom Room Cisco Switch & Modules		13,218										included in Future Bldg Network Replacement
Cooley - Telecom Room Cisco Switch		10,892										included in Future Bldg Network Replacement
Miscellaneous Small Bldgs Switch Equipment		8,203	5,000	5,000	5,000	\$5,000	5,000	5,000	\$5,000	5,000	\$5,000	
Building Network Switch Replacement			179,767	179,767	179,767	179,767	179,767	179,767	179,767	179,767	179,767	179,767see schedule below; 7 year life cycle; use average
Single Mode Fiber Termination												include in networking
Internet I Router/VPN Switch Cisco Switch Maintenance			25,000	104,175			112,053			29,636 120,528		7 years life cycle Cisco maintenance

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Renewal													large switch/routers-3 yr life cycle
LJ 4006 Switch Maintenance	7,230												included in Cisco maintenance
Wireless Access Equipment		3,670											See New Initiatives for additional wireless
Total Network Equipment	\$53,380	\$93,873	\$209,767	\$301,632	\$194,257	\$184,767	\$717,611	\$241,907	\$184,767	\$343,095	\$184,767	\$184,767	equipment
Amortization Schedule Loan Proceeds #1			209,800										7 year loans @ 4%
Amortization #1			203,000	34,660	34,660	34,660	34,660	34,660	34,660	34,660			7 year loans & 470
Loan Proceeds #2				299,500									\$104,200 is 3 yr; \$10,500 is 4 Yr; balance is 7 yr loan
Amortization #2					70,601	70,601	70,601	33,396	30,530	30,530	30,530		·
Loan Proceeds #3					194,300								\$9,500 is 4 yr; balance is 7 year loan
Amortization #3 Loan Proceeds #4						33,123 184,800	33,123	33,123	33,123	30,530	30,530	30,530	
Amortization #4						, , , , , , ,	30,530		30,530	30,530	30,530	30,530	
Loan Proceeds #5							717,600						\$112,000 is 3 yr; balance is 7 year loan
Amortization #5 Loan Proceeds #6								140,037 239,500		140,037	100,048	100,048	\$11,500 is 4 yr;
Amortization #6								200,000	40,806	40,806	40,806	37,667	balance is 7 year loan
Loan Proceeds #7									184,800	40,606	40,606	37,007	
Amortization #7										30,530	30,530	30,530	
Loan Proceeds #8										343,000			\$120,600 is 3 yr; \$8,200 is 4 yr; balance is 7 yr loan
Amortization #8 Loan Proceeds #9											80,686 184,800	80,686	
Amortization #9											104,000	30,530	1
Loan Proceeds #10 Amortization #10												184,800)
Total Amortization-New Loans		\$0	\$0	\$34,660	\$105,261	\$138,384	\$168,914	\$271,746	\$309,686	\$337,622	\$343,658	\$340,519	
Grand Total Expenses	•	\$92,585				\$138,384	\$168,914	\$271,746	\$309,686	•	\$343,658		
Bldg Electronics Costs Inflated over 6 years			442,577	81,112	50,700	66,011	53,015	298,406	124,942	524,650	96,154	60,102	
Building Electronics Spent in Wiring Projects		Bldg Wiring	Tel R&R	453446	Total								
gy		\$53,558	\$10,718		\$64,276								

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	1997	243,619			243,619					
	1998	53,619			53,619					
	1999	70,107			70,107					
	2000	43,821			43,821					
	2001	22,909	34,146		57,054					
	2002	42,686	3,136		45,822					
	2003	188,635		\$69,283	257,918					
	2004	107,990			107,990					
		826,944	47,999	69,283	944,226					
Maintenance on Cisco switches	2001		83,536		83,536					
all to 1/31/05	2002	4,084	7,230		11,314					
Core Upgrade	2001		320,791		320,791	Cisco Works computer	2001	\$6,099	\$8,100	
ITC Installation	2001		17,068		17,068	UPS for 6509 Core Switch	2001	1,100	3,101	
Single Mode Test Kits	2001		8,000		8,000	Packeteer Software	2002	21,433	23,435	
Fiber Launch Cables	2001		795		795	Cisco Intrusion Detection	2002	14,969	16,971	
Monitoring PC- Cricket/Webhost	2001		1,515		1,515					

Monta	ına State	University	IT Infras	tructure F	Replacem	ent Prog	ram - MSI	U-Bozem	an Data S	ervers			Page
I	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	
	Actual	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	I Notes
Current Debt Service-Servers	\$17,223	\$16,884	\$17,413										
Data Server Equipment													
Netra News Server	2,247	7			\$3,577				\$3,941				
DNS1 Domain Name #1	1,907	7			3,202				3,528				
Onyx Primary Domain Controller	2,896	6			4,292				4,729				
Obsidian Backup Domain Controller - Dione 2	2,896	6			4,292				4,729				
Topaz Public Softw Distribution	8,744	1			11,507				12,677				
Ruby Application Server	9,130)			12,593				13,874				
What's Down Monitoring	1,206	6			1,549				1,707				
What's Up Monitoring	1,297	7			1,649				1,817				
Opal AXP Group Shares, etc					19,179				21,130				Orig purchased 11/27/01
IP4You - DHCP Server		4,961				\$6,570				\$7,240)		
Mail 1 E-mail Server #1		3,314				4,754				5,240)		
Mail 2 E-mail Server #2		5,656				8,107				8,935	i		
Stratus Student Web E-Mail		32,914				30,764				33,904	Į.		Appls reqr new server; Student Web E-mail Server
Unix Monitoring		3,314				4,754				5,240)		
TREX2 Replacement		·	28,451				\$31,355				\$34,556		Orig purchased 6/24/97
MAIA Replacement			28,451				31,355				34,556		Orig purchased 6/24/97
Jade Replacement			28,919				31,871				35,125		Orig purchased 4/3/98
Gemini Faculty/Staff Accts			80,767				89,013				98,100		Orig purchased 5/25/99 stays UNIX -Allen Porter aps
DNS2 Domain Name #2			6,436				7,094				7,818		Orig purchased 1/25/99
Web 1 Web Access #1			6,436				7,094				7,818		Orig purchased 1/25/99
Web 2 Web Access #2			6,436				7,094				7,818		Orig purchased 1/25/99
Emerald Exchange Server #1			.,	\$24,577			,	\$27,086			,	\$29,85	1 Orig purchased 1/18/01
Tanzanite Exchange #2				24,577				27,086					1Orig purchased 1/18/01
DC1 Windows 2000 Dom Ctr				16,029				17,665					9Orig purchased 3/2/01
DC2 Windows 2000 Dom#2				16,029				17,665					9Orig purchased 3/2/01

New Initiative Replacements							221,357	296,498	85,498	87,601	89,756	•	Used total amounts from Other Initiative
													spreadsheet
Total Equipment	\$30,322	\$50,159	\$185,897	\$81,211	\$61,841	\$54,949	\$426,232	\$386,000	\$153,630	\$148,160	\$315,547	\$190,603	
Amortization Schedule													
Loan Proceeds #1			185,900										
Amortization #1				50,754	50,754	50,754	50,754						4 Year loans @ 4%
Loan Proceeds #2				81,300									
Amortization #2					22,197	22,197	22,197	22,197					
Loan Proceeds #3					61,900								
Amortization #3						16,900	16,900	16,900	16,900				
Loan Proceeds #4						55,000							
Amortization #4							15,016	15,016	15,016	15,016			
Loan Proceeds #5							426,300						
Amortization #5								116,388	116,388	116,388	116,388		
Loan Proceeds #6								386,000					
Amortization #6									105,386	105,386	105,386	105,386	
Loan Proceeds #7									153,700				
Amortization #7										41,963	41,963	41,963	
Loan Proceeds #8										148,200			
Amortization #8											40,462	40,462	
Loan Proceeds #9											315,600		
Amortization #9												86,165	
Loan Proceeds #10												190,700)
Amortization #10													
Total New Amortization		\$0	\$0	\$50,754	\$72,951	\$89,851	\$104,867	\$170,501	\$253,690	\$278,753	\$304,198	\$273,975	•
Total Expense	_	\$16,884	\$17,413	\$50,754	\$72,951	\$89,851	\$104,867	\$170,501	\$253,690	\$278,753	\$304,198	\$273,975	

Montana State University IT Infrastructure Replacement Program - MSU-Bozeman Other Data Equipment

		FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10 Projected	FY 11 Projected	FY 12 Projected	FY 13 Projected Notes
Other Data Equipment	Actual	Aotuai	i rojecteu	rojecteu	i rojecteu i	Tojectea	Tojecteu	i rojecteu i	rojecteu	i rojecteu i	rojecteu	1 Tojected Hotes
HP Laserjet 8150	\$4,595	i				\$5,189					\$5,859	5 year life cycle
Central Line Printers				\$12,123					\$13,689			5 year life cycle; repl 3 DEC LG12s with 2 printers
Other Operations Equipment		\$3,265			\$3,512	3,598	\$3,687	\$3,778	3,870	\$3,966	4,063	\$4,163 racks, kvm, etc.; 5 year life cycle
Data Backup System - Super DLT			45,095					50,921				Legato Licenses-\$11,095 included; 5 year cycle
Compaq DLT Mini Library- Jewels						30,507						35,296 purchased 6/4/01 - 6 year life cycle
Powerware UPS Rack Mount Systems - 75%		21,875						18,982				6 year life cycle
Instructor Eval/Exam Scoring Scanner			12,000						13,884			6 year life cycle
Halon Replacement												147,389 Assume 18 yr life; depends if system discharges
Generator Connection - 69%		37,051										Servers+Netwk Eq on Building Generator - 18 year
Liebert AC - 30 Ton - 69%												Original Cost - \$134,777 6/96, paid 464115;18 Yr cycle
Liebert AC - 20 Ton - 100%					28,865							18 year life cycle; used repl cost 4/2/03
Total	\$4,595	\$62,191	\$60,440	\$15,551	\$32,377	\$39,294	\$3,687	\$73,681	\$31,444	\$3,966	\$9,922	\$186,848
Amortization Schedule												5 Year Loans @ 4%
Loan Proceeds #1			60,500									\$12,000 is 6 year loan; baland is 5 year
Amortization #1 Loan Proceeds #2				13,068 <i>15,600</i>	13,068	13,068	13,068	13,068	2,269			
Amortization #2				,	3,473	3,473	3,473	3,473	3,473			
Loan Proceeds #3					32,400	, -	,	, -	,			\$18,000 is 18 year loan; balance is 5 year
Amortization #3						4,619	4,619	4,619	4,619	4,619	1,412	1,412
Loan Proceeds #4						39,300						\$30,500 is 6 year loan; balanc is 5 year

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Amortization #4					7,727	7,727	7,727	7,727	7,727	5,768	
Loan Proceeds #5					3,700						
Amortization #5						824	824	824	824	824	
Loan Proceeds #6						73,700					19,000 is 6 year loan; balance 5 year
Amortization #6							15,772	15,772	15,772	15,772	
Loan Proceeds #7							31,500				13,900 is 6 year loan; balance 5 year
Amortization #7								6,547	6,547	6,547	
Loan Proceeds #8								4,000			
Amortization #8									891	891	
Loan Proceeds #9									10,000		
Amortization #9										2,227	
Loan Proceeds #10											147,400 is 18 year van;\$35,300 is 6 yr, \$4,100 5
Amortization #10											
Total Amortization	\$0	\$13,068	\$16,541	\$21,160	\$28,888	\$29,711	\$34,685	\$35,490	\$33,174	\$33,441	

Montana State University IT Infrastructure Replacement Program - MSU-Bozeman New Initiatives

	FY 03 Actual		FY 05 Projected	FY 06 Projected	FY 07 Projected	FY 08 Projected	FY 09 Projected	FY 10 Projected	FY 11 Projected	FY 12 Projected	FY 13 Projected	d Notes
New Initiatives												
Critical Server Redundancy - Gemini		\$80,767										Gemini
Gateway Firewall #1		26,000										
Gateway Firewall #2		4,640										
Other Critical Server Redundancy		71,500										Topaz, Opal, Pandora
Cisco Wireless Management - HW/SW		6,100										Maintenance is \$1,820/year
Wireless Authentication Gateway - HW/SW		22,350										Maintenance is \$1,060/year
Wireless Equipment - various buildings		10,000	\$10,246	\$10,498	\$10,756	\$11,021	\$11,292	\$11,570	\$11,854	\$12,146	\$12,44	5
DHCP Server Redundancy			6,252									
Single Sign-on Server			30,000									
Portal Initiative			250,000									
Future Initiatives				75,000	76,845	78,735	80,672	82,657	84,690	86,774	88,908	8
Total	0	221,357	296,498	85,498	87,601	89,756	91,964	94,227	96,545	98,920	101,350	3
Amortization Schedule												
Loan Proceeds #1		221,400										4 Year Loans @4%
Amortization #1			60,447	60,447	60,447	60,447	,					
Loan Proceeds #2			296,500									
Amortization #2				80,950		80,599	80,599					
Loan Proceeds #3				85,500								
Amortization #3					23,343		23,343	23,343				
Loan Proceeds #4					87,600							
Amortization #4						23,917		23,917	23,917			
Loan Proceeds #5						89,800		04.543	04.543	04.547		
Amortization #5							24,517		24,517	24,517		
Loan Proceeds #6							92,000		25 440	OF 440	OE 444	0
Amortization #6 Loan Proceeds #7								25,118		25,118	25,118	0
								94,300		25.746	25 74	6
Amortization #7									25,746	25,746	25,746	0

7 mao	111101110						ı age	•			
Loan Proceeds #8									96,600	'	
Amortization #8										26,374	26,374
Loan Proceeds #9										98,900	
Amortization #9											27,002
Loan Proceeds #10											101,400
Amortization #10											
Total Amortization	0	\$0	\$60,447	\$141,397	\$164,389	\$188,305	\$152,376	\$96,895	\$99,297	\$101,754	\$77,237

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Information Technology Fee for MSU-Billings

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MSU-Billings Administrative Computing Resources												
Network Service Fee per SCH (current 5.45)	\$.45	\$560,717.80										
FY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Approximate Current Obligations - Some variations year to year Banner Operations - ongoing	\$25,907.00	\$26,943.28	\$28,021.01	¢20.444.95	\$ 30,307.53	\$31,519.83	\$32,780.62	¢ 24 004 94	¢ 25 455 52	\$36,873.74	\$ 38,348.69	
(4%)	\$25,907.00	Φ20,943.20	φ20,021.01	\$29,141.85	\$ 30,307.53	Ф 31,319.63	\$32,700.02	\$ 34,091.84	\$ 35,455.52	Ф30,073.74	Ф 30,340.09	
Campus Infrastructure - Debt Service	35,000.00	335,000.00	335,000.00	335,000.00	-	-	-	-	-	-	-	
MSU Central Debt Service	1,881.00	41,881.00	41,881.00	41,881.00	-	-	-	-	-	-	-	
IT Banner support (4%)	60,000.00	62,400.00	64,896.00	67,491.84	70,191.51	72,999.17	75,919.14	78,955.91	82,114.14	85,398.71	88,814.66	
Banner	35,000.00	60,332.00	106,157.00	136,389.00	155,534.00	169,222.00	175,683.00	177,309.00	173,409.00	183,216.00	192,998.00	
Banner Total	497,788.00	526,556.28	575,955.01	609,903.69	256,033.04	273,741.00	284,382.76	290,356.75	290,978.66	305,488.45	320,161.35	
Campus Server (2%)	125,000.00	128,750.00	132,612.50	136,590.88	140,688.60	144,909.26	149,256.54	153,734.23	158,346.26	163,096.65	167,989.55	
Campus Infrastructure (2%)	100,000.00	103,000.00	106,090.00	109,272.70	112,550.88	115,927.41	119,405.23	122,987.39	126,677.01	130,477.32	134,391.64	
Desktop and Server Security (4%)	20,250.00	21,060.00	21,902.40	22,778.50	23,689.64	24,637.22	25,622.71	26,647.62	27,713.52	28,822.06	29,974.95	
Software (Microsoft etc.) (4%)	45,000.00	46,800.00	48,672.00	50,618.88	52,643.64	54,749.38	56,939.36	59,216.93	61,585.61	64,049.03	66,610.99	
Infrastructure Total	290,250.00	299,610.00	309,276.90	319,260.95	329,572.75	340,223.27	351,223.83	362,586.17	374,322.40	386,445.06	398,967.12	
Internet Services	42,000.00	42,000.00	44,100.00	44,100.00	44,100.00	44,100.00	44,100.00	46,305.00	48,620.25	51,051.26	53,603.83	
College of Technology Network Connection	16,260.00	16,260.00	17,073.00	17,073.00	17,073.00	17,073.00	17,073.00	17,073.00	17,073.00	17,073.00	17,073.00	
Billings Downtown Network	4,200.00	4,200.00	4,410.00	4,410.00	4,410.00	4,410.00	4,410.00	4,410.00	4,410.00	4,410.00	4,410.00	
Connection Network Total	62,460.00	62,460.00	65,583.00	65,583.00	65,583.00	65,583.00	65,583.00	67,788.00	70,103.25	72,534.26	75,086.83	
Campus Computers and Printers (3%)	359,375.00	370,156.25	381,260.94	392,698.77	404,479.73	416,614.12	429,112.54	441,985.92	455,245.50	468,902.86	482,969.95	
Banner Total	497,788.00	526,556.28	575,955.01	609,903.69	256,033.04	273,741.00	284,382.76	290,356.75	290,978.66	305,488.45	320,161.35	
Infrastructure Total	290,250.00	299,610.00	309,276.90	319,260.95	329,572.75	340,223.27	351,223.83	362,586.17	374,322.40	386,445.06	398,967.12	
Network Total	62,460.00	62,460.00	65,583.00	65,583.00	65,583.00	65,583.00	65,583.00	67,788.00	70,103.25	72,534.26	75,086.83	
Campus Computers and Printers	359,375.00	370,156.25	381,260.94	392,698.77	404,479.73	416,614.12	429,112.54	441,985.92	455,245.50	468,902.86	482,969.95	
Total Cost	\$1,209,873.00	\$1,258,782.53\$	1,332,075.85\$	1,387,446.41	51,055,668.52 \$	1,096,161.39 \$	1,130,302.14\$	1,162,716.84	\$1,190,649.81 \$	31,233,370.64	\$1,277,185.25	
Technology Replacement H d	\$6.50	\$ 12.50\$	24.00\$	66.00	75.00 \$	77.63 \$	80.34 \$	83.15	\$ 86.06	\$ 89.08 \$	92.19	

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Running Balance

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Fee per Head											
Banner Share per Student Credit Hour (SCH)	\$0.54	\$1.04	\$1.00	\$1.50	\$2.00	\$2.07	\$2.14	\$2.22	\$2.30	\$2.38	\$2.46
Infrastructure Share per SCH	\$ -	\$ -	\$0.50	\$1.00	\$1.00	\$1.04	\$1.07	\$1.11	\$1.15	\$1.19	\$1.23
Network Share per SCH	\$ -	\$ -	\$0.50	\$1.00	\$1.00	\$1.04	\$1.07	\$1.11	\$1.15	\$1.19	\$1.23
Campus Computer and Printer Share per SCH	\$ -	\$ -	\$ -	\$2.00	\$2.25	\$2.33	\$2.41	\$2.49	\$2.58	\$2.67	\$2.77
Banner + Infrastructure + Network + Computers Fee per SCH	\$ 0.54	\$1.04	\$2.00	\$5.50	\$6.25	\$6.47	\$6.70	\$6.93	\$7.17	\$7.42	\$7.68
Current Estimated Network Services Fee Income	\$560,717.80	\$560,717.80	\$560,717.80	\$280,358.90							
Campus funded	\$352,710.00	\$362,070.00	\$374,859.90	\$384,843.95	\$395,155.75	\$405,806.27	\$416,806.83	\$430,374.17	\$444,425.65	\$458,979.32	\$474,053.95
Annual Balance	\$(241,342.53)	\$(230,028.06)	\$(193,042.15)	\$(162,739.56)	\$(24,712.77)	\$(32,302.12)	\$(32,410.45)	\$27,419.85)	\$(16,629.04)	\$(19,260.36)	\$(21,570.76)

\$858,657.47 \$628,629.40 \$435,587.25 \$272,847.70 \$248,134.93 \$215,832.81 \$183,422.36 \$156,002.51 \$139,373.48 \$120,113.12

\$98,542.36

MSU-Billings Assumptions

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The Network Services Fee would lapse at the end of the 8 years.

- -- The new fee created several years ago, whose current name is Technology Replacement Fee, will be increased to the required level.
- -- We assume a per Student Credit Hour (SCH) fee.
- -- Assumed SCH for computations are 115600, last year.
- -- Due to the flat spot and other accounting actions we assume a 12% discount rate of the fee billed versus collected.
- -- After 2007 a 3.5% rate of fee increase is assumed.
- -- We have included in the spreadsheet our IT cost of infrastructure; I have also included the commitment the University has made to a portion of that cost.

This gives the students an overall view of our total IT infrastructure cost.

I have a student version and an MSU version of this spreadsheet. The student version went through several different scenarios which where eventually dropped.

Information Technology Fee for Montana State University-Northern Page 13 MSU-Northern Documents 13 Summary Page 14 Assumptions 15

	Montana :	State Uni	versity -	Northern						Page 14
Central Banner Administrative Cost Plan										
	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
EXPENSES										
Central Banner Bandwidth Fees & Operations Costs	\$13,162	\$13,162	\$13,162	\$13,162	\$13,162	\$13,162	\$13,162	\$13,162	\$13,162	\$13,162
Central Banner Equipment Debt Service (Seriees F)	21,193	21,233	21,222	0						
Central Banner Campus Debt Service (Series F 1998)	83,146	80,015	81,720	0						
Central Banner Iniatives -New	26,145	46,004	59,105	67,402	73,333	76,133	76,838	75,148	79,398	83,637
Central Banner Operations Costs - MTL's	21,874	22,749	23,659	24,605	25,589	26,613	27,678	28,785	29,936	31,134
Total Central Banner Costs	165,520	183,163	198,868	105,169	112,084	115,908	117,678	117,095	122,496	127,933
REVENUES:										
Network Fee - Per Semester	\$36	\$36	\$36	\$40	\$40	\$40	\$40	\$40	\$40	\$40
Fee Revenue Generated (Using FY03 FTE)	111,492	111,492	111,492	123,880	123,880	123,880	123,880	123,880	123,880	
Campus Funding	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Total Funding	\$131,492	\$131,492	\$131,492	\$143,880	\$143,880	\$143,880	\$143,880	\$143,880	\$143,880	\$143,880
Balance	-\$34,028	-\$85,699	-\$153,075	-\$114,364	-\$82,569	-\$54,597	-\$28,394	-\$1,609	\$19,775	\$35,722

Assumptions used for MSU-Northern

The Network Fee is identified and used only for the payment of central Banner costs

Central costs annual inflation factor is 4%

MSU - Northern will address campus infrastructure and life cycle needs in a separate fee proposal

Information Technology Fee for Montana State University College of Technology - Page 16

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Montana State University - Great Falls College of Technology												
IT FEE ANALYSIS												
	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13		
EXPENSES												
Crystal Reports - 3 users upgrade				\$625.12	\$656.38	\$689.19	\$723.65	\$759.84	\$797.83	\$837.72		
1/2 of networking costs				·			·	·	·	·		
Network circuit costs				8,573.00	8,573.00	8,573.00	8,573.00	8,573.00	8,573.00	8,573.00		
Network equipment maintenance				4,578.50	4,578.50	4,578.50	4,578.50	4,578.50	4,578.50	4,578.50		
Network Core charges				2,644.50	2,644.50	2,644.50	2,644.50	2,644.50	2,644.50	2,644.50		
Network Admin charges				4,938.00	4,938.00		4,938.00	4,938.00	4,938.00	4,938.00		
LAN Costs				4,220.00	4,220.00		4,220.00	4,220.00	4,220.00	4,220.00		
Forms server - upgrade every 5 years				3,000.00	•	,	·	•	3,000.00	,		
Eleven printers upgrade every five years				4,400.00	4,532.00	4,667.96	4,808.00	4,952.24	5,100.81	5,253.83		
88 computers-upgrade every three years				30,800.00	31,724.00	32,675.72	33,655.99	34,665.67	35,705.64	36,776.81		
faculty and Bannuer user replacements				,	·	,	·	·	·	,		
Banner Bond payment	\$33,597.50	\$37,240.00	\$35,752.50									
MSU GF COT Multi-Campus Share 2.56%	11,008.49	19,370.08	24,886.46	28,379.59	30,877.25	32,056.21	32,352.91	31,641.36	33,430.78	35,215.59		
	44,605.99	56,610.08	60,638.96	92,158.71	92,743.62	95,043.08	96,494.56	96,973.11	102,989.06	103,037.95		
REVENUES: (currently \$2.50/cr or \$30.04/F	 ΓΕ)											
IT Network Fee, @1000 FTE	72,185.10	72,185.10	72,185.10	72,185.10	72,185.10	72,185.10	72,185.10	72,185.10	72,185.10	72,185.10		
Balance	27,579.11	15,575.02	11,546.14	(19,973.61)	(20,558.52)	(22,857.98)	(24,309.46)	(24,788.01)	(30,803.96)			
Increasing fee to \$3/Credit FY 07												
3				100,678.65		100,678.65			100,678.65			
	\$27,579.11	\$15,575.02	\$11,546.14	\$8,519.93	\$7,935.02	\$5,635.57	\$4,184.09	\$3,705.54	(\$2,310.41)	(\$2,359.30)		
Semester Fee Equivalent				\$36.00								

Assumptions used for MSU-GF COT IT Life-Cycle Funding Plan

Information Technology Life Cycle funding plan for period of ten years FY 04 thru FY 13. This plan Replacement Cycle: Desktop Computer - 3 years; Network Servers - 5 years; Printers - 5 years Hardware components included: Personal Desktop Computers for Faculty and staff; Printers for Covering half the cost of networking because estimate banner uses that portion; however without a Computer and Printer inflaction factor 3%

	Quantity	Cost New	Total	Divided by	Annual	Costs
Desktop Computer	88	1050	92400	3	30800	
Server	1	3000	3000	1	3000	
Printers	11	2000	22000	5	4400	
LAN Components						
3548 Switches	4	3500	14000	5	2800	
3524 Switches	2	1600	3200	5	640	
4006 Layer 3 Switch	1	25000	25000	5	5000	8440

Information Technology Fee for Montana State University Multi Campus Plan

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Montana State Un	iversity IT	Infrastruc	ture Rep	lacement	Program-N	lulti-Camp	us Plan			Page 20
	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13
	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Multi-Campus Shared Systems Expenditures										
On-Going Replacements & Commitments										
Oracle & Backup Debt Retirement-Existing	\$78,074	\$80,081	\$82,157							
Banner Equipment Repl Debt Retirement-Page 4	0	177,872	200,233	\$214,047	\$238,838	\$288,445	\$328,998	\$352,450	\$378,303	\$401,537
Banner Software License Maintenance-Page 4	351,945	382,438	401,560	421,638	442,719	464,855	488,098	512,503	538,128	565,035
Total On-Going Replacements	430,019	640,391	683,949	635,685	681,557	753,301	817,096	864,953	916,432	966,572
Potential Enhancements										
New Initiatives Debt Retirement-Page 5	0	79,176	186,745	319,733	360,686	323,474	258,904	169,982	174,159	178,446
Banner Initiatives Maintenance Renewal-Page 5	0	37,077	101,432	153,160	163,899	175,421	187,786	201,056	215,300	230,591
Total Potential Enhancements	0	116,253	288,177	472,894	524,585	498,895	446,690	371,038	389,459	409,037
Total Multi-Campus Shared Systems Cost	\$430,019	\$756,644	\$972,127	\$1,108,578	\$1,206,142	\$1,252,195	\$1,263,786	\$1,235,991	\$1,305,891	\$1,375,609
MSU-Bozeman Share - 77.33%	332,534	585,113	751,746	857,264	932,710	968,323	977,286	955,792	1,009,845	1,063,758
MSU-Billings Share - 14.03%	60,332	106,157	136,389	155,534	169,222	175,683	177,309	173,409	183,216	192,998
MSU-Northern Share - 6.08%	26,145	46,004	59,105	67,402	73,333	76,133	76,838	75,148	79,398	83,637
MSU College of Technology-GF - 2.56%	11,008	19,370	24,886	28,380	30,877	32,056	32,353	31,641	33,431	35,216

Montana State Univ	ersity IT	Infrastru	cture Re	olaceme	nt Progra	ım - Bann	er Equip	ment Re	placeme	nt		Page 2
	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	
	Actual	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	
Oracle/Backup Upgrade Debt Service	\$77,008	\$78,074	\$80,081	\$82,157								Funding from Tom Gibson to pay this debt
Equipment Replacement Schedule												Includes 4 Yrs prepaid warranty
Atlas Cluster Web Server-Production				18,323				\$20,194				warranty
Cartman Cluster Web Server-Development	13,528			,	\$16,783			\$ _0,	\$18,496			
Titan Replacement - Tethys - ES45	61,112				69,225				76,292			
Compaq Alpha ES40	55,310											Becomes Banner Backu after Saturn upgrade
Banner Storage System (SAN) - EVA		250,000				\$275,523				\$303,651		Includes tapes and
Banner Tape Backup		44,086				48,587				53,547		Legato license Enterprise level - ie W-2
HP Printer 8100		7,200				7,935				8,745		forms
Saturn Cluster - Janus & Calypso - ES 47's		350,000				385,732				425,112		Oracle Licenses-4 processors - we already have
Forms/Web Servers						,				,		No replacement assuming INF funded
ACOM Check Printers - Bozeman			29,845				\$32,892					Purchased in 1998
ACOM Check Printers - Blgns, No, GF			35,441				39,059				43,047	Purchased in 1998 No replacement
Citrix Server - IBM Hyperion												assuming INF funded
EPOS IVR												IVR ends 6/30/03
Digital HA3000 UPS-3 Phase Servers			F 774	32,269			0.000		36,438		7.040	Change to Powerware
Mariner Admin Systems Server SAIS Production - Dione	2,589		5,774		4,727		6,363		5,209		7,013	
Pandora - Web based files and reports	2,369		10,745		4,121		11,842		3,209		13 051	Purchased 7/20/01
			10,743				11,042				13,031	Purchased in FY 04 as
Internet Native Forms replacement						115,444				127,230		Banner Initiative Purchased in FY 05 as
Web-Enabled Reporting replacement							48,492				53,443	Banner Initiative Purchased in FY 05 as
Banner 7 Message Arch Server - Test & Dev	/I Repl						22,042				24,292	Banner Initiative Purchased in FY 05 as
Banner 7 Message Arch Server - Production	Repl						66,125				72,876	Banner Initiative Purchased in FY 06 as
Business Continuity Replacement								259,747				Banner Initiative Installed 1/03; paid in
Powerware UPS - 25%	5,483						6,343					453444; 6 year life Original Cost - \$134,777
Liebert 30 Ton AC - 31%												6/96; 18 yr life
Electrical Generator Connection - 31%	11,459											Installed 3/03; paid in 453444; 18 year life cycl
Total Equipment Replacement	\$149,481	\$651,286	\$81,805	\$50,592	\$90,734	\$833,220	\$233,159	\$279,941	\$136,435	\$918,285	\$249,972	400444, To year life cycl
Amortization Schedule		CE4 E00										
Loan Proceeds #1 Amortization #1		651,500	177,872	177,872	177,872	177,872						4 Year Loans @ 4%
Loan Proceeds #2			81,900	111,012	111,012	111,012						
Amortization #2			- ,	22,360	22,360	22,360	22,360					
Loan Proceeds #3				50,600								
Amortization #3					13,815	13,815	13,815	13,815				
Loan Proceeds #4					90,800	24 700	24 700	24 700	24.790		-	
Amortization #4 Loan Proceeds #5						24,790 833,200	24,790	24,790	24,790			
Amortization #5						000,200	227,480	227,480	227,480	227,480		
Loan Proceeds #6							233,200					\$6,400 is 6 yr loan; balance is 4 yr loan
Amortization #6							233,200	62,913	62,913	62,913	62,913	,
Loan Proceeds #7								280,000	52,510	32,310	32,010	
Amortization #7									37,267	37,267	37,267	
Loan Proceeds #8									136,500			
Amortization #8								-		50,644	50,644	
Loan Proceeds #9 Amortization #9										918,300	250,714	
Loan Proceeds #10						 					250,714	

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Montana State University IT Infrastructure Program - Multi Campus Assumptions

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Multi-Campus Equipment/Software & MSU-Bozeman Equipment/Software

- * Project replacement and potential enhancement costs for 10 Years FY 04 through FY 13
- * The plan will be updated each year and extended an additional year; zero-base the plan every 5 years
- * Replacement Cycle Servers/Printers-4 Yr, UPS-6 Yr, Network Eq-7 Yr, Bldg Wiring-12 Yr, Fiber Backbone, AC, Generator Connection, Halon Repl-18 Yr
- * Purchases of equipment will be financed over the lifecycle
- * Assume a borrowing interest rate of 4%
- * Calculate Consumer Price Index for inflation factor for categories of equipment; use the national CPI floating 10 year average; 2.46% for CY 93 to 02
- * Calculate Software License Maintenance Renewals at 5% and 8% for SCT, 5% for Windows, Oracle, Legato
- * Calculate SCT Software License Agreement upgrade to 7x24 15%; renegotiate contract at 12/31/04 10%
- * Interest income on fund balance assume rate of 2%
- * Student enrollment use FY 03 level; MSU-Bozeman 10,670
- * Use FY 02 Actual Expenditures for calculating campus shares
- * Use FY 02 Actual Network Fee Income \$632,839 per FY 02 FTE Student Enrollment 10,444 to calculate the yield per FTE=\$60.60 per Student FTE (2.424)
- * Banner Debt Service will be paid in full 11/15/05; Student Fee income for IT Infrastructure is not available until FY 07
- * Include purchase of extended warranty for the lifecycle of equipment purchased as equipment cost
- * Include mandatory software purchased with equipment as equipment cost, i.e. Oracle licenses
- * Add a category for renewal of software purchased with equipment in the IT Infrastructure Program; i.e. SCT License agreement, Oracle License
- * This program does not include desktop equipment, departmental servers, Smart Podium equipment, Student Lab equipment, nor Telephone System
- * No personnel costs will be included