



01 Jan 2005

Faculty Senate Minutes 2004 - 2005

Missouri University of Science and Technology Faculty Senate

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3761

18-18/1010

5/9/2005

PAY TO THE
ORDER OF

American Association for Affirmative *Action*

\$ **605.00

Six Hundred Five and 00/100*****

DOLLARS

American Association for Affirmative *Action*
2005 AAAA Annual Conference
University of Missouri - St. Louis
One University Blvd.
St. Louis, MO 63121-4499

MEMO



AUTHORIZED SIGNATURE

⑈00376⑈ ⑆⑆0⑆000⑆8⑆7⑆⑆ 5⑆⑆2008287⑈

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F4061010
SERIAL TO THIS NUMBER

DRAWN BY

DANIEL W. HYNES

COMPTROLLER 70-2186
711

ON THE TREASURER OF THE STATE OF ILLINOIS

PAY THIS AMOUNT:

*Seven Hundred Thirty******00/100

\$*****730.00

VOID AFTER TWELVE MONTHS

DATE ISSUED 05-11-2005

TO THE ORDER OF:

AMERICAN ASSOCIATION FOR

AF4061010

1 UNIVERSITY BLVD
SAINT LOUIS MO 63121-4400



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Judy Baar Topinka
Judy Baar Topinka, Treasurer, State of Illinois

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FACULTY SENATE

Volume XXXV, Number 7

Minutes of the Academic Council Meeting

June 16, 2005

XXXV, Number 7. The meeting was called to order at 1:30 p.m. by President Michael Hilgers. Roll call was taken, and absentees noted were: Anne Maglia, Bob Aronston substituting; Charles Chusuei, Maggie Chen, Trent Watts, Michael Meagher, Martin Bohner, Leon Hall substituting; Gerald Cohen, Mark Mullin, Barbara Hale, Shari Dunn-Norman, David Van Aken, Paul Worsley, Gary Mueller, Robert Stone, Neil Book, Roger LaBoube, Tom Petry, Levent Acar, Don Myers, Hal Nystrom, S. N. Balakrishnan, H. S. Tsai, Richard Hall, Paula Lutz, Mariesa Crow, with Larry Gragg substituting; Arlan Dekock, and Debra Robinson with Carl Burns substituting.

There was a motion and second to approve the minutes of the April 21, 2005 Academic Council meeting. The Academic Council body voted to accept the minutes.

1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - Michael Hilgers

- a. IFC Vice-President of Academic Affairs Steve Lempkeule has been appointed as the interim-chancellor at the University of Missouri-Kansas City which they conduct their chancellor search. IFC worked on modifying its charge by clarifying some of the roles we provide and how we appoint officers. I was elected chair for this next year, and Professor Kosbar was elected secretary as it's UMR's turn to lead the IFC.
- b. At the last meeting we discussed Executive Order 6a on joint appointments. We want to be sure that the collective rules and regulations reflect our understanding of the role of the non-primary joint departments sharing during the promotion and tenure process.
- c. UM Systems IT in general was discussed. President Floyd announced that the campus CIO was appointed associate vice president of the system. No money, just a title change. Purpose of this was to look for ways to be more efficient. We have 7 help desks across the system and we need to look to see if there are some ways that we can pull together in order to consolidate and to utilize our resources a little more effectively in this time of budget crises. We have been carrying on a conversation about trying to regularize that non-regular faculty title across the system. We've formed a sub-committee and I am the UMR representative and we have been hammering away on this emotional and challenging issue. I suspect it will be one of the big topics carried forward into this next year.
- d. A privacy policy is being discussed with regard to electronic information with initial drafts of guidelines that has been discussed with general counsel and its implications the Patrotic Act.
- e. IFC Retreat is August 4 and 5, and that is where we map out the agenda for next year.
- f. UMR level - April and May were busy with strategic plan and I shared with groups and received quality advice, which I will incorporate into the plan.
- g. AC and other key officers are planning a retreat this summer where we will get together and discuss our goals and action items we might tackle in this next year.
- h. University of Missouri-Kansas City is having political problems. This is disturbing because a group of local businessmen have formed a blue-ribbon task force who are trying to pressure the success of Kansas City from the UM system at the same time they are asking for the removal of President Floyd and disbanding the Board of Curators. I will forward this e-mail so you can be

aware of what is going on.

- i. It has been an honor and privilege to serve as Academic Council President and represent you throughout the system.

B. CHANCELLOR'S REPORT - GARY THOMAS

- a. We are now at 9.7 million dollars in private gifts and pledges toward the Mechanical Engineering Building. We had a plan to raise 11 million privately, and the remaining 10 million of the estimated cost of the building would be bonded. We are still 1.3 million dollars short of the 11 million in the minni-campaign to get that built. This is the largest year in private giving in the history of this institution. We are going to be around 18-20 million dollars, with it being around 19 million which is 2 million dollars more at the peak of our last capital campaign.
- b. Curator's Meeting (which was 10 days ago). I thought it was a strange meeting. The Curator's asked that we cut expenses, especially the cost of administration. And, to come up with a plan to cut the cost of administration by 3%/year for 3 years. Cost of administration at UMR is about 20 million in four areas: Enrollment Management, Student Affairs, Administration, and Avancement is about 50% of that 20 million dollars. In Student Affairs, half of that is in Athletics
- c. Will have the 1st. Residential college ready to be open for fall, and the building is almost full with the exception of about 3-4 beds.

PROVOST'S REPORT - Y. T. Shah

- a. Recap of the handout sent. Enrollment is looking good and looking up. Research is up and will know by how much at the end of the month. Submission is obviously up. Happy to report the 1st. time graduation is one of the highest we have had at 64-65%, which is terrific news. This helps the image and enrollment of the university.
- b. Computer Replacement - I have asked that Randy to make a report what IT did and what the satisfaction and policy is. Basically, it is 1 desktop/1 faculty every 2 years, which should satisfy the needs of the faculty. But, Randy will talk about that later.
- c. We are moving forward with creating the budget model for our performances. Working our way through and as we get some things, I would like to see it all become open and have the entire campus input into how we are affecting the performance of the various departments on campus.
- d. I have two committee reports. Have a passport from of electronic library which was extremely well done. I have accepted the recommendations, and we will move forward with that.
- e. Program liability submitted a report as well. They are economics undergraduate and environmental engineering undergraduate. The recommendation is that we need to give them a help and support. I accepted the report for both of these for the fall.
- f. Lastly, I would like to thank Mike for a job well done, and I have enjoyed working with him, and I propose a round of applause for him.

2 REPORTS OF STANDING AND SPECIAL COMMITTEES

I have a request that Public Occasions go first. If there are no objections, I'd like to move forward.

- a. Public Occasions - R. Kohser. Earlier this year Academic Council approved two calendars for Public Occasions for 05-06, and an Academic year calendar for 06-07. There are a couple of events that require modification for these. The first sheet for public occasions dates for 05-06. With the acquisition of a home football game on October 15, Family Day was moved to that day

and when we put the original calendar together, Spring Open House 2 was just translated from the previous year, we didn't pickup a good friday actually with 2-3 weeks later this coming year and they wanted to place it on Good Friday so we've amended that date. So, there are two changes on the top basically for appropriate scheduling. U-Wide has approved a common calendar for all 4 campuses and that has necessitated significant changes in this 06-07. Spring semester - look at the resolution that I have appended on the back, it says Spring Semester will begin on the Monday before Martin Luther Kind Day for UM-Rolla. That is true about 5 years out of every 6 years. In 06-07, Martin Luther King Day occurred early in the month, and we originally opted to start afterward. We have since decided we can live with the earlier start date so we've moved everything up from that previous schedule one week earlier. You notice we are graduating early in May on the 12th, but since the fall semester ends early, the early start of Spring Semester seemed appropriate and we concurred with the common calendar. Back to Fall Semester -- there was a mandate set that all 4 campuses will have an entire week long Thanksgiving break. UMR has traditionally gone with a 3 day Thanksgiving break and a student council free day that puts a 3 day weekend in that long September, October, early November time period. By going to the week long Thanksgiving break which appears in the proposed schedule it appears that we will be foregoing that Student Council free day unless we jump through all of the hoops of an appeal that will go through Academic Council, Chancellor, President, and Board of Curators. That is still open because our public occasions dates are set a year later than the academic calendar, so we could initiate that appeal if we so choose. But, I think right now what I am asking for is approval of the calendars that are in compliance. Academic Council voted by voice and approved.

- b. Budgetary Affairs - Robert Schwartz. To update you on the survey that was conducted recently, we are specifically looking at the budget shortfall issue. I will give you a little bit of background information on the survey. Again, we were focussing on looking on which model should be used for the shortfall. Faculty was presented with a variety of questions that they could respond to whether they strongly supported or opposed. The data I will show you today I will be presenting at both of the campuses as well as to the individual school levels, and in particular I will highlight the top five priorities for reduction in the opinion of the faculty. I want to summarize the restuls in terms of the model favored, our priorities, and school priorities. Bob gave a summary about the survey. We had 113 faculty members responding to the survey, which is a reasonable number, which is about 35%. There were two models proposed with model A with a flat 3.372% cut for each unit including both academic and administrative. Model B was the model suggested by Provost Shaw after discussions with various constituentcies on campus. The results came back as 51% of the respondents favored model A, which was the flat 3.372@ cut with 36% favored model B and 12% not indicating a preference. All this data will be posted on the Academic Council web sit for people to take a look at in further detail. Consensus is to considate and streamline administration. The Committee recommendation is that Academic Council accept the report and it be forwarded to the Chancellor and Provost. Discussion and questions were taken. There was a voice vote taken and passed.
- c. Curricula - Motions were distributed electronically, so unless I hear any objections, I'll consider them moved and seconded. Report was read and all were voted on and seconded.
- d. ITTC - Frank Blum. This is a continuing referral, and the committee is still working on the referral items.
- e. Library and Learning Resources

3 Old Business

- a. Revocation of RSO Status - Postponed
- b. Formula for Faculty Computer Replacement. Replacing 300 PC's/year. Information on web is updated frequently, and you can check there. Basically, the formula is 1 PC per 1 full time position every 3 years.

Mike Hilgers adjourned the meeting at 3:00 p.m.

Respectfully submitted,
(electronically submitted, 09/26/2005)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.

UMR

ACADEMIC COUNCIL REPORT

**Y. T. SHAH
PROVOST AND
EXECUTIVE VICE CHANCELLOR**

June 16, 2005

UNIVERSITY

ENROLLMENT MANAGEMENT



Priority Registration Report
Summer Semester 2005
May 26, 2005

	SS 2004	SS 2005	
On-Campus:			
Prior to First Day	33	16	
4/4/2005	108	71	
4/5/2005	37	49	
4/6/2005	76	68	
4/7/2005	104	120	
4/8/2005	185	116	
4/9/2005	10	5	
4/10/2005	5	5	
4/11/2005	96	107	
4/12/2005	44	52	
4/13/2005	36	21	
4/14/2005	28	19	
4/15/2005	11	27	
5/4/2005	132	254	
5/13/2005	115	135	
5/20/2005	54	87	
5/26/2005	64	51	
<i>Total:</i>	1,138	1,203	5.7%
Off-Campus:			
Extended Learning	135	166	23.0%
<i>Total:</i>	1,273	1,369	7.5%



Priority Registration Report
Fall Semester 2005
May 26, 2005

	FS 2004	FS 2005	
Prior to First Day	404 ¹	252 ²	
4/4/2005	120	88	
4/5/2005	45	82	
4/6/2005	306	286	
4/7/2005	687	573	
4/8/2005	628	569	
4/9/2005	39	28	
4/10/2005	30	25	
4/11/2005	487	443	
4/12/2005	303	467	
4/13/2005	121	144	
4/14/2005	33	73	
4/15/2005	50	188 ³	
4/25/2005	188 ³	335 ³	
5/4/2005	221 ³	244 ³	
5/13/2005	59	109	
5/20/2005	11	43	
5/26/2005	22	13	
<i>Total:</i>	<u>3,754</u>	<u>3,962</u>	5.5%
Off-Campus:			
Extended Learning	<u>136</u>	<u>204</u>	50.0%
<i>Total:</i>	<u>3,890</u>	<u>4,166</u>	7.1%



**Number of Students Registering at Each Level
On Campus Students Only**

	FR	SO	JR	SR	MS	PhD	TOTAL
5/13/2005 Fall 2005	1251	777	791	812	176	99	3,906
5/17/2004 Fall 2004	1237	723	675	800	159	127	3,721
5/26/2005 Fall 2005	830	837	827	1170	191	107	3,962
5/28/2004 Fall 2004	828	803	696	1126	170	131	3,754



Preview, Registration and Orientation

PRO 2005

27-May-05

Major	Number of Student Participants By Session and Academic Major 2005 Spring/Summer																			
	19-Feb		11-Mar		15-Apr		23-Apr		30-Apr		3-Jun		8-Jun		10-Jun		13-Aug		Total	
	Student	Guest	Student	Guest	Student	Guest	Student	Guest	Student	Guest	Student	Guest	Student	Guest	Student	Guest	Student	Guest	Student	Guest
A&S Und	2	4			1	2	1	1	2	3	1	1							7	11
Bio Sci			4	5	3	4	5	7	3	5	5	5			2	3	1	1	23	30
Business	1	1	2	2			1	3	2	1	1				1	1	1		10	9
Chemistry	4	9	2	3	3	3	3	4	5	6	4	8	1	1					22	34
Comp Sci	11	21	5	5	4	6	8	11	14	20	8	12	3	4	4	7	1	1	58	87
Economics					1	1													1	1
Engineering	108	175	99	153	110	170	105	175	100	154	99	152	30	40	32	48	15	23	705	1096
English	1	1	1	2															2	3
Geology/Geo	1	2			2	3			1	2									4	7
History					1	1	1	2			1	2							4	6
IST			1	2	3	4	1	2	1		1	1							7	9
Mathematics	1	2			2	4					2	3							5	9
Physics	6	11	2	3	1	2	2	5	1		3	4			1	2			17	30
Philosophy																				
Psychology			1	1			1												2	1
Total Participants	135	226	117	176	131	200	128	210	129	191	127	187	36	47	44	64	20	30	867	1331



2005 Preview, Registration, and Orientation UPDATE May 27, 2005

2003	Total #		2004	Total #		2005	Total #	
	Students	Invitations		Students	Invitations		Students	Invitations
	Registered	Sent		Registered	Sent		Registered	Sent
10-Jan	118	1265	9-Jan	248	1406	7-Jan	235	1364
17-Jan	165	1325	16-Jan	284	1424	14-Jan	281	1437
24-Jan	199	1325	23-Jan	317	1438	21-Jan	319	1485
31-Jan	238	1392	30-Jan	358	1480	28-Jan	355	1501
	Reminder Cards (1149)			Reminder Cards (1123)			Reminder Cards (1123)	
7-Feb	275	1402	6-Feb	395	1480	4-Feb	421	1544
14-Feb	319	1478	13-Feb	445	1549	11-Feb	479	1575
21-Feb	366	1501	20-Feb	460	1549	18-Feb	535	1617
28-Feb	428	1518	27-Feb	505	1569	25-Feb	585	1626
7-Mar	450	1534	5-Mar	550	1586	4-Mar	621	1639
14-Mar	497	1553	12-Mar	580	1600	11-Mar	659	1670
	Reminder Cards (1057)							
21-Mar	530	1560	19-Mar	605	1617	18-Mar	684	1677
28-Mar	568	1567	26-Mar	639	1617	25-Mar	696	1677
				Reminder Cards (922)			Reminder Cards (981)	
4-Apr	626	1587	2-Apr	663	1617	1-Apr	719	1694
11-Apr	659	1602	9-Apr	689	1664	8-Apr	743	1694
18-Apr	710	1608	16-Apr	713	1674	15-Apr	772	1719
25-Apr	734	1618	23-Apr	729	1700	22-Apr	785	1736
2-May	754	1618	30-Apr	749	1700	29-Apr	801	1736
9-May	777	1618	7-May	772	1757	6-May	834	1736
	Reminder Cards (843)			Reminder Cards (582)			Reminder Cards (865)	
16-May	793	1646	14-May	781	1757	13-May	842	1750
23-May	811	1650	21-May	807	1768	20-May	857	1750
30-May	840	1651	28-May	823	1768	27-May	867	1750
6-Jun	855	1662	4-Jun	832	1798	3-Jun		
13-Jun	864	1668	11-Jun	849	1827	10-Jun		
20-Jun	874	1668	18-Jun	849	1847	17-Jun		



UMR - Enrollment Management Services
WEEKLY ENROLLMENT REPORT

			Fall 2000 (ADMs) 5/26/2000	Fall 2001 (PS Conv) 5/26/2001	Fall 2002 (PS) 5/26/2002	Fall 2003 (PS) 5/26/2003	Fall 2004 (PS) 5/26/2004	Fall 2005 (PS) 5/26/2005
FRESHMEN	Prospects	Beg. Fr. Prospects	139181	42816	65149	42344	24103	15773
		HS Jr. Prospects	10454	10704	10296	18646	14840	7064
	Inquiries	Beg. Fr. Inquiries	20493	9071	13469	11082	9928	10675
		HS Jr. Inquiries	3407	933	7666	6628	6246	4780
	Applications		1795	1758	1911	1806	1845	1923
	Pending		152	134	60	63	54	82
	Withdrawn Apps		2	15	24	14	6	1
	Admitted		1570	1550	1720	1666	1699	1764
	Cancelled Admits		647	138	417	155	456	313
	Denied		71	59	107	63	86	76
Enrolled		0	0	432	559	577	636	
TRANSFERS	Inquiries		838	607	634	626	805	723
	Applications		320	358	380	372	342	349
	Pending		66	132	109	74	76	88
	Withdrawn Apps		11	1	0	0	7	3
	Admitted		229	217	262	288	249	250
	Cancelled Admits		16	1	5	4	9	1
	Denied		14	8	9	10	10	8
Enrolled		0	0	111	166	102	144	
GRADUATES	Inquiries		6814	4380	3283	2331	1227	1328
	Applications		1722	2196	3114	2412	1231	1180
	Pending		740	778	947	624	258	160
	Withdrawn Apps		6	6	6	20	7	6
	Admitted		635	1012	1526	1112	602	651
	Cancelled Admits		9	0	0	0	0	0
	Denied		341	400	635	656	364	363
Enrolled		0	0	55	60	32	41	
ORIENTATION	Freshmen	Total Reservations	614	596	781	840	823	867
	Transfer	Total Reservations	N/A	N/A	N/A	68	104	56
HOUSING AGREEMENTS	Upperclassmen		626	639	617	659	687	*769
	Beginning Freshme		490	443	658	712	714	*854
	New Transfers		N/A	N/A	N/A	N/A	0	N/A
	TOTAL		1,116	1,082	1,275	1,371	1,401	*1623
4TH WEEK CENSUS	Beginning Freshme		696	715	815	897	877	0
	New Transfers		195	231	261	281	288	0
	Graduates		348	395	423	348	402	0
	TOTAL		1,239	1,341	1,499	1,526	1,567	0

Unofficial Internal Planning Data - not intended for public release.

ADMs - data from ADMs system

PS Conv - PeopleSoft conversion data

PS - data from PeopleSoft system

*Housing #'s as of 05-20-05

RESEARCH



Proposals Awarded during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	47,985	114,495	0	0	0	0	0	-108,517	0	0	20,500		74,463
Chem.	401,907	7,623	0	701,475	123,555	78,800	80,000	18,557	29,935	329,000	171,674		1,942,526
Comp. Sci.	98,791	571,009	12,000	0	179,968	0	0	0	0	6,000	683,553		1,551,320
Engr. & Tech. Comm.	0	0	0	0	0	0	0	0	0	0	0		0
Hist./PS	5,000	0	2,224	0	0	0	0	0	0	0	0		7,224
Math/Stat	21,317	0	0	51,653	29,630	0	0	0	42,771	0	15,533		160,904
Phil.	0	0	0	0	0	0	0	0	26,732	0	0		26,732
Phys.	122,612	7,000	93,264	35,000	28,000	0	90,000	0	283,090	93,500	85,000		837,466
Psych.	64,787			0	0	0	0	0	0	0	60,692		125,479
A&S Totals:	762,398	700,127	107,488	788,128	361,153	78,800	170,000	-89,960	382,527	428,500	1,036,952	0	4,726,113
Materials Sci. & Eng.	238,527	327,132	72,486	268,855	282,545	536,868	246,835	188,855	668,750	635,446	212,430		3,678,728
Mining & Nuclear Eng.	144,931	1,151,344	149,396	29,916	238,000	15,486	3,225	58,999	39,913	107,931	667,640		2,606,781
Geol. Sci. & Engr.	0	281,170	10,000	135,000	85,638	79,640	0	136,985	9,500	13,508	54,300		805,741
Dean's Office	28,750	61,164	0	0	0	0	0	0	0	0	0		89,914
SoMEER	412,208	1,820,809	231,882	433,771	606,183	631,994	250,060	384,839	718,163	756,885	934,370	0	7,181,164
Basic Engr.	0	0	2,112	0	12,065	0	0	0	0	12,000	302,042		328,219
Chem & Biol. Engr.	0	0	40,000	0	0	0	0	0	60,000	0	11,500		111,500
Civil, Arch. & Env. Engr.	858,419	200,605	70,112	153,745	305,075	173,935	191,250	525,676	0	92,924	517,515		3,089,256
ECE	1,837,273	300,302	58,398	423,251	124,620	211,402	77,597	64,982	46,989	262,219	254,078		3,661,111
Engr. Mgt.	97,181	279,394	45,000	0	109,458	150,780	0	116,846	10,968	1,200	10,600		821,426
MAEM	104,006	657,993	458,541	678,475	52,933	12,000	9,000	277,001	91,891	190,000	342,908		2,874,746
SOE Totals	2,896,879	1,438,293	674,163	1,255,471	604,151	548,117	277,847	984,505	209,848	558,343	1,438,643	0	10,896,259
Econ. & Finance	10,000	0	1,779	0	0	0	0	0	0	0	0		11,779
Business Admin.	1,254,998	0	60,000	58,470	116,700	54,350	0	0	0	0	60,692		1,605,210
Info Sci. & Tech.	42,100	163,697	0	0	0	0	0	0	0	0	199,068		404,864
SMIS	1,307,098	163,697	61,779	58,470	116,700	54,350	0	0	0	0	259,760	0	2,021,854
Enrollment Mgt													0
International Affairs													0
Minority Affairs													0
Other		10,723				10,000							20,723
RPDC	271,989					54,592		27,000		336,374	17,650		707,605
KUMR		64,116				60,278							124,394
Grand Totals:	5,650,572	4,197,764	1,075,313	2,535,840	1,688,186	1,438,131	697,907	1,306,384	1,310,538	2,080,102	3,687,375	0	25,668,112

+0.8%% compared to FY 04: \$25.5 M

Total: \$25.7 M





Proposals Submitted during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	2,019,716	307,295	349,735	53,032	844,748	214,453		200,626	35,231	124,822	102,500		4,252,158
Chem.	1,049,738	922,433	1,915,513	666,475	578,814	113,000	1,122,083	483,377	363,874	1,713,281	1,239,113		10,167,701
Comp. Sci.	1,229,161	1,505,721	0	0	1,058,224	899,334	1,123,479	915,180	477,296	660,603	808,333		8,677,331
Engr. & Tech. Comm.	0	8,210	0	0	0	0	132,478	0	0	0	0		140,688
Hist./PS	0	0	2,224	0	0	0	0	0	0	0	0		2,224
Math/Stat	0	0	0	400,636	1,410,072	0	0	0	42,771	28,000	28,000		1,909,479
Phil.	0	0	0	0	0	0	0	0	26,732	0	0		26,732
Phys.	1,071,015	81,178	820,309	417,423	0	105,010	268,051	319,661	230,246	80,000	246,835		3,639,727
Psych.	0	0	0	0	93,750	0	249,444	0	308,290	334,426	0		985,910
Dean's Office	0	246,983	0	0	0	0	0	0	0	0	0		0
A&S Totals:	5,369,630	3,071,819	3,087,781	1,537,566	3,985,608	1,331,797	2,895,535	1,918,844	1,484,440	2,941,131	2,424,781	0	30,048,932
Materials Sci. & Eng.	90,272	904,331	2,255,660	2,672,784	6,926,607	1,569,385	1,776,263	446,605	2,783,321	500,805	888,093		20,814,126
Mining & Nuclear Eng.	1,236,959	843,522	296,396	172,902	1,128,010	374,170	757,343	685,673	1,259,333	365,709	314,578		7,434,596
Geol. Sci. & Engr.	1,282,027	5,001	586,286	0	219,010	181,844	130,218	369,030	381,139	2,580,532	298,302		6,033,389
Dean's Office	0	258,647	0	0	0	0	0	0	0	0	0		258,647
SoMEER	2,609,258	2,011,501	3,138,342	2,845,686	8,273,627	2,125,399	2,663,824	1,501,308	4,423,793	3,447,046	1,500,973	0	34,540,758
Basic Engr.	0	595,560	333,240	0	88,485	239,602	177,598	2,000	1,000,000	0	202,780		2,639,264
Chem & Biol. Engr.	573,237	894,984	2,696,250	0	0	125,000	404,762	726,672	444,219	0	939,348		6,804,472
Civil, Arch. & Env. Engr.	1,195,456	1,298,199	593,113	321,627	1,629,036	276,913	731,762	598,676	2,033,328	44,100	1,644,367		10,366,577
ECE	2,180,745	1,451,226	1,135,450	463,079	831,956	3,244,772	2,060,074	1,711,504	1,668,591	696,484	915,098		16,358,981
Engr. Mgt.	800,002	1,341,687	325,597	448,445	679,346	612,204	1,135,723	480,556	1,500	1,200	488,419		6,314,679
MAEM	1,456,523	1,428,456	956,860	1,077,204	1,650,283	1,248,174	1,861,817	1,548,570	1,111,662	71,500	1,429,448		13,840,497
Dean's Office	0	740,948	0	0	0	0	0	0	0	0	0		740,948
SOE Totals	6,205,964	7,751,000	6,049,510	2,310,355	4,879,107	5,746,664	6,371,736	5,067,978	6,259,300	813,264	5,019,460	0	57,065,419
Econ. & Finance	0	12,500	16,841	0	186,250	0	0	0	0	0	0		215,591
Business Admin.	134,732	97,773	0	0	52,000	21,000	0	0	122,663	54,350	0		482,518
Info Sci. & Tech.	86,868	63,000	0	0	0	119,801	132,478	99,991	0	647,013	0		1,149,152
SMIS	221,601	173,273	16,841	0	238,250	140,801	132,478	99,991	0	122,663	701,363	0	1,847,261
Enrollment Mgt													0
UMR Global													0
Grad/UG Studies		308,728											308,728
Other		605					132,478		16,000				149,083
RPDC			148,592					27,000	36,351	15,650	2,000		229,593
KUMR													0
Grand Totals:	14,406,453	13,316,986	12,432,067	6,693,607	17,376,592	9,344,661	12,196,052	8,615,121	12,219,884	7,339,774	10,248,577	0	124,189,774

+4.6% compared to FY 04: \$118.7 M

Total: \$124.2 M

UNIVERSITY OF MISSOURI-ROLLA



Appropriated FY04-05 Federal Plus-Up Proposals

Title	\$M
Advanced Manufacturing Technologies for Metals, Composites & Electronic Materials (Leu)	3.5
Advanced Millimeter Wave Inspection System for the Space Shuttle External Tank Insulation Foam and the Orbiter's Heat Tiles (Zoughi)	0.3
Aerospace Propulsion Particulate Emissions Reduction Program (Whitefield)	2.3
Modernizing the Power Grid (McMillin)	2.0
Blast Resistant Barriers for Homeland Defense (Baird)	2.4
Fuel Preperator Evaluation (Flanigan)	1.3
Total	11.8M

Blue: Already awarded = \$3.3M

Black: Should-be awarded in June = \$8.5M

UNDERGRADUATE AND GRADUATE STUDIES

Academic Alert System

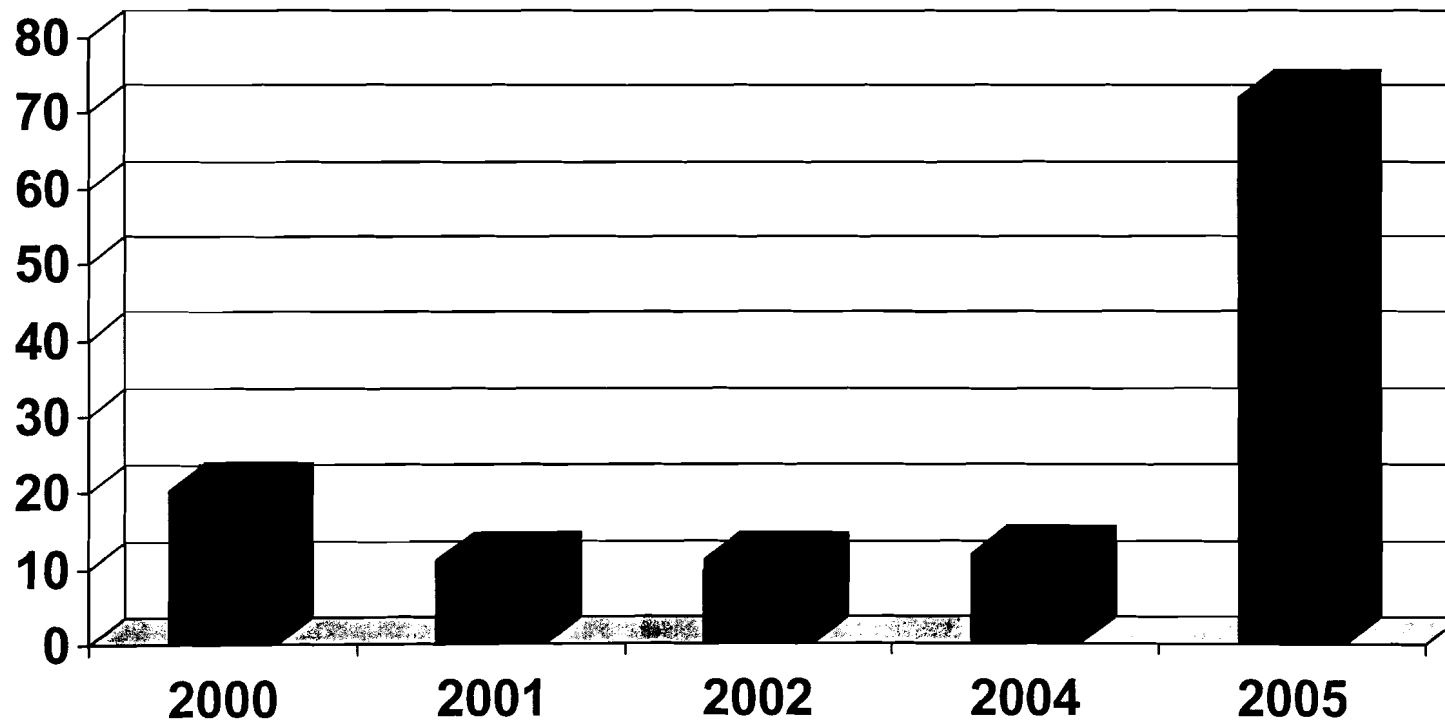
- IT is rebuilding the new application on a reliable and maintainable platform.
- Faculty orientation will begin August 1, 2005.
- The **Academic Alert System** will be available to all faculty for the Fall 2005 semester.

- April 25, 2005-
“Project Centered Learning” Workshop
- Planned for Summer 2005-
“Leadership Development Seminar for
Department Chairs, Deans & Associate
Deans” *presented by Marc T. Frankel, Ph.D.,
Triangle Associates*

Hit The Ground Running (HGR)

- **72** students enrolled for HGR- Summer 2005

HGR Enrollment 2000-2005



Service Learning

- UGS was awarded a \$5,000.00 grant from Missouri Campus Compact to establish a campus-wide **Service Learning Program** at UMR.
- The **Service Learning Program** will:
 1. Enhance student learning
 2. Help UMR develop partnerships within the community
 3. Provide beneficial outcomes to our community partners

Undergraduate Research

- Opportunities for Undergraduate Research Experiences (OURE):

130 applications for 2005/06 OURE projects.

SCHOOL OF EXTENDED LEARNING



School of Extended Learning

- VCC worked with Missouri National Guard to provide live connection to Iraq for the Rolla High School graduation so soldiers could see their relatives graduate. They really appreciated this effort and were honored by the Principal's speech and the standing ovation they received from the crowd.
- Summer Camp programs begin in June and continue through July – enrollments are high in most camps with some sessions already closed.
- June 27th, UMR/KSU/Boeing Engineering Management Program to be kicked off with faculty from King Saud University visiting UMR. The cooperative program will deliver 8-10 five-day programs via video streaming.
- VCC at it's highest level of operating capacity. With tremendous growth of distance education, all 6 distance classrooms will be in operation, 8:00am-9:30pm Mon-Thur and 8:00am-4:30pm Friday. Also has been tremendous growth in remote recordings of campus events and classes.

- Masters in Engineering joint degree program with University of Naples, Italy will begin Fall 2005.
- Engineering Education Center has experienced significant increase in summer enrollment from 32 in 2004 to 44 in 2005. Anticipates continued growth for upcoming fall semester.
- Number of I-20's issued for FS2005 compared to last year is up by 110; more important is that I-20's issued to students admitted are up from 43% to 61% suggesting that with SEVIS, students are sending more complete application packets to the universities to which they apply.

INFORMATION TECHNOLOGY



Information Technology

Applications/Enterprise Reporting

- Prototype of Academic Alert was successfully implemented in the Physics Department over the Spring semester.
 - » Enhanced version has been demoed and is scheduled for campus wide production for the Fall semester.
- To increase the security of personal information for faculty and staff Social Security numbers have been successfully removed from Chemtrack and have been replaced with PeopleSoft Employee Identification numbers.

Networks and Computing

- Voice-Over IP Telephony Project
 - » Over 500 VoIP phones converted
 - » The Rolla Building coming online June 29.
 - » The Residential College coming online July 21.
- SAP Center of Excellence
 - » Serving 15 college and universities
- Long range Ethernet and wireless service provided to Nagogami Terrace
- Additional network hardening has begun.

Solutions Center

- Desktop Enhancement
 - » 884 machines have been inventoried to date for FY2005 – FY2007
 - » 284 machines have been inventoried to date for FY2005
 - » 202 Desktop Enhancement machines have been deployed to date
- Technology Classroom Enhancement Program
 - » 50 seat Technology Classroom under consideration for installation in UC East.
- Kiosk bid underway for several models.
- Recommended computers and options for incoming students.

Academic Council

@ University of Missouri Rolla

About Academic Council Volume VII, 7
Committee Members Minutes of the Academic Council Meeting
 April 21, 2005

Upcoming Meetings VII 7 There was a motion to table approval of February 17,
 2005 minutes due to difficulty in distributing minutes by e-
Meeting Minutes mail. Motion passed on unanimous voice vote.

Bylaws

1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - Michael Hilgers

- a. Discussed non-regular faculty policy, IFC role at UM system level, state appropriations, unified calendar, administration costs per FTE for UM system, freeze on administration hiring and strategic action plan.

B. PROVOST'S REPORT - Y. T. Shah

- a. General Officers Meeting – Budget does not look good for next year, probably 2-2.5% cut over last fiscal year. State funding of scholarships will probably be cut 10%. We are looking for consolidation at system level for administration costs. Spoke about decentralized tuition. Need tuition plan by end of September.

2 REPORTS OF STANDING AND SPECIAL COMMITTEES

- a. RP&A – Report was given by Todd Hubing. Discussed referring student concerns over computer policy to ITCC.
- b. Budgetary Affairs – Report was given by Robert Schwartz. We are at the limit for cost cutting in budget, and will need to reduce rate dollars. Memo should be going to faculty soon asking for comments on budget.
- c. Curricula – Report was given by Charles Chusuei. Motion to approve 5 DC forms, and this was approved by a voice vote.

- d. ITCC – Report was given by Barbara Hale.



Discussed referrals to ITCC. Formed task force for computer learning centers and smart classrooms. Investigating short-term CLC upgrade policy and implement information kiosks.

e. Library Committee – R. DuBroff

f. Student Affairs – Report was given by Nathan Mundis. Recommended approval of three new student organizations, and was approved on a voice vote. Recommended removal of recognition of five inactive organizations. Concern was expressed over the difficulty of re-instituting these student organizations, among other concerns. A motion to table was approved on a voice vote.

g. Public Occasions – No report.

h. Administrative Review Committee – Report was given by Frank Blum. Discussed procedures for distributing results of survey results.

3 Old Business - none.

4 New Business

a. RP&A - Robert Schwartz read the resolution listed below, and it was passed by unanimous voice vote:

Academic Council Resolution - Recognition of Chancellor Thomas

WHEREAS , Chancellor Gary Thomas has led the University of Missouri–Rolla for the past five years with an unwavering commitment to quality and improvement; and

WHEREAS , Chancellor Thomas successfully mobilized the campus to reverse a declining enrollment trend by focusing attention on student recruitment and retention efforts; and ,

WHEREAS , Chancellor Thomas challenged the campus to realize its full potential in research productivity, and in heeding this call the campus has nearly doubled its external funding; and

WHEREAS , Chancellor Thomas has been a champion and vigorous advocate for this campus among state leaders; and

WHEREAS , Chancellor Thomas has successfully promoted a beautification and building program on campus, with the remarkable Havener Center completed, the Residential College nearly completed, and several other projects initiated; and

WHEREAS , the Academic Council deeply appreciates all that Chancellor Thomas has done for the University of Missouri–Rolla,

THEREFORE, BE IT RESOLVED that the University of Missouri–Rolla 's Academic Council gratefully recognizes the contributions to the growth and long-term well-being of the University of Missouri-Rolla led by Chancellor Gary Thomas and thanks him for his tireless dedication to our campus community.

BE IT FURTHER RESOLVED that the Academic Council extends warmest good wishes to Chancellor Gary Thomas with hopes for continued success in all his future endeavors .

PASSED: April 21, 2005

Michael Hilgers, President Academic Council
Robert Schwartz, President-Elect, Academic Council
Todd Hubing, Past President, Academic Council
Kurt Kosbar, Secretary, Academic Council
Frank Blum, Parliamentarian, Academic Council

b. Student Council - Nathan Mundis described new officers, last week of class policy, restructuring of committees and student activity fees.

c. Graduate Students - discussed new officers.

d. Referrals - none.

Mike Hilgers adjourned the meeting at 2:33 p.m.

Respectfully submitted,
(electronically submitted, 06/09/2005)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.

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[Meeting Minutes](#) | [Bylaws](#)

Last updated: by acadcoun@umr.edu
Web Site Design by the UMR Web Group

Volume VI, 6
Minutes of the Academic Council Meeting
April 21 , 2005

Meeting called to order at 1:33 PM by M. Hilgers.

- I. Motion to table approval of Feb 17, 2005 minutes due to difficulty in distributing minutes by e-mail. Motion passed on unanimous voice vote.
 - a. President's Report – M. Hilgers. Discussed non-regular faculty policy, IFC role at UM system level, state appropriations, unified calendar, administration costs per FTE for UM system, freeze on administration hiring and strategic action plan.
 - b. Provot Report – Y. Shah. Discussed general officers meeting. Budget does not look good for next year, probably 2% - 2.5% cut over last FY. State funding of scholarships will probably be cut 10%. Looking for consolidation at system level for administration costs. Spoke about decentralized tuition. Need tuition plan by end of September.
- II. Committee Reports
 - a. Rules, procedures and agenda – T. Hubing. Discussed referring student concerns over computer policy to ITCC
 - b. Budgetary Affairs – R. Schwartz. Are at the limit for cost cutting in budget, will need to reduce rate dollars. Memo should be going to faculty soon asking for comments on budget.
 - c. Curricula – C. Chusuei. Motion to approve 5 DC forms – approved on voice vote. Motion to approve 26 CC forms – approved on voice vote.
 - d. ITCC – B. Hale. Discussed referrals to ITCC. Formed task force for computer learning centers and smart classrooms. Investigating short-term CLC upgrade policy and implementing information kiosks.
 - e. Library Committee – R. DuBroff
 - f. Student Affairs – N. Mundis. Recommended approval of 3 new student organizations. Approved on voice vote. Recommended removal of recognition of 5 inactive organizations. Concern was expressed over the difficulty of re-instituting these student organizations, among other concerns. A motion to table was approved on a voice vote.
 - g. Public Occasions – no report
 - h. Administrative Review Committee – F. Blum. Discussed procedures for distributing results of survey results.
- III. Old Business - None
- IV. New Business
 - a. Resolution from RP&A – R. Schwartz (get wording for R. Schwartz)
Approved on unanimous voice vote
 - b. Student Council – N. Mundis. Described new officers, last week of class policy, restructuring of committees and student activity fees
 - c. Graduate Students. Discussed new officers

ACADEMIC COUNCIL REPORT

**Y. T. SHAH
PROVOST AND
CHIEF EXECUTIVE OFFICER**

April 21, 2005



ENROLLMENT MANAGEMENT



Spring 2005 Admissions Counselor Events and Receptions Schedule

- April 18: St. Louis (Eureka area) Nooter/Ericksen, 6:30-8:30 p.m.
-Tandra Donahue
- April 21: Chicago area (Naperville, IL), 7:00-9:00 p.m. -Catherine Tipton
- April 25: Joplin, MO Joplin High School, 6:00-8:00 p.m. -Jody Davis
- April 26: Springfield, MO at City Utilities, 6:00-8:00 p.m. -Jody Davis
- April 28: Kansas City, MO at Black & Veatch (Overland Park, KS), 6:00-8:00 p.m.
-Courtney Wallace
- May 5: Jefferson City, MO ABB Power, 6:00-8:00 p.m. -Laura Hall
- May 7: St. Louis-Boeing Corporation, 2:00-4:00 p.m. -Tandra Donahue
- May 10: Rolla-Havener Center, 6:30-8:00 p.m. -Catherine Tipton

Admissions Special Events & Visitors

Open House Students

Students	2003-2004	2004-2005
JULY		
AUGUST		
SEPTEMBER		
OCTOBER	56	84
NOVEMBER	90	122
DECEMBER		
JANUARY		
FEBRUARY	73	131
MARCH		168
APRIL	92	
MAY		
JUNE		
Totals	311	505

Open House Students and Guests

Student + Guest	2003-2004	2004-2005
JULY		
AUGUST		
SEPTEMBER		
OCTOBER	146	207
NOVEMBER	206	298
DECEMBER		
JANUARY		
FEBRUARY	193	320
MARCH		405
APRIL	236	
MAY		
JUNE		
Totals	781	1230



Admissions Special Events & Visitors

Group Visits

Miner Day

Campus Visits

#Groups/ #Students	2003-2004		2004-2005	
JULY		0	2	77
AUGUST	1	25		0
SEPTEMBER	1	20	3	25
OCTOBER	2	21	2	45
NOVEMBER	3	80	2	43
DECEMBER	2	28	3	60
JANUARY		0		0
FEBRUARY		0	1	30
MARCH	3	65	4	252
APRIL	5	153	3	147
MAY	2	30		0
JUNE	2	70		0
Totals	21	492	18	679

Students	2003-2004	2004-2005
JULY	36	20
AUGUST	15	19
SEPTEMBER	9	0
OCTOBER	56	60
NOVEMBER	30	25
DECEMBER	0	0
JANUARY	4	0
FEBRUARY	9	0
MARCH	67	55
APRIL	22	
MAY	0	
JUNE	0	
Totals	248	179

Students	2003-2004	2004-2005
JULY	96	132
AUGUST	59	92
SEPTEMBER	43	42
OCTOBER	116	91
NOVEMBER	85	93
DECEMBER	62	62
JANUARY	51	53
FEBRUARY	74	88
MARCH	104	121
APRIL	65	
MAY	29	
JUNE	63	
Totals	847	774



**UMR - Enrollment Management Services
WEEKLY ENROLLMENT REPORT**

			Fall 2000 (ADMs) 4/8/2000	Fall 2001 (PS Conv) 4/8/2001	Fall 2002 (PS) 4/8/2002	Fall 2003 (PS) 4/8/2003	Fall 2004 (PS) 4/8/2004	Fall 2005 (PS) 4/8/2005
FRESHMEN	Prospects	Beg. Fr. Prospects	139181	42816	65149	42345	24104	15776
		HS Jr. Prospects	10454	10704	10296	10889	8182	5551
	Inquiries	Beg. Fr. Inquiries	19786	9071	13316	10893	9701	10505
		HS Jr. Inquiries	1553	799	6479	5605	4989	3599
	Applications		1731	1702	1844	1751	1790	1874
		Pending	156	163	129	81	79	101
		Withdrawn Apps	2	7	14	13	4	0
	Admitted		1507	1475	1639	1604	1642	1712
		Cancelled Admits	117	27	86	35	53	41
		Denied	66	57	62	53	65	61
Enrolled		0	0	0	0	0	0	
TRANSFERS	Inquiries		763	541	557	567	743	636
	Applications		275	265	296	303	267	285
		Pending	96	127	91	63	60	89
		Withdrawn Apps	10	0	0	0	1	0
	Admitted		162	135	199	235	197	193
		Cancelled Admits	7	0	0	0	1	0
		Denied	7	3	6	5	9	3
Enrolled		0	0	0	0	0	0	
GRADUATES	Inquiries		6478	4143	3061	2199	1137	1201
	Applications		1594	1774	2849	2239	1120	1070
		Pending	824	750	1056	733	393	297
		Withdrawn Apps	2	1	4	9	4	1
	Admitted		508	781	1284	953	451	491
		Cancelled Admits	1	0	0	0	0	0
		Denied	260	242	505	544	272	281
Enrolled		0	0	0	0	0	0	
ORIENTATION	Freshmen	Total Reservations	N/A	N/A	539	659	689	743
	Transfer	Total Reservations	N/A	N/A	0	0	73	40
HOUSING AGREEMENTS		Upperclassmen	0	0	0	0	0	0
		Beginning Freshmen	N/A	N/A	N/A	496	625	761
		New Transfers	0	0	0	0	0	0
		TOTAL	0	0	0	0	0	0
	4TH WEEK CENSUS		Beginning Freshmen	696	715	815	897	877
	New Transfers	195	231	261	281	288	0	
	Graduates	348	395	423	348	402	0	
	TOTAL	1,239	1,341	1,499	1,526	1,567	0	

Unofficial Internal Planning Data - not intended for public release.



UNIVERSITY

RESEARCH



Proposals Awarded during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	47,985	114,495	0	0	0	0	0	-108,517	0				53,963
Chem.	401,907	7,623	0	701,475	123,555	78,800	80,000	18,557	29,935				1,441,851
Comp. Sci.	98,791	571,009	12,000	0	179,968	0	0	0	0				861,767
Engr. & Tech. Comm.	0	0	0	0	0	0	0	0	0				0
Hist./PS	5,000	0	2,224	0	0	0	0	0	0				7,224
Math/Stat	21,317	0	0	51,653	29,630	0	0	0	42,771				145,371
Phil.	0	0	0	0	0	0	0	0	26,732				26,732
Phys.	122,612	7,000	93,264	35,000	28,000	0	90,000	0	283,090				658,966
Psych.	64,787			0	0	0	0	0	0				64,787
A&S Totals:	762,398	700,127	107,488	788,128	361,153	78,800	170,000	-89,960	382,527	0	0	0	3,260,661
Materials Sci. & Eng.	238,527	327,132	72,486	268,855	282,545	536,868	246,835	188,855	668,750				2,830,852
Mining & Nuclear Eng.	144,931	1,151,344	149,396	29,916	238,000	15,486	3,225	58,999	39,913				1,831,209
Geol. Sci. & Engr.	0	281,170	10,000	135,000	85,638	79,640	0	136,985	9,500				737,933
Dean's Office	28,750	61,164	0	0	0	0	0	0	0				89,914
SoMEER	412,208	1,820,809	231,882	433,771	606,183	631,994	250,060	384,839	718,163	0	0	0	5,489,909
Basic Engr.	0	0	2,112	0	12,065	0	0	0	0				14,177
Chem & Biol. Engr.	0	0	40,000	0	0	0	0	0	60,000				100,000
Civil, Arch. & Env. Engr.	858,419	200,605	70,112	153,745	305,075	173,935	191,250	525,676	0				2,478,817
ECE	1,837,273	300,302	58,398	423,251	124,620	211,402	77,597	64,982	93,978				3,191,803
Engr. Mgt.	97,181	279,394	45,000	0	109,458	150,780	0	116,846	10,968				809,626
MAEM	104,006	657,993	458,541	678,475	52,933	12,000	9,000	277,001	44,902				2,294,849
SOE Totals	2,896,879	1,438,299	674,153	1,256,471	894,151	948,117	277,847	984,505	2,068,917	0	0	0	8,364,273
Econ. & Finance	10,000	0	1,779	0	0	0	0	0	0				11,779
Business Admin.	1,254,998	0	60,000	58,470	116,700	54,350	0	0	0				1,544,518
Info Sci. & Tech.	42,100	163,697	0	0	0	0	0	0	0				205,797
SMIS	1,307,098	163,697	61,779	58,470	116,700	54,350	0	0	0	0	0	0	1,762,094
Enrollment Mgt													0
International Affairs													0
Minority Affairs													0
Other		10,723				10,000							20,723
RPDC	271,989					54,592		27,000					353,581
KUMR		64,116				60,278							124,394
Grand Totals:	5,650,572	4,197,764	1,075,313	2,535,840	1,688,186	1,438,131	697,907	1,306,384	1,310,537	0	0	0	19,900,635

-6.9% compared to FY 04: \$21.4 M

Total: \$19.9 M



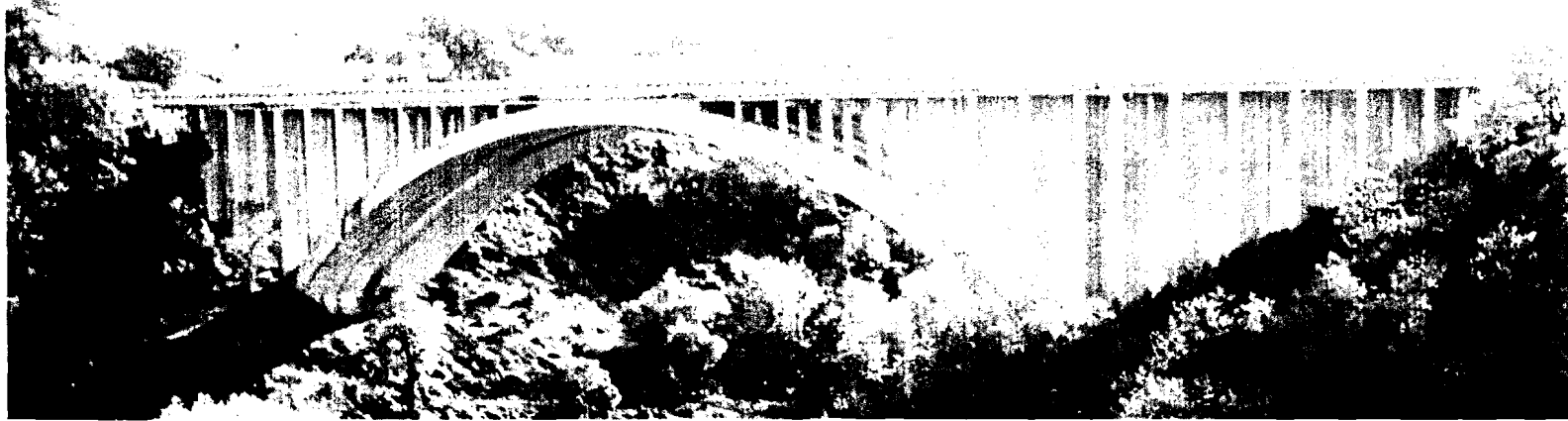
Proposals Submitted during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	2,019,716	307,295	349,735	53,032	844,748	214,453		200,626	35,231				4,024,836
Chem.	1,049,738	922,433	1,915,513	666,475	578,814	113,000	1,122,083	483,377	363,874				7,215,307
Comp. Sci.	1,229,161	1,505,721	0	0	1,058,224	899,334	1,123,479	915,180	477,296				7,208,395
Engr. & Tech. Comm.	0	8,210	0	0	0	0	132,478	0	0				140,688
Hist./PS	0	0	2,224	0	0	0	0	0	0				2,224
Math/Stat	0	0	0	400,636	1,410,072	0	0	0	42,771				1,853,479
Phil.	0	0	0	0	0	0	0	0	26,732				26,732
Phys.	1,071,015	81,178	820,309	417,423	0	105,010	268,051	319,661	230,246				3,312,892
Psych.	0	0	0	0	93,750	0	249,444	0	308,290				651,484
Dean's Office	0	246,983	0	0	0	0	0	0	0				0
A&S Totals:	5,369,630	3,071,819	3,087,781	1,537,566	3,985,608	1,331,797	2,895,535	1,918,844	1,484,440	0	0	0	24,683,020
Materials Sci. & Eng.	90,272	904,331	2,255,660	2,672,784	6,926,607	1,569,385	1,776,263	446,605	2,783,321				19,425,228
Mining & Nuclear Eng.	1,236,959	843,522	296,396	172,902	1,128,010	374,170	757,343	685,673	1,259,333				6,754,309
Geol. Sci. & Engr.	1,282,027	5,001	586,286	0	219,010	181,844	130,218	369,030	381,139				3,154,555
Dean's Office	0	258,647	0	0	0	0	0	0	0				258,647
SoMEER	2,609,258	2,011,501	3,138,342	2,845,686	8,273,627	2,125,399	2,663,824	1,501,308	4,423,793	0	0	0	29,592,739
Basic Engr.	0	595,560	333,240	0	88,485	239,602	177,598	2,000	1,000,000				2,436,484
Chem & Biol. Engr.	573,237	894,984	2,696,250	0	0	125,000	404,762	726,672	441,439				5,862,344
Civil, Arch. & Env. Engr.	1,195,456	1,298,199	593,113	321,627	1,629,036	276,913	731,762	598,676	2,074,507				8,719,289
ECE	2,180,745	1,451,226	1,135,450	463,079	831,956	3,244,772	2,060,074	1,711,504	1,668,591				14,747,398
Engr. Mgt.	800,002	1,341,687	325,597	448,445	679,346	612,204	1,135,723	480,556	1,500				5,825,060
MAEM	1,456,523	1,428,456	956,860	1,077,204	1,650,283	1,248,174	1,861,817	1,548,570	1,073,263				12,301,150
Dean's Office	0	740,948	0	0	0	0	0	0	0				740,948
SOE Totals	6,205,964	7,751,060	6,040,510	2,310,355	4,879,107	5,746,664	6,371,730	5,067,970	6,259,300	0	0	0	50,632,674
Econ. & Finance	0	12,500	16,841	0	186,250	0	0						215,591
Business Admin.	134,732	97,773	0	0	52,000	21,000	0						305,505
Info Sci. & Tech.	86,868	63,000	0	0	0	119,801	132,478	99,991					502,139
SMIS	221,601	173,273	16,841	0	238,250	140,801	132,478	99,991	0	0	0	0	1,023,235
Enrollment Mgt													0
UMR Global													0
Grad/UG Studies		308,728											308,728
Other		605					132,478		16,000				149,083
RPDC			148,592					27,000	36,351				211,943
KUMR													0
Grand Totals:	14,406,453	13,316,986	12,432,067	6,693,607	17,376,592	9,344,661	12,196,052	8,615,121	12,219,884	0	0	0	106,601,423

+3.2% compared to FY 04: \$103.3 M

Total: \$106.6 M

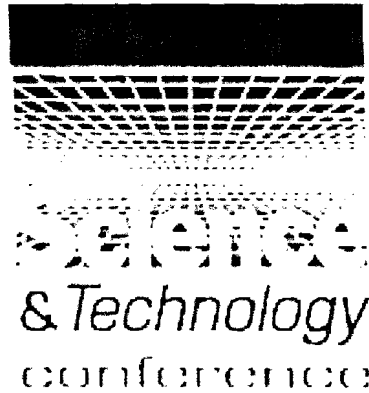
\$2.5M TSWG Program Blast Resistant Bridges and Tunnels



- ◆ UMR/UMC Partnership with the University of Naples Federico II, Italy
- ◆ Goal: to establish an international collaborative effort for research and education focused on the use of “emerging technologies for building and civil infrastructure assessment, evaluation, modeling and upgrade.”
- ◆ We’re going to blow up a bridge !

Tony Nanni, UMR
Sam Kiger, UMC

UMR



UMR, June 28-29th, 2005

- ◆ Sponsored by Senator Jim Talent
- ◆ Speakers to include Senator Talent, Senator Bond, Congressman Skelton,all major DOD funding agencies



UNDERGRADUATE AND GRADUATE STUDIES

Undergraduate Research

Undergraduate Research Day at the Capitol-
April 5, 2005

- UM System-Wide Event
- 16 UMR students presented the results of their research projects for the legislators and the public



UNDERGRADUATE RESEARCH DAY

April 13, 2005

WHEREAS, undergraduate research is a critical component of experiential learning and experiential learning is one of UMR's strategic initiatives; and

WHEREAS, research is a critical part of the mission of the University of Missouri. As a land grant institution, it was founded on the premise that new knowledge should be discovered for the benefit of the society; and

WHEREAS, experiential learning through research, design and service are important educational methodologies through which students master their discipline and hone valuable analytical skills and the ability to work effectively as a member of a team; and

WHEREAS, the University of Missouri-Rolla has emerged as a leader in promoting experiential learning. While many universities have impressive research activities, their success stems from the efforts of faculty assisted primarily by graduate students. While the University of Missouri-Rolla boasts high quality graduate programs, undergraduates participate in a broad spectrum of experiential learning activities; and

WHEREAS, the University of Missouri-Rolla emphasizes the participation of undergraduates in research through a number of means, including an annual undergraduate research conference. This event provides an opportunity for University of Missouri-Rolla undergraduates to showcase their research efforts to the campus community and to the public.

NOW THEREFORE, I, Gary Thomas, Chancellor of the University of Missouri-Rolla, do hereby proclaim April 13, 2005 to be

“UMR UNDERGRADUATE RESEARCH DAY”

on the University of Missouri-Rolla campus, and urge the campus community to join me in recognizing the research accomplishments of undergraduates at the University of Missouri-Rolla

Chancellor Gary Thomas



Undergraduate Research Day

A celebration of experiential learning at UMR

Undergraduate Research Conference-April 13, 2005

- Sponsored by Brewer Science Inc., and the Office of Undergraduate & Graduate Studies
- 70 undergraduate students will make oral and poster presentations
- UMR faculty will serve as judges
- Cash prizes awarded in each category
- Categories include:
 - Engineering*
 - Humanities/Social Science*
 - Management & Information Systems*
 - Natural Sciences*

Outstanding Academic Advising Awards

- **April 27, 2005-** UGS will present awards to seven outstanding academic advisors on the campus:

Ronald L. Frank

Outstanding Academic Advisor- College of Arts & Sciences

Stephen A. Raper

Outstanding Academic Advisor- School of Engineering

Estella Atekwana

Outstanding Academic Advisor- School of Materials, Energy & Earth Resources

Stephanie Fitch

Outstanding Academic Advisor- School of Management & Information Systems

Clayton Price

Outstanding Freshman Student Advisor- UMR

Rodney W. Lentz

Outstanding Transfer Student Advisor- UMR

Roberta J. Cox

Outstanding Student Advisor- UMR Staff



Center for Educational Research & Teaching Innovation

CERTI Activities:

- April 7, 2005 – “Communication in the Classroom” (GTA workshop)
- April 14, 2005 - Communication in the Classroom (Faculty workshop)



SCHOOL OF EXTENDED LEARNING

School of Extended Learning

1. UMR was represented at the Mazoon College, Oman graduation exercises the week of April 11 by Provost Y. T. Shah, Chancellor Designate Dr. John Carney and Ms Jeanie Hofer, Director of UMR's International Affairs office. UMR has a contract with Mazoon College to assist them in developing several degree programs to serve the female population of Oman. There are currently about 1000 students enrolled in the four year old institution.
2. The School of Extended Learning will be holding its first award luncheon in the Havener Center on April 27 to present deserving faculty with outstanding teaching awards. These awards will be given to selected faculty that have taught distance education courses during the past four semesters for which course evaluations are available. The evaluations used are the same as those used for campus courses, however, the criteria for selection were based on a modification of the campus criteria to account for the smaller class sizes found in distance courses.
3. Distance course schedules for SS 2005 and FS 2005 are posted at http://dce.umar.edu/Credit/Courses/dce_course_catalog_listing.html. Faculty teaching distance courses are urged to submit the syllabus for their course to debbyt@umar.edu for posting on the site.

INFORMATION TECHNOLOGY

Information Technology

Applications/Enterprise Reporting

- » Blackboard Seminar conducted for faculty
- » FAS (Faculty Accomplishment System) went into production mid March
- » Academic Alert system is in beta testing with the Physics department

Networks and Computing

Voice-Over IP Telephony Project

- » Over 383 VoIP phones deployed
- » Curtis Laws Wilson Library and Electrical and Computer Engineering have been added to the VoIP network

Solutions Center

Desktop Enhancement

- » 866 machines have been inventoried to date for FY2005 – FY2007
- » 282 Machines have been inventoried to date for FY2005
- » 140 Desktop Enhancement machines have been deployed to date



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Memo To: Academic Council
From: UMR Campus Curriculum Committee Meeting
RE: March 3 & April 7, 2005 Meeting

The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.

Approved DC forms:

DC 0146, SMIS, Information Science & Technology, approved effective Fall 2005.
A proposal to clarify electives with recently approved emphasis areas.

DC 0151, College of Arts & Sciences, Psychology, approved effective Fall 2005. A proposal to add Psychology 10 to the curriculum for the Bachelor of Arts and the Bachelor of Science in Psychology.

DC 0152, College of Arts & Sciences, Psychology emphasis areas, approved effective Fall 2005. A proposal to make some changes to the current emphasis areas and to also create a new emphasis area called Psychology of Leadership.

DC 0153, College of Arts & Sciences, Biological Sciences, approved effective Fall 2005. A proposal to modify the current curriculum for the Bachelor of Arts and the Bachelor of Science in Biological Sciences.

DC 0154, School of Engineering, Engineering Management, approved effective Fall 2005. A proposal to create a new minor in Engineering Management.

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 5930, Biological Sciences 115, Zoology. The following changes are approved effective Fall 2005.

Catalog Description – Present: Study of protozoans and major phyla in the animal kingdom. Emphasis on the evolution of organ systems and phylogenetic relationships.

Proposed: Survey class that explores the diversity of animal life. Emphasis on the morphology, physiology, development, ecology, and phylogeny of animals and protozoans.

Credit Hours – Present: Lecture: 3 Lab: 1 Total:4
Proposed: 3 hour Lecture

Prerequisites – Present: Biol 112
Proposed: None



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CC 5935, Biology 116, Zoology Laboratory. New course approved effective Fall 2005.

Catalog Description: Bio 116 is designed to accompany Bio 115 and consists of laboratory and field explorations of the diversity of animal life.

Credit Hours: 1 hour Lab

Prerequisites: Preceded or accompanied by Bio 115

CC 5941, Biological Sciences 222, Microbiology Lab. New course approved effective Fall 2005.

Catalog Description: General introduction to the techniques used for the culture and identification of microorganisms, their physiology, structure, and contribution to biology.

Credit Hours: 2 hour Lab

Prerequisites: Preceded or accompanied by Bio Sc 221

CC 5942, Biological Sciences 221, Microbiology. The following change has been approved effective Fall 2005.

Credit Hours – Present: Lecture: 3 Lab: 2 Total: 5

Proposed: 3 hour Lecture

CC 5961, Biological Sciences 251, Ecology. The following changes are approved effective Fall 2005.

Catalog Description – Proposed: Relationships between organisms and the environment.

Topics include the influence of environmental factors on individual organisms, population dynamics, interspecific associations, and entire ecosystems. Lectures and weekly lab and field exercises.

Credit Hours – Present: 3 hour Lecture

Proposed: Lecture: 3 Lab: 1 Total: 4

Prerequisites – Present: None

Proposed: Bio Sci 110 or Bio Sci 111

CC 5972, Geology 56, Earth Science. New course approved effective Summer 2005.

Catalog Description: This is a general study of the earth: its origin; the development of its crustal features and the processes that shape them; its oceans; its climates; and its neighbors in the solar system. This course will be offered through The Center for Independent Study.

Credit Hours: 3 hour Lecture

Prerequisites: None

CC 5973, Technical Communication 420, Advanced Theories of visual technical communication. New course approved effective Fall 2005.

Catalog Description: An in-depth investigation and analysis of historical and contemporary visual theories and their impact on technical communication, including visual rhetoric, semiotics, and design and critical theories.



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Credit Hours: 3 hour Lecture
Prerequisites: None

CC 5975, Mining Engineering 350, Blasting Design and Technology. The following change has been approved effective Fall 2005.

Prerequisite – Present: Min Eng 307

Proposed: Min Eng 307, Student must be at least 21 years of age

CC 5977, Geology 50, Introduction to Physical Geology. New course approved effective Fall 2005.

Catalog Description: A study of earth materials, surface features, internal structures and processes. Particular attention is paid to earth resources, geological hazards, engineering and environmental problems.

Credit hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Entrance requirements

Co-listing: Geological Engineering 50

CC 5978, Computer Science 328, Object-Oriented Numerical Modeling I. The following changes have been approved effective Fall 2005.

Catalog Description – Proposed: A study of object-oriented modeling of the scientific domain. Techniques and methodologies will be developed enabling the student to build a class library of reusable software appropriate for scientific application. Applications will be drawn from mechanics, finance, and engineering.

Prerequisites – Present: Cmp Sc 228 and Cmp Sc 153

Proposed: Cmp Sc 228 and Cmp Sc 153 and one of Math 208, 203, 229

CC 5980, Mining Engineering 415, Advanced Mine Health and Safety Design. The following changes are approved effective Fall 2005.

Catalog Description – Proposed: Principles of design of mining operations with emphasis on the health and safety of the worker.

Prerequisite – Present: None

Proposed: Graduate standing

CC 5981, Biological Sciences 345, Comparative Chordate Anatomy. The following changes are approved effective Fall 2005.

Catalog Description – Proposed: An integrated, comparative study of chordate structures and systems, with emphasis on evolution, development and function. Includes examination of gross anatomy and histology of selected forms.

Prerequisites – Present: Bio 215

Proposed: Bio 110 or 111, and Bio 115 and 116

CC 5982, Biological Sciences 400, Special Problems. New course approved effective Fall 2005.



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Catalog Description: Graduate problems or readings on specific subjects or projects in the department.

Credit Hours: Variable

Prerequisites: Consent of the instructor

CC 5983, Geological Engineering 50, Geology for Engineers. The following changes are approved effective Fall 2005.

Course Title – Proposed: Introduction to Physical Geology

Catalog Description – Proposed: A study of Earth materials, surface features, internal structures and processes. Particular attention is paid to Earth resources, geological hazards, engineering and environmental problems.

Co-listing: Geology 50

CC 5984, Psychology 350, Psychology of Women. New course approved effective Fall 2005.

Catalog Description: A history of the psychology of women with a focus on the latest research and theories in the field (e.g., research methods, gender theories, biological and social factors, communication and leadership styles, nature of interpersonal relationships, and health and mental issues).

Credit Hours: 3 hour Lecture

Prerequisites: Psych 50

CC 5985, Basic Engineering 10, Study and Careers in Engineering. The following change has been approved effective Fall 2005. Corrections will be made to all curriculums affected by this change.

Discipline and Course Number – Present: Basic Engineering 10

Proposed: Freshman Engineering 10

CC 5986, Engineering Management 365, Operations Management Science. New course approved effective Fall 2005.

Catalog Description: Application of management science with an emphasis on supporting managerial decision making. Design and operations of systems are modeled and analyzed using quantitative and qualitative techniques implemented using modern technology. Specific approaches include mathematical modeling and optimization, probabilistic/statistical analysis, and simulation.

Credit Hours: 3 hour Lecture

Prerequisites: Emgt 282 with at least a C or graduate standing

CC 5987, Ceramic Engineering 477, Atomic Structure in Solid State Materials. The following changes are approved effective Fall 2005.

Discipline and Course Number – Proposed: MSE 421

Course Title – Proposed: Bonding, Crystallography, and Structure-Property Relationships



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Catalog Description – Proposed: Principles of electronic structure and chemical bonding in solids and their relationships to electrical, mechanical, thermal, and optical properties. An exploration of reciprocal lattices and tensor properties of crystal symmetry on anisotropy. The influence of defects and grain boundary phenomena on material behavior.

Credit Hours – Present: 4 hour Lecture

Proposed: 3 hour Lecture

Prerequisites – Present: Graduate Standing

Proposed: Graduate standing, or undergraduate standing with instructor and advisor approval.

CC 5988, Metallurgical Engineering 427, Diffusion. The following changes are approved effective Fall 2005.

Discipline and Course Number – Proposed: MSE 423

Course Title – Proposed: Kinetic Theory for Materials

Catalog Description – Proposed: Phenomenological and atomistic theories of diffusion in materials including discussion of short circuit diffusion and ionic diffusion in an electric field. Fundamentals of phase transformation in materials; chemical fluctuation, nucleation and growth theory; kinetic models for evaluating and predicting diffusion controlled transformation kinetics.

Prerequisites – Present: Met 361

Proposed: Graduate standing, or undergraduate standing with instructor and advisor approval.

CC 5989, Metallurgical Engineering 478, Thermodynamics and Kinetics of Materials. The following changes are approved effective Fall 2005.

Discipline and Course Number – Proposed: MSE 422

Course Title – Proposed: Thermodynamics and Phase Equilibria

Catalog Description – Proposed: Classical thermodynamic treatment of materials and material processing based on the 1st and 2nd Laws of Thermodynamics and phase equilibria considerations. The course will cover equilibria in gaseous systems, gas-solid reactions including passive and active oxidation, solution thermodynamics, phase equilibria in solution systems, and electrochemistry.

Credit Hours – Present: 4 hour Lecture

Proposed: 3 hour Lecture

Prerequisites – Present: Graduate Standing

Proposed: Graduate standing, or undergraduate standing with instructor and advisor approval.

CC 5990, Mechanical Engineering 358, Engineering Management 358, Integrated Product Development. The following change is approved effective Fall 2005.

Prerequisites – Present: Eng Mg 354 or Mc Eng 357

Proposed: Eng Mg 354 or Mc Eng 357 or Mc Eng 253 or Mc Eng 308



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CC 5991, Econ 250, Business 250, Business Finance. The following changes are approved effective Fall 2006.

Discipline and Course Number – Proposed: Finance 250

Course Title – Proposed: Corporate Finance I

Prerequisites – Present: Bus 120, Econ 111, Econ 122

Proposed: Bus 120, and Econ 121 or Econ 122

CC 5992, Econ 321, Finance. The following changes are approved effective Fall 2006.

Discipline and Course Number – Proposed: Finance 350

Course Title – Proposed: Corporate Finance II

Prerequisite – Present: Econ 221 or Econ 222

Proposed: Finance 250

CC 6000, Finance 201, Special Topics. New course approved effective Fall 2005.

Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable title.

Credit Hours: 0-6

Prerequisites: None

CC 6001, Finance 301, Special Topics. New course approved effective Fall 2005.

Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable title.

Credit Hours: 0-6

Prerequisites: None

For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.

Approved EC forms:

EC 1635, Chemistry 401, Bioinorganic Chemistry, approved effective Fall 2005.

Course Description: Metallobiomolecules, including metalloenzymes and other metalloproteins; oxygen carriers; iron transport and other iron proteins; copper proteins; cancer agents and cures; nitrogen-fixation, etc.

Credit Hours: 3 hour Lecture

Prerequisites: Chem 331

EC 1646, Computer Science 301, IST 301, Modular Software Systems Design & Development, approved effective Spring 2006.

Course Description: Introduction to Software Life cycle and characteristics of large modular software systems. Exploration of software support for such systems, using



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Java, including use of GUI interfaces, advanced I/O and String handling, Interfaces, Threads, and other modularity features. Program project included.

Credit Hours: 3 hour Lecture

Prerequisites: Comp Sci 253; or IST 151 and IST 231

EC 1647, Computer Science 401, Modeling and Simulation in Multiagent Systems, approved effective Spring 2006.

Course Description: This course introduces the use of multiple software agents in complex adaptive system modeling and simulation. The focus is on the techniques of agent search and learning, dynamic information retrieval, coordination mechanisms, negotiation protocols and strategic simulation. Applications include web information gathering, negotiation in e-commerce, and cooperative workflow management.

Credit Hours: 3 hour Lecture

Prerequisites: CS 347

EC 1649, Geophysics 301, Transportation Geophysics, approved effective Fall 2005.

Course Description: Applications of Geophysics to analysis of bridge substructure, bridge superstructure, pavements, roadway subsidence, subsurface characterization and vibration measurements.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: At least junior standing

EC 1650, English 301, French 301, 19th century French & American literature in comparison, approved effective Summer 2005.

Course Description: This course examines some of the major French and American authors and literary movements of the nineteenth century. While the major nineteenth-century literary movements will be discussed, Romanticism and American Transcendentalism will receive special emphasis.

Credit Hours: 3 hour Lecture

Prerequisites: English 20 and one semester college lit.

EC 1651, Statistics 301, Introduction to Biostatistics, approved effective Fall 2005.

Course Description: This will be the second time this course is offered as an experimental course. The course introduces students to statistical methods as applied to problems in the biological, medical, and environmental sciences. The 1 credit lab will focus on data analysis using statistical software.

Credit Hours: Lecture: 3 Lab: 1 Total: 4

Prerequisites: Math 002 or Math 004, at least Junior standing or consent of instructor

EC 1652, Nuclear Engineering 301, Two-phase Flow in Energy Systems – Part I, approved effective Fall 2005.



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Course Description: This is an intermediate level course for senior undergraduate or graduate students who are interested in the area of two-phase flow. This course will acquaint students with knowledge on single-phase & two-phase fluid flow and fundamental thermal-hydraulic phenomena related to energy systems.

Credit Hours: 3 hour Lecture

Prerequisites: NE 221 or NE 223 or Ch Eng 231 or ME 231

EC 1653, Computer Science 401, Research Topics in Wireless Networking, approved effective Spring 2006.

Course Description: This course introduces the fundamentals and recent research advances in the field of wireless networking. Coverage includes cellular networks, ad hoc networks, and wireless LANs with a focus on network operation. Special topics selected from the literature such as wireless security and sensor networks will also be addressed. Students are expected to finish a research project on a selected topic.

Credit Hours: 3 hour Lecture

Prerequisites: Cmp Sc 285 or equivalent, and graduate standing

EC 1654, Biological Sciences 401, Advanced Comparative Chordate Anatomy, approved effective Fall 2005.

Course Description: An integrated, comparative study of chordate structures and systems, with emphasis on evolution, development and function. Includes examination of gross anatomy and histology of selected forms. Independent research projects and primary literature readings required.

Credit Hours 2 hour Lecture

Prerequisites: Graduate Standing

EC 1655, Biological Sciences 401, Advanced Toxicology, approved effective Fall 2005.

Course Description: a study of natural and man-made toxicants, various possible routes of exposure, absorption, distribution, biotransformation, specific target sites, and mechanisms involved in elicitation of toxic effects, as well as detoxification and excretion. Independent research projects and primary literature readings required.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing, or undergraduate with consent of instructor

EC 1656, Economics 301, Math 301, Financial Mathematics, approved effective Fall 2005.

Course Description: This course will provide an understanding of the fundamental concepts of financial mathematics and how these concepts are applied in calculating present and accumulating value for streams of cash flow. Preparation for financial mathematics actuarial exam will be provided.

Credit Hours: 3 hour Lecture



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Prerequisites: Math 15 or Math 21, Econ 221 and Econ 222, Econ 250 or Econ 321, Stat 211 or Stat 213 or Stat 215 or Stat 217 or Stat 343

EC 1657, Mechanical Engineering 301, Computer Engineering 301, Electrical Engineering 301, Aerospace Engineering 301, Mechatronics, approved effective Fall 2005.

Course Description: This course will introduce the student to the basics of mechatronics (i.e., the integration of mechanical, electrical, computer, and control systems). Topics include sensors and actuators for mechanical systems, computer interfacing, microcontrollers, real-time software, and digital control. Laboratory exercises will augment lecture material and students will build an entire mechatronic system.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: ME 279 or EE 231 or AE 261 or equivalent

EC 1658, Engineering Management 401, Advanced Topics in Simulation Modeling, approved effective Fall 2005.

Course Description: Design and analysis of distributed systems using discrete-event simulations and synchronization of distributed models. Design and implementation of finite state automata and simulation models as control execution systems. Functioning of real-time, agent-based, and multipass simulations.

Credit Hours: 3 hour Lecture

Prerequisites: E Mgt 356 or Graduate Standing

EC 1659, Electrical Engineering 401, Electric and Hybrid Vehicles, approved effective Fall 2005.

Course Description: This course provides a comprehensive knowledge of electric and hybrid electric vehicles including series, parallel, and compound structures. The emphasis is on both fundamentals and design methodologies of electric loads and advanced distribution system architectures.

Credit Hours: 3 hour Lecture

Prerequisites: EE 205

EC 1660, Mechanical Engineering 401, Micro-& Nano-Scale Thermophysics and Energy Transport, approved effective Fall 2005.

Course Description: Introduces advanced statistical thermodynamics, nonequilibrium thermodynamics, kinetic theory, and quantum theory to analyze thermophysics and energy transport for microscale and nanoscale systems. Covers the fundamental concepts and interactions of photons, electrons and phonons in the forms of waves and particles. Includes applications to ultrafast (femtosecond and picosecond) laser processing.

Credit Hours: 3 hour Lecture

Prerequisites: ME 325



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EC 1661, Architectural Engineering 301, Passive Solar Engineering, approved effective Fall 2005.

Course Description: This course will treat topics in passive solar analysis and design. It will deal with various types of passive space heating and cooling systems applying principles of theory to actual application through the use of both computer modeling techniques and actual case studies. Both instantaneous and long-term performance will be analyzed. Economics and construction topics will be discussed.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: ME 371

EC 1662, Civil Engineering 301, Green Engineering: Analysis of Constructed Facilities, approved effective Fall 2005.

Course Description: Environmentally sound design and construction practices. Includes design issues, material selection and site issues that can reduce the impact on the environment caused by the construction process.

Credit Hours: 3 hour Lecture

Prerequisites: CE 248 and at least junior standing

EC 1663, Electrical Engineering 301, Electrical Machines and Control, approved effective Fall 2005.

Course Description: The objective of this course is to develop further the understanding of the performance of ac rotation electrical machines particularly when these are supplied from sinusoidal and non-sinusoidal supplies. Students will develop the necessary background to understand the effects of space and time harmonics in the machines, in relation to developed torque, losses and output power.

Credit Hours: 3 hour Lecture

Prerequisites: Senior or graduate standing

EC 1664, Electrical Engineering 401, Stochastic Signal Analysis II, approved effective Fall 2005.

Course Description: A continuation of El Eng 344, with emphasis upon continuous-time stochastic signals, multi-dimensional signals, Wiener and matched filters, LMS equalization, non-linear systems with random inputs, spectral estimation and Markov chains.

Credit Hours: 3 hour Lecture

Prerequisites: El Eng 344

EC 1665, Mechanical Engineering 301, Aerospace Engineering 301, Probabilistic Engineering Design, approved effective Fall 2005.

Course Description: Uncertainty modeling and analysis, and engineering design under uncertainty, including structural reliability analysis and reliability-based design,



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analytical robustness assessment and robust design, their integration with design simulations, and their engineering applications.

Credit Hours: 3 hour Lecture

Prerequisites: ME 208 or AE 261

EC 1666, Nuclear Engineering 301, Neutron Transport Theory, approved effective Fall 2005.

Course Description: The Boltzman equation; general properties and solution; numerical methods of solving the transport equation. Neutron thermalization and neutron spectra.

Credit Hours: 3 hour Lecture

Prerequisites: NE 205, Math 204

EC 1667, Nuclear Engineering 301, Advanced Fusion Theory, approved effective Fall 2005.

Course Description: Plasma stability theory, charged particle diffusion, slowing down of charged particles, interaction of radiation with matter, direct energy conversion using charged particles, and engineering considerations.

Credit Hours: 3 hour Lecture

Prerequisites: NE 205, Math 204

EC 1670, Finance 201, Investments I, approved effective Fall 2005.

Course Description: This is an introductory course in investments. The objective of this course is to introduce students to the fundamental elements of investment analysis. At the conclusion students should independently understand the basic valuation techniques and use these techniques to make investment decisions.

Credit Hours: 3 hour Lecture

Prerequisites: Econ 121 or Econ 122

EC 1671, Finance 301, Investment II, approved effective Spring 2006.

Course Description: This is an advanced course in investments and builds on Investment I. The concerns of this course are financial resource management and development of a practical approach to the valuation process for equities and fixed income securities.

Credit Hours: 3 hour Lecture

Prerequisites: Investment I

EC 1672, Finance 301, Introduction to Derivatives, approved effective Fall 2006.

Course Description: This course provides an introduction to one of the most rapidly developing areas in finance: derivative securities. It examines the valuation mechanisms within each derivative market as well as the application of derivatives in the financing, investing and hedging practices of both firms and financial institutions.



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Credit Hours: 3 hour Lecture

Prerequisites: Corporate Finance I or Investments I

EC 1686, Mining Engineering 301, Advanced Mine Health and Safety, approved effective Fall 2005.

Course Description: Advanced topics in mine health and safety are covered in some depth, including effective management of mine health and safety, historical industry accident/injury performances, future challenges, analysis of MSHA data, risk analysis and management, loss control, the rulemaking process, the regulatory agenda, workers' compensation, and others.

Credit Hours: 3 hour Lecture

Prerequisites: Junior or senior standing

J. Keith Nisbett, Chair
UMR Campus Curricula Committee

Academic Council Resolution - Recognition of Chancellor Thomas

WHEREAS, Chancellor Gary Thomas has led the University of Missouri-Rolla for the past five years with an unwavering commitment to quality and improvement; and

WHEREAS, Chancellor Thomas successfully mobilized the campus to reverse a declining enrollment trend by focusing attention on student recruitment and retention efforts; and,

WHEREAS, Chancellor Thomas challenged the campus to realize its full potential in research productivity, and in heeding this call the campus has nearly doubled its external funding; and

WHEREAS, Chancellor Thomas has been a champion and vigorous advocate for this campus among state leaders; and

WHEREAS, Chancellor Thomas has successfully promoted a beautification and building program on campus, with the remarkable Havener Center completed, the Residential College nearly completed, and several other projects initiated; and

WHEREAS, the Academic Council deeply appreciates all that Chancellor Thomas has done for the University of Missouri-Rolla,

THEREFORE, BE IT RESOLVED that the University of Missouri-Rolla's Academic Council gratefully recognizes the contributions to the growth and long-term well-being of the University of Missouri-Rolla led by Chancellor Gary Thomas and thanks him for his tireless dedication to our campus community.

BE IT FURTHER RESOLVED that the Academic Council extends warmest good wishes to Chancellor Gary Thomas with hopes for continued success in all his future endeavors.

PASSED: April 21, 2005

Michael Hilgers
President
Academic Council

Robert Schwartz
President-Elect
Academic Council

Todd Hubing
Past-President
Academic Council

Kurt Kosbar
Secretary
Academic Council

Frank Blum
Parliamentarian
Academic Council

PUBLIC OCCASIONS DATES FOR 2005-2006

Fall Semester:

Fall Career Fair	Thursday, September 22, 2005
Homecoming	Friday & Saturday, Sept 30 & Oct 1, 2005
Rolla Night at the Engineer's Club of St. Louis	Thursday, October 6, 2005
Student Council Free Day	Friday, October 7, 2005
Fall Open House I	Saturday, October 15, 2005
Family Day	Saturday, October 15, 2005
Fall Open House II	Saturday, November 12, 2005
Commencement*	Saturday, December 17, 2005

Spring Semester

Spring Career Fair	Wednesday, February 8, 2006
Spring Open House I (President's Day)	Monday, February 20, 2006
Spring Open House II (Good Friday)	Friday, April 14, 2006
Commencement*	Saturday, May 13, 2006

*Previously established as part of the 2005-2006 calendar

FALL SEMESTER 2006

Open Registration Ends	August 17, Thursday
International Student Orientation	August 8, Tuesday
Fall Semester opens 8:00 a.m.	August 13, Sunday
Freshman Orientation Begins	August 13, Sunday
Transfer Student Orientation	August 16, Wednesday
Classwork begins 8:00 a.m.	August 21, Monday
Labor Day Holiday	September 4, Monday
Mid-Semester	October 14, Saturday
Thanksgiving vacation begins 8:00 a.m.	November 19, Sunday
Thanksgiving vacation ends 8:00 a.m.	November 27, Monday
Last Class Day	December 8, Friday
Reading Day	December 9, Saturday
Final Examinations begin 8:00 a.m.	December 11, Monday
Final Examinations end 6:00 p.m.	December 15, Friday
Fall Semester closes 6:00 p.m.	December 15, Friday
December Commencement	December 16, Saturday

SPRING SEMESTER 2007

Open Registration Ends	January 4, Thursday
International Student Orientation	January 2, Tuesday
Spring Semester opens 8:00 a.m.	January 8, Monday
Classwork begins 8:00 a.m.	January 8, Monday
Martin Luther King Jr. Recognition Holiday	January 15, Monday
Mid-Semester	March 3, Saturday
Spring Recess begins 8:00 a.m.	March 15, Thursday
Spring Recess ends 8:00 a.m.	March 19, Monday
Spring Break begins 8:00 a.m.	March 25, Sunday
Spring Break ends 8:00 a.m.	April 2, Monday
Last Class Day	May 4, Friday
Reading Day	May 5, Saturday
Final Examinations begin 8:00 a.m.	May 7, Monday
Final Examinations end 6:00 p.m.	May 11, Friday
Spring Semester closes 6:00 p.m.	May 11, Friday
May Commencement	May 12, Saturday

***SUMMER SESSION 2007**

Open Registration Ends	June 8, Friday
Summer Session opens 8:00 a.m.	June 11, Monday
Classwork begins 8:00 a.m.	June 11, Monday
Independence Day Holiday (observed)	July 4, Wednesday
Final Examinations begin 8:00 a.m.	August 2, Thursday
Final Examinations end 12:30 p.m.	August 3, Friday
Summer Session closes 12:30 p.m.	August 3, Friday

* Schedule shows regular eight-week Summer Session. Other special courses may be scheduled.

CLASS SESSIONS (EXCLUDING FINAL EXAMINATIONS)

	<u>M</u>	<u>TU</u>	<u>W</u>	<u>TH</u>	<u>F</u>	<u>S</u>
Fall Semester	14	15	15	15	15	15
Spring Semester	15	16	16	15	15	15
Summer Semester	8	8	7	7	7	7

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.

FALL SEMESTER 2006

old

Open Registration Ends	August 17, Thursday
International Student Orientation	August 8, Tuesday
Fall Semester opens 8:00 a.m.	August 13, Sunday
Freshman Orientation Begins	August 13, Sunday
Transfer Student Orientation	August 16, Wednesday
Classwork begins 8:00 a.m.	August 21, Monday
Labor Day Holiday	September 4, Monday
Mid-Semester	October 14, Saturday
Thanksgiving vacation begins 8:00 a.m.	November 22, Wednesday
Thanksgiving vacation ends 8:00 a.m.	November 27, Monday
Last Class Day	December 8, Friday
Reading Day	December 9, Saturday
Final Examinations begin 8:00 a.m.	December 11, Monday
Final Examinations end 6:00 p.m.	December 15, Friday
Fall Semester closes 6:00 p.m.	December 15, Friday
December Commencement	December 16, Saturday

SPRING SEMESTER 2007

Open Registration Ends	January 11, Thursday
International Student Orientation	January 9, Tuesday
Martin Luther King Jr. Recognition Holiday	January 15, Monday
Spring Semester opens 8:00 a.m.	January 16, Tuesday
Classwork begins 8:00 a.m.	January 16, Tuesday
Mid-Semester	March 10, Saturday
Spring Recess begins 8:00 a.m.	March 15, Thursday
Spring Recess ends 8:00 a.m.	March 19, Monday
Spring Break begins 8:00 a.m.	March 25, Sunday
Spring Break ends 8:00 a.m.	April 2, Monday
Last Class Day	May 11, Friday
Reading Day	May 12, Saturday
Final Examinations begin 8:00 a.m.	May 14, Monday
Final Examinations end 6:00 p.m.	May 18, Friday
Spring Semester closes 6:00 p.m.	May 18, Friday
May Commencement	May 19, Saturday

***SUMMER SESSION 2007**

Open Registration Ends	June 8, Friday
Summer Session opens 8:00 a.m.	June 11, Monday
Classwork begins 8:00 a.m.	June 11, Monday
Independence Day Holiday (observed)	July 4, Wednesday
Final Examinations begin 8:00 a.m.	August 2, Thursday
Final Examinations end 12:30 p.m.	August 3, Friday
Summer Session closes 12:30 p.m.	August 3, Friday

* Schedule shows regular eight-week Summer Session. Other special courses may be scheduled.

CLASS SESSIONS (EXCLUDING FINAL EXAMINATIONS)

	M	TU	W	TH	F	S
Fall Semester	15	16	15	15	15	15
Spring Semester	15	16	16	15	15	15
Summer Semester	8	8	7	7	7	7

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.



CERTIFICATION OF MINUTES OF THE
UNIVERSITY OF MISSOURI
BOARD OF CURATORS MEETINGS
April 8, 2005

It was recommended by Senior Vice President Lehmkuhle, endorsed by President Floyd, recommended by the Academic and Student Affairs Committee, moved by Curator Walsworth and seconded by Curator Bennett, that the following action be approved:

the Academic Calendar in the proposed Collected Rules and Regulations Section 20.140 be approved beginning in the 2006-2007 academic year.

Collected Rules and Regulations
Programs, Courses and Student Affairs
Chapter 20.140: Academic Calendar

20.140 Academic Calendar
Bd. Min.

- A. The academic calendar will conform to the following timetable:
1. The fall semester will begin the first Monday after August 18.
 2. The spring semester will begin on the Monday before Martin Luther King Day for UM-Kansas City, UM-Rolla, and UM-St. Louis, and will begin on the Tuesday after Martin Luther King Day for UM-Columbia.
 3. There will be no classes during the week of Thanksgiving.
 4. Spring break will be the week containing the last Wednesday in March.
 5. The last day of class, study day schedules, and final exam schedules will be set by each campus. Each campus should set the last day of class to allow for at least 43 Monday, Wednesday, and Friday classes for each class scheduled to meet on those days of the week, and 29 Tuesday and Thursday classes for classes scheduled to meet on those days.
 6. The campus will set the dates for commencement, the schedules for intersession, the various schedules for the summer semester, the dates for any off-schedule course meetings, and the schedules for professional schools.

- B. Any variations to the above academic calendar must be recommended by the faculty and Chancellor of the campus, recommended by the President, and approved by the Board of Curators.

Roll call vote:

Curator Atkins voted yes.
Curator Bennett voted yes.
Curator Cairns voted yes.
Curator Carnahan voted yes.
Curator Ream voted yes.
Curator Russell voted yes.
Curator Walker voted yes.
Curator Walsworth voted yes.
Curator Wasinger voted yes.

President Atkins declared the motion carried unanimously by a vote of nine and zero.

* * * * *

I, Kathleen M. Miller, Secretary of the Board of Curators of the University of Missouri, do hereby certify that the foregoing is a true and complete copy of the minutes of the Board of Curators meeting held on April 8, 2005, the same as appear in the permanent records of the University of Missouri.

Witness my hand this 7th day of June 2005.



Kathleen M. Miller, Secretary
University of Missouri Board of Curators

Academic Council

@ University of Missouri Rolla

About Academic Council Volume VI, 6
Minutes of the Academic Council Meeting

Committee Members February 17, 2005

Upcoming Meetings

Meeting Minutes

Bylaws

VI, 6 The meeting was called to order at 1:30 p.m. by President Michael Hilgers. Roll call was taken, and absentees noted were: Tom Schuman, Michael Meagher (Jeff Schramm substituting), Massimo Bertino, Jim Martin (Will Canu substituting) David Van Aken, Paul Worsey (Gary Mueller substituting) Robert Stone (Ron Fannin substituting), Neil Book, Roger Laboube, Tom Petry, Todd Hubing, S. N. Balakrishnan, Gih-Ru Lea, Gary Thomas, Y. T. Shah (Harvest Collier substituting), and Debra Robinson

There was a motion and second to approve the minutes of the January 20, 2005 Academic Council meeting. The Academic Council body voted to accept the minutes.

1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - Michael Hilgers

- a Board of Curators Meeting approved a 3.5% educational fee. Introduced an addition to the collective rules and regulations on executive performance guidelines. President Floyd also announced that he was issuing an executive order that was putting a freeze on all unfilled administrative positions throughout the system. Issued an order for all Chancellors to begin a review of our administrative processes to make sure that we are running as efficiently as possible. The Board of Curators meeting here in April has changed and will only be on campus for one day. Our traditional opportunity for having a breakfast for them has ended. I am working on having members of the Academic Council invited to the reception the night before.
- b Follow-up of motions: (1) Campus-wide discussion list serve has been created and I have sent an e-mail out announcing that the list serve is AC-L and available for use. Academic council members are able to communicate issues of importance to the faculty as a whole with an opt-out capability. (2) Promotion and Tenure Committee Motion (two-part motion) a. Requested the Provost to send letters to all tenure-tracked faculty clarifying their date when their promotion dossiers would be due. b. Requested in processing request for extensions for

tenure consideration that the Campus Promotion and Tenure Committee be involved if there is a need for discussion. Provost agreed and this motion has been taken care of. (3) Strategic Planning Committee motion made at the last meeting regarding open forums. The dates have been set, and we have had one open forum and more will continue. Check out the Strategic Planning Web site if you haven't.

c Faculty Accomplishment System - Have received several e-mails and organized help sessions on 2/23 in EE every 1 1/2 hours. Times are 9:00, 10:30, 12:00, and 1:30. Two people from the UM Systems will be here to help, so bring your activity sheets and start entering.

d IFC - There are several ongoing issues. Administrative review, non-regular faculty, public occasions calendar, and computer usage and privacy issues.

B. CHANCELLOR'S REPORT - Robert Mitchell

a Private Giving - We are on track with \$18 million. This is the largest year in UMR history for private giving.

b UM System has announced a flat appropriation for next year.

c Toomey Hall - We now have a total of \$7.5 million in contributions. Our target goal is \$11 million dollars and we believe we are going to make it.

d The senate amendment to change Southwest Missouri State to Missouri State University is under way. President Floyd was contacted and then he contacted the Board of Curators to compromise. Missouri State University shall offer engineering programs and doctorate programs only in cooperation with the University of Missouri. The name change from Southwest Missouri State to Missouri State University will not allow any additional state funding.

e Resource Requirements for MBA, Bioengineering and Toomey Hall.

MBA: After the last academic council meeting and a meeting with Vice President Lehmkuhle it was decided that we needed to charge a professional school fee for an MBA. That means \$500/student credit hour in-state, and \$800/student credit hour for out of state tuition. Plugging those numbers in will give us a higher revenue that we anticipated.

Bioengineering Degree Program: This is an important program with Washington University being the largest, and the

program is growing nationally. The proposed BS degree in Bioengineering shows the use of institutional resources during the first three years, and then no additional need for institutional resources during the following years. The costs the first three years is mostly equipment. I have personally asked for \$500,000 from Lehmkuhle to get this program started and some of the equipment bought. Lehmkuhle didn't commit, but he thinks that there would not be a problem with state helping.

Toomey Hall: We have current gifts of \$7.5 million and \$3.5 million from a mini-campaign. Then \$10 million UM bond for the rest of the money. It is possible that we will receive \$2 million from the Department of Economic Development. If we do, the \$2 million can be used to make the payments on the bond for 3 years.

C. PROVOST'S REPORT - Harvest Collier

Enrollment: We are up in enrollment as compared to last year. This year we have 5,006 with last years number being 4,926, that is up 1.6%.

Research: In research, Wayne says that we have \$17.3 million in awards with 1.1% up from 04 with \$17.1 million as of this time last year.

Under-graduate and Graduate Studies: A system is being implemented on Academic Alert to replace the early warning paper system that we are working on right now that will roll out in the fall.

UMR NCA Self-Study Team - being established in order to begin planning for the campus's preparation for its next 10-year accreditation evaluation. The team will consist of representatives from each campus component.

Dates to remember: April 13, 2005 is UMR Undergraduate Research Day. We encourage all departments to encourage all students to participate. OURE applications for 05-06 is April 1 - if students want to participate.

School of Extended Learning: Enrollment is up from 397 in 04 to 493 in 05.

Information Technology: 297 phones currently on VOIP core, and will continue on that schedule.

3 REPORTS OF STANDING AND SPECIAL COMMITTEES

a Budgetary Affairs – Motion that **Academic Council moves**

that Budgetary Affairs will host a series of open forums on Resources Allocation Management. Moved to vote and motion passed by voice vote.

b Curricula - Motion for DC 0143, School of Engineering, Basic Engineering was approved by voice vote and passed. Motion for degree change was voted on and passed. Motion for CC forms to be approved were voted on and passed.

c Student Affairs - no report.

d Public Occasions - Referred to the committee part of President Floyd's Strategic Action Plan that all campuses be brought to a common academic calendar. Still issues with it so there will be a continuance on it.

e Administrative Review Committee - Third year we have done this. This year we plan to review Provost Shah, VC Robinson, VC Eggert and Dean Mitchell. Reviews will be sent soon and hopefully have the results about the end of March. Motion: **Academic Council moves to approve the plan to review Shah, Robinson, Eggert and Mitchell, in addition to the next level main administrators (short forms) who report to those people.** Motion was seconded, discussion, and approved by voice vote and passed.

4 OLD BUSINESS

a Report on financing of new initiatives - Robert Mitchell covered this in Chancellor's Report.

5 NEW BUSINESS AND ANNOUNCEMENTS

a Staff Council: No report

b Student Council: Nathan Mundis
Nathan read the letter listed below to be entered into the minutes:

February 16, 2005

Dear Academic Council:

Student Council hereby suspends our participation in the Information Technology/Computing Committee (ITCC) until such a time as we are satisfied that this committee is fulfilling the charge given to it in the University of Missouri – Rolla Faculty Bylaws and new committee leadership is elected. Our participation in this committee so far has amounted to a waste of the students' time and resources as well as much frustration.

This committee is charged to: “advise the Provost and the Chief Information Officer in the formulation and implementation of information technology (IT) and computing activities on campus.” Currently, in the opinion of the student body, this charge is not being met. One issue of major concern to the student body is the use of revenues collected through the IT Fee. Currently, there are 1.4 million dollars in IT Fee revenue not being spent by the CIO as he is waiting on ITCC input into how to best upgrade CLCs to meet the needs of both the students and faculty. This issue has not been discussed at a single ITCC meeting that Student Council has attended this academic year. This is just one example of how the ITCC is not meeting the charge given to it in the Faculty Bylaws.

Instead of giving input into IT and computing activities on campus, the majority of an ITCC meeting is spent nitpicking the allocation of the IT budget into different accounts than have been used in the past. At the November 2004 meeting, the ITCC Chair asked the student body representatives present if the student body was concerned with this distribution. Nathan Mundis, Vice President External Affairs responded that the CIO had presented his budget to Student Council and not one concerned or dissenting comment was made, thus the student body was content with the use of the IT Fee revenue. After this meeting, the ITCC Chair clandestinely solicited opinion from the other student council officers as to whether Mr. Mundis in fact represented the voice of the student body, asking the question, “Is there anything else one might say in describing what Nathan Mundis seems to view as student acceptance of the CIO transferring these funds?” At the Next meeting in January, Student Body President, Julia Rosemann attended for the expressed purpose of reiterating the student perspective about the transfer of this revenue. Sadly, the topic was again discussed at the February meeting while other topics, such as “computing activities on campus,” were mostly neglected.

Because of the lack of progress made by the ITCC, because of the ITCC’s concern with accounting details that do not affect the amount of input the ITCC has on computing activities, and because of the surreptitious actions taken by the committee’s chair to circumvent the government of the student body; student council reiterates that it is forthwith withdrawing its participation in ITCC until such a time as new leadership is elected and the committee begins to progress toward fulfilling its duty to the University.

Sincerely,

Julia C. Rosemann and Nathan L. Mundis
President Vice President External Affairs
UMR Student Council UMR Student Council

c Council of Graduate Students: No report

d Council of Graduate Students - no report.

Mike Hilgers adjourned the meeting at 3:05 p.m.

Respectfully submitted,
(electronically submitted, 04/08/2005)
Kurt Kosbar, Secretary

***Minutes of the Academic Council are considered official notification and documentation of actions approved.**

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Memo To: Academic Council
From: UMR Campus Curriculum Committee Meeting
RE: February 3, 2005 Meeting

The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.

Approved DC forms:

DC 0143, School of Engineering, Basic Engineering, approved effective Fall 2005. A proposal to modify the current curriculum for the Bachelor of Science in Interdisciplinary Engineering.

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 5625, TCom 331, Technical Editing. New course approved effective Fall 2005.

Catalog Description: The principles and practices of technical editing, including usability, audience analysis, contextual editing, the conventions of scientific and technical communication, and the role of the editor in document development and publication. Students will also learn standard practices of copy editing and the use of style guides.

Credit Hours: 3 hour Lecture

Prerequisites: TCom 65 and TCom 240

CC 5632, TCom 361, History of Technical Communications. New course approved effective Fall 2005.

Catalog Description: Introduction to the roles of the technical communicator and the technologies of communication from ancient cultures to the present.

Credit Hours: 3 hour Lecture

Prerequisites: TCom 65 and TCom 240

CC 5639, TCom 404, Teaching of Technical Communication. New course approved effective Fall 2005.

Catalog Description: Provides a theoretical and pedagogical foundation for teaching workshops and undergraduate courses in technical communication. Includes both traditional and electronic settings.

Credit Hours: 3 hour Lecture

Prerequisites: None



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CC 5641, TCom 411, International Technical Communication. New course approved effective Fall 2005.

Catalog Description: Examines complexity of communication of technical information worldwide. Includes topics such as graphics, icons, symbols; user interface design; cross-cultural communication.

Credit Hours 3 hour Lecture

Prerequisites: None

CC 5644, TCom 450, Information Management in Technical Communication. New course approved effective Fall 2005.

Catalog Description: Study of and practice in directing projects related to such areas as multimedia, web sites, strategic planning, newsletters. Includes writing planning documents, selecting team members, synchronizing assignments, testing prototypes, and issuing a final report.

Credit Hours: 3 hour Lecture

Prerequisites: None

CC 5909, SysEng 433, Distributed Systems Modeling. New course approved effective Fall 2005.

Catalog Description: This course will discuss issues related to distributed systems architecting, modeling, analysis and representation, with specific focus on discrete-part manufacturing domain. Distributed modeling techniques and other model decomposition methods using simulation modeling and scalability issues will also be addressed.

Credit Hours: 3 hour Lecture

Prerequisites: None

CC 5932, Chemistry 225, Organic Chemistry I. The following changes are approved effective Fall 2005.

Course Title – Proposed: Bioorganic Chemistry I

Catalog Description – Present: Study of the chemistry of organic compounds from the standpoint of theory of reaction mechanisms and rates involving electronic and steric considerations.

Proposed: This course consists of four parts: 1) structure, bonding, and nomenclature; 2) hydrocarbons (alkanes, alkenes, and alkynes), conjugated systems, ultraviolet and visible spectroscopy, stereochemistry, resonance, and molecular orbital theory; 3) substitution and elimination reactions; 4) identification of organic compounds via infrared and NMR spectroscopy.

Credit Hours – Present: 3 hour Lecture

Proposed: 4 hour Lecture

Prerequisites – Present: Chem 8 or 14

Proposed: Chem 1, 2, 3; or Chem 5



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CC 5933, Chemistry 227, Bioorganic Chemistry II. New course approved effective Fall 2005.

Catalog Description: This course consists of three parts: 1) aromaticity and reactions of aromatic compounds; 2) carbonyl compounds, amines and their reactions; 3) bioorganic compounds that include carbohydrates, aminoacids, peptides, proteins, lipids, nucleosides, nucleotides, and nucleic acids.

Credit Hours: 4 hour Lecture

Prerequisites: Chem 225

CC 5934, Chemistry 363, Intermediary Metabolism. The following change has been approved effective Fall 2005.

Prerequisites – Present: Chem 361

Proposed: Chem 361 or Chem 225, Chem 227

CC 5936, Computer Science 448, Introduction to Evolutionary Computation. New course approved effective Fall 2005.

Catalog Description: Introduces evolutionary algorithms, a class of stochastic, population-based algorithms inspired by natural evolution theory (e.g., genetic algorithms), capable of solving complex problems for which other techniques fail. Students will implement course concepts and tackle science, engineering, and/or business problems in the form of research projects.

Credit Hours: 3 hour Lecture

Prerequisites: Cmp Sc 328 or Cmp Sc 347

CC 5937, Computer Science 158, Discrete Mathematics for Computer Science. The following changes are approved effective Summer 2005.

Catalog Description – Proposed: A rigorous treatment of topics from discrete mathematics which are essential to computer science. Principal topics include: formal logic (propositional & predicate), proof techniques, mathematical induction, program correctness, sets, combinatorics, probability, relations, functions, matrices, graph theory and graph algorithms.

Prerequisites – Present: Sophomore standing

Proposed: Cmp Sc 053 or at least sophomore standing

CC 5938, Physics 351, Computational Physics. New course approved effective Fall 2005.

Catalog Description: An introduction modern computer simulations for solving physics problems. The course will be project-oriented with examples including planetary motion, chaotic dynamics, quantum scattering, structure of atoms and clusters, molecular dynamics, and Monte-Carlo simulations.

Credit Hours: Lecture: 3 Lab: 1 Total: 4

Prerequisites: Phys 107, or Phys 207; Math 204; programming experience



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CC 5939, History 383, American Diplomatic History. The following changes are approved effective Fall 2005.

Course Title – Proposed: U.S. Diplomatic History to World War II

Catalog Description – Proposed: This course is a history of American foreign relations, broadly conceived, from the War for Independence to WWII. Among other things, it deals with the diplomacy of survival, of expansion and of economic and political hegemony.

CC 5940, Political Science 383, American Diplomatic History. The following changes are approved effective Fall 2005.

Course Title – Proposed: U.S. Diplomatic History to World War II

Catalog Description – Proposed: This course is a history of American foreign relations, broadly conceived, from the War for Independence to WWII. Among other things, it deals with the diplomacy of survival, of expansion and of economic and political hegemony.

CC 5944, Computer Engineering 111, Introduction to Computer Engineering. The following changes are approved effective Fall 2005.

Catalog Description – Proposed: Binary arithmetic, Boolean algebra, logic and memory elements, computer organization.

Prerequisites – Present: Cmp Sc 53, 73, or 74. Students should enroll in Cp Eng 111 and Cp Eng 112

Proposed: Preceded or accompanied by cmp sc 53, 73, or 74. Cp Eng 112 is also a co-requisite for Cp Eng and Elec Eng majors.

CC 5960, Chemistry 005, General Chemistry for Engineers. The following change has been approved effective Fall 2005.

Course Title – Proposed: Accelerated General Chemistry

CC 5962, IST 141, Information Systems. The following change is approved effective Fall 2005.

Catalog Description – Proposed: This course surveys information/systems technology for the management of enterprise information as a resource. Topics include elements of system design life cycle & management (using MS Project), database concepts and decision support (using MS Access), and an introduction to Enterprise Resource Planning concepts. Projects are required.

CC 5963, IST 202, Cooperative Training in Information Science & Technology. New course approved effective Fall 2005.

Catalog Description: On-the-job experience gained through cooperative education with industry with credit arranged through departmental co-op advisor. Grade received depends on quality of reports submitted and work supervisor's evaluation.

Credit Hours: 0-6



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Prerequisites: Completed 30 hours toward degree

CC 5964, IST 302, Internship. New course approved effective Fall 2005.

Catalog Description: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

Credit Hours: 0-6

Prerequisites: Completed 30 hours toward degree

CC 5965, BUS 202, Cooperative Training in Business. New course approved effective Fall 2005.

Catalog Description: On-the-job experience gained through cooperative education with industry with credit arranged through departmental co-op advisor. Grade received depends on quality of reports submitted and work supervisor's evaluation.

Credit Hours: 0-6

Prerequisites: Completed 30 hours toward degree

CC 5966, BUS 302, Internship. New course approved effective Fall 2005.

Catalog Description: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

Credit Hours: 0-6

Prerequisites: Completed 30 hours toward degree.

CC 5967, IDE 106, Design Perceptions. New course approved effective Fall 2005.

Catalog Description: This course examines issues in interdisciplinary research and design through visits to research labs and industrial sites, interviews with researchers and professional engineering staff, and a team case study. Communications skills, teamwork, and personal portfolios will be emphasized.

Credit Hours: 1 hour Lecture

Prerequisites: IDE 105

CC 5970, Civil Engineering 323, Architectural Engineering 323, Classical and Matrix Methods of Structural Analysis. The following changes have been approved effective Fall 2005.

Course Title – Proposed: Computer Methods of Structural Analysis

Catalog Description – Proposed: Force and displacement matrix methods and computer methods applied to structural analysis. Analysis of indeterminate structures such as continuous beams, and two and three dimensional frames and trusses. Analysis of indeterminate structures involving temperature and support settlements effects using computer methods formulation.



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CC 5974, SMIS 111, Entrepreneurial Scholars. New course approved effective Fall 2005.
Catalog Description: Members of the class will explore innovation and entrepreneurial strategies through interdisciplinary team collaboration.
Credit Hours: .5 hour Lecture
Prerequisite's: None

For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.

Approved EC forms:

EC 1596, Bus 301, Marketing Strategy, approved effective Fall 2005.
Course Description: Identification and analysis of strategic managerial marketing issues. Integration of marketing concepts and theories through simulation and case analysis. Ethical and international applications.
Credit Hours: 3 hour Lecture
Prerequisites: BUS 240 or Eng Mg 251

EC 1617, English 301, Hemingway & the Paris Expatriates, approved effective Fall 2005.
Course Description: Hemingway's A Movable Feast, will serve as a core text for a course in the Paris Expatriate writers of the 1920's – Fitzgerald, Joyce, Pound, Hemingway, Kay Boyle, J. Stein, T.S. Eliot.
Credit Hours: 3 hour Lecture
Prerequisites: English 20, semester of college literature

EC 1618, English 301, The Epic Hero in World Literature, approved effective Fall 2005.
Course Description: Covers the hero in epics such as Gilgamesh, The Ramayana, The Mahabharata, The Iliad, The Odyssey, The Aeneid, The Shahname; includes cultural backgrounds and literary approaches.
Credit Hours: 3 hour Lecture
Prerequisites: English 20, semester of college literature

EC 1619, English 301, History of Technical Communication, approved effective Fall 2005.
Course Description: Introduction to the roles of the technical communicator and the technologies of communication from ancient cultures to the present.
Credit Hours: 3 hour Lecture
Prerequisites: English/Technical Communication 240 or 260 or 65.

EC 1620, Music 301, Symphonic Winds, approved effective Fall 2005.
Course Description: An auditioned ensemble. Students perform music for wind ensemble and large bands. Music from 1400-present is performed in a concert setting.
Credit Hours: 1 hour Lab



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Prerequisites: Consent of instructor – audition only

EC 1621, History 301, The U.S. in Vietnam, approved effective Fall 2005.

Course Description: Through lecture, film and readings, this course examines the American experience in the Vietnam War. The course covers the causes and consequences of the war as well as its effect on those who fought and on American society as a whole. There is a special emphasis on the realities of combat and the war's impact on individual Americans.

Credit Hours: 3 hour Lecture

Prerequisites: Hist 176

EC 1623, English 301, IST 301, Introduction to Multimedia Authoring, approved effective Fall 2005.

Course Description: Through the use of current multimedia tools, this course introduces the technical and rhetorical skills necessary for designing and developing interactive media.

Credit Hours: 3 hour Lecture

Prerequisites: English/Technical Communication 240 or 260 or 65

EC 1629, Biological Sciences 401, Computer Science 401, Advanced Bioinformatics, approved effective Fall 2005.

Course Description: Advanced current topics will be covered, with underlying focus on biological data complexity, biological databases, and algorithm implementation and development. Student will develop skills required to use and design novel bioinformatics tools. Includes lectures, discussions of literature, and programming exercises.

Credit Hours: 3 hour Lecture

Prerequisites: Bio Sci 311 or Comp Sci 311

EC 1630, English 201, Introduction to Journalism, approved effective Fall 2005.

Course Description: An overview of print and electronic journalism, with emphasis on basic reporting, news writing, interviewing and information gathering techniques.

Credit Hours: 1 hour Lecture

Prerequisites: English 20

EC 1634, Biology 101, Introduction to Environmental Science, approved effective Spring 2006.

Course Description: An introduction to environmental science, with an emphasis on biological aspects of current environmental problems. Topics range from chemical Toxicity to global climate change. Environmental challenges facing local species and ecosystems will be emphasized.

Credit Hours: 3 hour Lecture

Prerequisites: None



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EC 1636, IST 301, Database Applications in Business, approved effective Fall 2005.

Course Description: Design, development and implementation of application software typical to the modern business environment utilizing popular commercial database management systems such as Oracle and Access. Focus given to business case modeling, requirement analysis, database design, and implementation challenges.

Project oriented.

Credit Hours: 3 hour Lecture

Prerequisites: IST 243

EC 1637, Computer Engineering 301, Electrical Engineering 301, Mechanical Engineering 301, Systems Engineering 301, Computational Intelligence, approved effective Fall 2005.

Course Description: Introduction to Computational Intelligence, Artificial Neural Networks, Evolutionary Computing, Swarm Intelligence, Fuzzy Systems, and Hybrid Systems. Evolutionary Computing would be briefly introduced in order to utilize their techniques to train ANNs.

Credit Hours: 3 hour Lecture

Prerequisites: Statistics 217

EC 1640, Engineering 101, Experiential Design, approved effective Fall 2005.

Course Description: Members of the class will learn modern design methods and will have the opportunity to gain hands-on experience through team projects.

Credit Hours: .5 hour Lecture

Prerequisites: None

EC 1641, Electrical Engineering 401, Advanced RF and Time Domain Measurements, approved Fall 2005.

Course Description: Advanced measurement techniques and instrumentation: Oscilloscopes (Real time and sampling, A/D conversion errors, Probing, Jitter, Noise), Spectrum Analyzer (concepts applications), Network Analyzer (concepts, calibration), Impedance measurements. Lab experiments are a main part of this class.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Graduate Standing

EC 1642, Civil Engineering 301, Introduction to Traffic Simulation Models, approved effective Fall 2005.

Course Description: Fundamentals of system simulation, components of a simulation model, traffic flow simulation approaches, application of traffic flow simulation software to intersections, arterials, work zones and networks, output analysis, and simulation of intelligent Transportation Systems (ITS).

Credit Hours: 3 hour Lecture



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Prerequisites: Stat 213 or 215, CE 211, preceded or accompanied by CE 353

EC 1643, Civil Engineering 301, Fundamentals of Traffic Flow Theory, approved effective Spring 2006.

Course Description: This course will cover fundamentals of traffic flow, traffic flow characteristics, statistical distributions of traffic flow parameters, traffic stream models, car following models, continuum flow models, shock wave analysis, queuing analysis, traffic flow models for intersections, network flow models and control, traffic simulation.

Credit Hours: 3 hour Lecture

Prerequisites: Stat 213 or 215, CE 211, preceded or accompanied by CE 353

EC 1644, Civil Engineering 401, Traffic Simulation and Modeling, approved effective Fall 2005.

Course Description: Fundamentals of system simulation, components of a simulation model, traffic flow simulation approaches, traffic flow simulation software, building simulation models, verification and validation of a simulation model, output analysis, variance reduction techniques, role of simulation in Intelligent Transportation Systems (ITS) and traffic management.

Credit hours: 3 hour Lecture

Prerequisites: Preceded or accompanied by CE 353 and knowledge of statistics; graduate standing

EC 1645, Civil Engineering 401, Advanced Theories of Traffic Flow, approved effective Spring 2006.

Course Description: This course will cover advanced theories of traffic flow, traffic flow characteristics, statistical distributions of traffic flow parameters, traffic stream models, car following models, continuum flow models, shock wave analysis, queuing analysis, traffic flow models for intersections, network flow models and control, traffic simulation.

Credit Hours: 3 hour Lecture

Prerequisites: Preceded or accompanied by CE 353 and knowledge of statistics; graduate standing

J. Keith Nisbett, Chair
UMR Campus Curricula Committee

ACADEMIC COUNCIL REPORT

**Y. T. SHAH
PROVOST AND
CHIEF EXECUTIVE OFFICER**

February 17, 2005



ENROLLMENT MANAGEMENT



**UMR - Enrollment Management Services
WEEKLY ENROLLMENT REPORT**

			Fall 2000 (ADMs) 2/8/2000	Fall 2001 (PS Conv) 2/8/2001	Fall 2002 (PS) 2/8/2002	Fall 2003 (PS) 2/8/2003	Fall 2004 (PS) 2/8/2004	Fall 2005 (PS) 2/8/2005
FRESHMEN	Prospects	Beg. Fr. Prospects	139181	42816	65154	42349	24106	16506
		HS Jr. Prospects	10454	10704	10296	7384	4361	4395
	Inquiries	Beg. Fr. Inquiries	19030	9071	12525	10643	9402	9408
		HS Jr. Inquiries	1139	677	5096	3773	3379	2825
	Applications		1612	1509	1683	1614	1668	1751
		Pending	265	245	159	108	106	126
		Withdrawn Apps	2	0	1	10	0	0
	Admitted		1298	1231	1481	1459	1525	1584
		Cancelled Admits	11	7	12	8	15	9
		Denied	47	33	42	37	37	41
Enrolled		0	0	0	0	0	0	
TRANSFERS	Inquiries		623	424	446	462	850	535
	Applications		182	154	199	187	173	169
		Pending	65	80	86	68	63	61
		Withdrawn Apps	8	0	0	0	0	0
	Admitted		104	73	110	119	104	106
		Cancelled Admits	1	0	0	0	1	0
		Denied	5	1	3	0	6	2
Enrolled		0	0	0	0	0	0	
GRADUATES	Inquiries		5652	3406	2598	1833	878	883
	Applications		1279	1180	2332	1819	851	795
		Pending	1037	792	1145	1055	497	460
		Withdrawn Apps	0	0	3	3	1	1
	Admitted		188	320	666	546	243	227
		Cancelled Admits	0	0	0	0	0	0
	Denied	54	68	218	215	110	107	
Enrolled		0	0	0	0	0	0	
ORIENTATION	Freshmen	Total Reservations	N/A	N/A	175	275	395	439
	Transfer	Total Reservations	N/A	N/A	0	0	26	14
HOUSING AGREEMENTS		Upperclassmen	0	0	0	0	0	0
		Beginning Freshmen	N/A	N/A	N/A	N/A	397	485
		New Transfers	0	0	0	0	0	0
		TOTAL	0	0	0	0	0	0
4TH WEEK CENSUS		Beginning Freshmen	696	715	815	897	877	0
		New Transfers	195	231	261	281	288	0
		Graduates	348	395	423	348	402	0
		TOTAL	1,239	1,341	1,499	1,526	1,567	0

Unofficial Internal Planning Data - not intended for public release.

ADMs - data from ADMs system
PS Conv - PeopleSoft conversion data
PS - data from PeopleSoft system



UNIVERSITY OF MISSOURI-ROLLA
ENROLLMENT GRID

FEBRUARY 8, 2005 - SPRING

END OF 4TH WEEK

	FR M	FR F	SO M	SO F	JR M	JR F	SR M	SR F	TOTAL UG	MAST M	MAST F	DOCT M	DOCT F	TOTAL GRAD	TOTAL MALE	TOTAL FEMALE	TOTAL	YEAR AGO
ROLLA CAMPUS																		
A&S UND	10	6	7	2	4	1	9	4	43	0	0	0	0	0	30	13	43	61
BIO SC	6	14	9	21	12	22	4	26	114	4	13	0	0	17	35	96	131	128
CHEM	4	4	2	2	3	5	6	11	37	4	2	35	20	61	54	44	98	104
CP SC	53	2	40	2	57	9	81	4	248	49	10	11	4	74	291	31	322	321
ENGL	1	3	4	7	4	6	8	13	46	0	0	0	0	0	17	29	46	38
HIST	4	1	5	9	12	6	12	10	59	0	0	0	0	0	33	26	59	74
MATH	2	3	9	3	6	5	10	18	56	7	6	16	4	33	50	39	89	81
PHIL	0	0	1	0	1	0	0	0	2	0	0	0	0	0	2	0	2	4
PHYS	4	2	4	0	11	1	10	1	33	7	2	21	9	39	57	15	72	63
PSYCH	4	3	6	11	5	11	7	22	69	0	0	0	0	0	22	47	69	75
TECH COM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1
A&S	88	38	87	57	115	66	147	109	707	71	34	83	37	225	591	341	932	949
AERO E	0	0	14	3	26	9	53	10	115	12	1	1	1	15	106	24	130	121
ARCH E	1	0	5	3	12	6	34	13	74	0	0	0	0	0	52	22	74	58
CHEM E	1	0	4	5	21	16	47	17	111	11	3	15	4	33	99	45	144	149
CIV E	0	0	11	4	49	9	106	23	202	17	10	20	11	58	203	57	260	299
COMP E	1	0	14	1	40	2	76	3	137	19	4	6	1	30	156	11	167	182
ELEC E	2	1	34	3	79	3	143	19	284	40	4	47	5	96	345	35	380	446
EMGT	0	0	12	4	20	12	55	22	125	24	8	12	7	51	123	53	176	224
E MECH	0	0	0	0	0	0	0	0	0	0	0	2	1	3	2	1	3	5
ENGR UND	1	0	3	0	9	1	4	0	18	0	0	0	0	0	17	1	18	20
ENV R E	0	0	2	0	2	3	0	2	9	10	6	0	0	16	14	11	25	18
MANF E	0	0	0	0	0	0	0	0	0	20	4	0	0	24	20	4	24	21
MECH E	2	0	33	3	117	11	211	24	401	54	8	39	5	106	456	51	507	468
SYS E	0	0	0	0	0	0	0	0	0	6	1	0	0	7	6	1	7	2
FR ENGR	386	79	250	55	52	8	6	2	838	0	0	0	0	0	694	144	838	736
ENGR	394	80	382	81	427	80	735	135	2314	213	49	142	35	439	2293	460	2753	2749
BUS&MS	6	10	17	8	16	11	28	20	116	0	0	0	0	0	67	49	116	103
ECON	0	0	2	2	0	0	2	2	8	0	0	0	0	0	4	4	8	18
IS&T	7	0	13	2	20	4	23	4	73	20	9	0	0	29	83	19	102	90
MGT SYS	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	14
M&IS UND	1	0	2	1	4	1	4	1	14	0	0	0	0	0	11	3	14	21
M&IS	14	10	34	13	40	16	58	27	212	20	9	0	0	29	166	75	241	246
CER E	1	0	6	6	5	10	11	4	43	4	6	13	4	27	40	30	70	62
GEOL E	0	0	8	1	7	5	12	3	36	3	0	5	1	9	35	10	45	37
GEO & GP	5	5	6	5	3	6	17	9	56	6	3	9	4	22	46	32	78	70
MET E	1	1	7	1	9	3	18	3	43	10	3	9	4	26	54	15	69	90
M&M UND	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1
MIN E	1	1	16	4	23	1	22	4	72	1	0	9	2	12	72	12	84	62
NUCL E	1	0	16	3	20	7	21	7	75	4	1	2	1	8	64	19	83	59
PETR E	1	0	3	0	3	0	7	1	15	3	1	3	0	7	20	2	22	24
FR ENGR	33	9	27	7	5	0	1	0	82	0	0	0	0	0	66	16	82	89
MEER	43	16	90	27	75	32	109	31	423	31	14	50	16	111	398	136	534	494
NON DG	16	19	0	1	2	0	8	2	48	3	5	0	0	8	29	27	56	64
CAMPUS TOTAL	555	163	593	179	659	194	1057	304	3704	338	111	275	88	812	3477	1039	4516	4502



UNIVERSITY OF MISSOURI-ROLLA
ENROLLMENT GRID

FEBRUARY 8, 2005 - SPRING

END OF 4TH WEEK

	FR	FR	SO	SO	JR	JR	SR	SR	TOTAL	MAST	MAST	DOCT	DOCT	TOTAL	TOTAL	TOTAL	TOTAL	YEAR
	M	F	M	F	M	F	M	F	UG	M	F	M	F	GRAD	MALE	FEMALE		AGO
EXTENDED LEARNING																		
AERO E	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	0	2	1
CIV E	0	0	0	0	0	0	0	0	0	29	5	0	0	34	29	5	34	31
COMPE	0	0	0	0	0	0	0	0	0	4	1	0	0	5	4	1	5	2
CP SC	0	0	0	0	0	0	0	0	0	5	1	0	0	6	5	1	6	3
ELEC E	0	0	0	0	0	0	0	0	0	8	0	0	0	8	8	0	8	9
E MGT	0	0	0	0	0	0	0	0	0	62	21	8	1	92	70	22	92	96
E MECH	0	0	0	0	0	0	0	0	0	3	1	0	0	4	3	1	4	4
ENVRE	0	0	0	0	0	0	0	0	0	1	2	0	0	3	1	2	3	1
GEOL E	0	0	0	0	0	0	0	0	0	6	2	0	0	8	6	2	8	7
GEO & GP	0	0	0	0	0	0	0	0	0	13	0	0	0	13	13	0	13	9
IS&T	0	0	0	0	0	0	0	0	0	5	0	0	0	5	5	0	5	6
MANF E	0	0	0	0	0	0	0	0	0	10	0	0	0	10	10	0	10	6
MATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
MECHE	0	0	0	0	0	0	0	0	0	9	1	0	0	10	9	1	10	7
MIN E	0	0	0	0	0	0	0	0	0	17	1	0	0	18	17	1	18	15
SYSE	0	0	0	0	0	0	0	0	0	120	27	0	0	147	120	27	147	127
NON DG	34	36	2	0	0	0	1	0	73	38	14	0	0	52	75	50	125	99
EXTENDED TOTAL	34	36	2	0	0	0	1	0	73	332	76	8	1	417	377	113	490	424
EXTENDED TOTAL	34	36	2	0	0	0	1	0	73	332	76	8	1	417	377	113	490	424
UMR TOTAL	589	199	595	179	659	194	1058	304	3777	670	187	283	89	1229	3854	1152	5006	4926

NOTE: 78 CO-OP students are included in the campus total
44 CDIS students are included in the distance total
111 EEC students are included in distance total

63 included one year ago
37 included one year ago
91 included one year ago



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**University of Missouri - Rolla
Enrollment Statistics
Spring Semester 2005
February 8, 2005**

	WS2003	WS2004	SP2005	Change	
On Campus:					
Close of Registration	4,334	4,340	4,304	-36	-0.8%
End of First Week	4,436	4,447	4,454	7	0.2%
End of Second Week	4,478	4,514	4,501	-13	-0.3%
End of Third Week	4,481	4,500	4,510	10	0.2%
End of Fourth Week	4,476	4,502	4,516	14	0.3%
Engineering Education Center:					
Close of Registration	81	76	105	29	38.2%
End of First Week	88	78	115	37	47.4%
End of Second Week	88	80	114	34	42.5%
End of Third Week	88	91	111	20	22.0%
End of Fourth Week	87	91	111	20	22.0%
Distance Education:					
Close of Registration	288	274	290	16	5.8%
End of First Week	314	278	357	79	28.4%
End of Second Week	331	300	362	62	20.7%
End of Third Week	339	306	362	56	18.3%
End of Fourth Week	341	333	379	46	13.8%
TOTAL:					
Close of Registration	4,703	4,690	4,699	9	0.2%
End of First Week	4,838	4,803	4,926	123	2.6%
End of Second Week	4,897	4,894	4,977	83	1.7%
End of Third Week	4,908	4,897	4,983	86	1.8%
End of Fourth Week	4,904	4,926	5,006	80	1.6%

RESEARCH



Proposals Awarded during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	47,985	114,495	0	0	0	0	0						162,480
Chem.	401,907	7,623	0	701,475	123,555	78,800	80,000						1,393,360
Comp. Sci.	98,791	571,009	12,000	0	179,968	0	0						861,767
Engl. & Tech. Comm.	0	0	0	0	0	0	0						0
Hist./PS	5,000	0	2,224	0	0	0	0						7,224
Math/Stat	21,317	0	0	51,653	29,630	0	0						102,600
Phil.	0	0	0	0	0	0	0						0
Phys.	122,612	7,000	93,264	35,000	28,000	0	90,000						375,876
Psych.	64,787			0	0	0	0						64,787
A&S Totals	762,398	700,127	107,488	788,128	361,153	78,800	170,000	0	0	0	0	0	2,968,094
Materials Sci. & Eng.	238,527	327,132	72,486	268,855	282,545	536,868	246,835						1,973,247
Mining & Nuclear Eng.	144,931	1,151,344	149,396	29,916	238,000	15,486	3,225						1,732,298
Geol. Sci. & Engr.	0	281,170	10,000	135,000	85,638	79,640	0						591,448
Dean's Office	28,750	61,164	0	0	0	0	0						89,914
SoMEER	412,208	1,820,809	231,882	433,771	606,183	631,994	250,060	0	0	0	0	0	4,386,907
Basic Engr.	0	0	2,112	0	12,065	0	0						14,177
Chem & Biol. Engr.	0	0	40,000	0	0	0	0						40,000
Civil, Arch. & Env. Engr.	858,419	200,605	70,112	153,745	305,075	173,935	191,250						1,953,141
ECE	1,837,273	300,302	58,398	423,251	124,620	211,402	77,597						3,032,843
Engr. Mgt.	97,181	279,394	45,000	0	109,458	150,780	0						681,812
MAEM	104,006	657,993	458,541	678,475	52,933	12,000	9,000						1,972,947
SOF Totals	1,494,879	1,438,293	674,163	1,205,471	804,151	1,413,117	277,847	0	0	0	0	0	7,894,921
Econ. & Finance	10,000	0	1,779	0	0	0							11,779
Business Admin.	1,254,998	0	60,000	58,470	116,700	54,350							1,544,518
Info Sci. & Tech.	42,100	163,697	0	0	0	0							205,797
SMIS	1,307,098	163,697	61,779	58,470	116,700	54,350	0	0	0	0	0	0	1,762,094
Enrollment Mgt													0
International Affairs													0
Minority Affairs													0
Other		10,723				10,000							20,723
RPDC	271,989					54,592							326,581
KUMR		64,116				60,278							124,394
Grand Totals	5,650,572	4,197,764	1,075,313	2,535,840	1,688,186	1,438,131	697,907	0	0	0	0	0	17,283,714

+1.1% compared to FY 04: \$17.1 M

Total: \$17.3 M



Proposals Submitted during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	2,019,716	307,295	349,735	53,032	844,748	214,453							3,788,979
Chem.	1,049,738	922,433	1,915,513	666,475	578,814	113,000	1,122,083						6,368,056
Comp. Sci.	1,229,161	1,505,721	0	0	1,058,224	899,334	1,123,479						5,815,918
Engl. & Tech. Comm.	0	8,210	0	0	0	0	132,478						140,688
Hist./PS	0	0	2,224	0	0	0	0						2,224
Math/Stat	0	0	0	400,636	1,410,072	0	0						1,810,708
Phil.	0	0	0	0	0	0	0						0
Phys.	1,071,015	81,178	820,309	417,423	0	105,010	268,051						2,762,985
Psych.	0	0	0	0	93,750	0	249,444						343,194
Dean's Office	0	246,983	0	0	0	0	0						
A&S Totals:	5,369,630	3,071,819	3,087,781	1,537,566	3,985,608	1,331,797	2,895,535	0	0	0	0	0	21,279,737
Materials Sci. & Eng.	90,272	904,331	2,255,660	2,672,784	6,926,607	1,569,385	1,776,263						16,195,302
Mining & Nuclear Eng.	1,236,959	843,522	296,396	172,902	1,128,010	374,170	757,343						4,809,303
Geol. Sci. & Engr.	1,282,027	5,001	586,286	0	219,010	181,844	130,218						2,404,387
Dean's Office	0	258,647	0	0	0	0	0						258,647
SoMEER	2,609,258	2,011,501	3,138,342	2,845,686	8,273,627	2,125,399	2,663,824	0	0	0	0	0	23,667,638
Basic Engr.	0	595,560	333,240	0	88,485	239,602	177,598						1,434,484
Chem & Biol. Engr.	573,237	894,984	2,696,250	0	0	125,000	404,762						4,694,234
Civil, Arch. & Env. Engr.	1,195,456	1,298,199	593,113	321,627	1,629,036	276,913	731,762						6,046,106
ECE	2,180,745	1,451,226	1,135,450	463,079	831,956	3,244,772	2,060,074						11,367,303
Engr. Mgt.	800,002	1,341,687	325,597	448,445	679,346	612,204	1,135,723						5,343,005
MAEM	1,456,523	1,428,456	956,860	1,077,204	1,650,283	1,248,174	1,861,817						9,679,317
Dean's Office	0	740,948	0	0	0	0	0						740,948
SOE Totals	6,205,964	7,751,060	6,044,516	2,310,355	4,879,107	5,746,664	6,371,736	0	0	0	0	0	39,305,396
Econ. & Finance	0	12,500	16,841	0	186,250	0	0						215,591
Business Admin.	134,732	97,773	0	0	52,000	21,000	0						305,505
Info Sci. & Tech.	86,868	63,000	0	0	0	119,801	132,478						402,147
SMIS	221,601	173,273	16,841	0	238,250	140,801	132,478	0	0	0	0	0	923,244
Enrollment Mgt													0
UMR Global													0
Grad/UG Studies		308,728											308,728
Other		605					132,478						133,083
RPDC			148,592										148,592
KUMR													0
Grand Totals:	14,406,453	13,316,986	12,432,067	6,693,607	17,376,592	9,344,661	12,196,052	0	0	0	0	0	85,766,418

+21.1% compared to FY 04: \$70.8 M

Total: \$85.8 M

- ◆ NSF Major Research Instrumentation Program: 3 proposals submitted:
 - K. Henthorn: “Acquisition of an Instrumentation Suite for Multiscale Synthesis, Characterization, and Applications of Biomolecules,” \$604,478
 - Y. Ma: “Development of a Dynamic Single Cell and Single Molecule Imaging System,” \$387,469
 - K. Woelk: “Acquisition of a High-Resolution NMR Spectrometer for Specialized Studies of Reactions and Materials,” \$436,600
- ◆ Successful CAMT Gate Review Meeting by the Air Force on January 19th & 20th
- ◆ On-campus review of our Federal Plus-up proposals by Julie Jolly, new UM Director of Federal Relations, on January 13th
- ◆ Reminder: UMRB proposals due February 14th

UNIVERSITY

**UNDERGRADUATE AND
GRADUATE STUDIES**

Academic Alert System

- **The Academic Alert System-** *A process improvement that will have a positive impact on UMR student retention.*

The Academic Alert System is a web-based application that supports communication among instructors, advisors, and students in cases where students are in trouble academically. The system is currently being used by the Physics Department for testing purposes.

<https://academicalert.umr.edu>

UMR NCA Self-Study Team

- **The UMR NCA Self-Study Team** is being established in order to begin planning for the campus's preparation for its next 10-year accreditation evaluation. The Team will consist of representatives from each campus component.

Academic Advising Program

- **Outstanding Academic Advising Awards-**
Seven annual awards will be given to UMR academic advisors to recognize those who contribute to the continual improvement of UMR's educational environment.

Award nominations are due March 25, 2005

Advising Awards Luncheon- April 27, 2005

- **Developmental Advising Conference-**
Making the connection with students
March 7, 2005



Experiential Learning- Undergraduate Research Program

Two Very Important Dates to Remember and Promote

- **UMR Undergraduate Research Day, *A Celebration of Learning by Doing!* - April 13, 2005.**
The Undergraduate Research Conference is a campus-wide event that offers students a competitive forum in which to showcase the results of their research projects.
Categories include: Natural Sciences, Engineering, Humanities/Social Sciences, & Management & Information Systems
- **OURE/Experiential Learning-** UMR's OURE program has been modified to include individual and team research and a mechanism for measuring the impact the research experience has on student learning.
OURE applications for 2005-06 are due April 1, 2005



Center for Educational Research & Teaching Innovation- Faculty Workshops

- **Conducting Research in Engineering and Science Education**, facilitated by Richard Felder- *March 11, 2005.*

This workshop is intended to prepare faculty members in technical disciplines to formulate appropriate educational research questions, design effective implementation and assessment plans, and sell their ideas to potential funding sources.



SCHOOL OF EXTENDED LEARNING



School of Extended Learning

1. Distance enrollment is up from 397 in WS 2004 to 493 in WS 2005 based on the latest available third week report.
2. Development is underway of a “One Stop Shopping” web page for both credit and non-credit distance students. The partially finished product can be seen at <http://dce.umar.edu>. When completed, this page will permit students to apply for admission, enroll in classes, pay their fees, check their schedules and carry out many of the other tasks normally encountered by students. This development follows the introduction of a fully functioning electronic course evaluation system that parallels the paper system currently used for campus students.
3. On February 6, the Chinese Student Association hosted the campus and Rolla community in a celebration of the Chinese New Year (Year of the Rooster). A capacity crowd in Leach Theatre witnessed a variety of dance, cultural and musical presentations and then adjourned to the Havener Center to enjoy a Chinese buffet dinner.
4. The UMR/Rolla Community Tsunami Relief Fund raised more than \$5000.00 as of January 31, to aid the victims of the recent tsunami that devastated Southeast Asia. Many UMR individuals, including international students, worked with city officials and employees of Brewer Science to organize this successful effort.

INFORMATION TECHNOLOGY

Information Technology

Enterprise Reporting

Position Filled – Programmer Analyst – Specialist

- » Application Development Team
 - Lance Callaway
 - Begins Monday, February 8th

Networks and Computing

Voice-Over IP Telephony Project

- » 297 phones currently on VoIP core
- » Engineering Research Lab is in the process of being VoIP-enabled (completed by mid-Feb)
- » Curtis Laws Wilson Library and Electrical and Computer Engineering to follow (Feb to mid-March)

File Storage Conversion

- » Enhanced file services
- » Decreased cost of storage
- » Delivery of a higher level of reliability
- » Implementation over the next nine months
- » Current Andrew File System (AFS) to be retired from service.

Solutions Center

Desktop Enhancement

- » 654 machines have been inventoried to date for FY2005 – FY2007
- » 210 Machines have been inventoried to date for FY2005
- » 69 Desktop Enhancement machines have been deployed to date

Solutions Center “Open House”

- » Scheduled for Thursday, February 24th, 1:00 p.m. – 2:00 p.m.



U N I V E R S I T Y O F M I S S O U R I - R O L L A

To: Michael G. Hilgers, President of Academic Council
From: Gary Thomas
Date: February 14, 2005
Subject: Resource Requirements for MBA, Bioengineering and Toomey Hall

Attached are three documents requested by Academic Council concerning the resource requirements for the recently approved MBA and the Bioengineering programs and the construction of Toomey Hall. The documents on the new programs were prepared by the deans of the two schools. I know that I speak for them in saying that we welcome dialog on these and any other issues facing the campus.

We are living in very difficult times for public higher education. If UMR is to maintain its reputation for excellence in education, let alone improve that reputation, it will require the efforts of us all. A study of public higher education across the nation I believe will convince you that only the very best institutions will remain strong. Those that do not adapt to the conditions we face will slip dramatically. UMR needs programs that attract students and modern facilities in which to conduct those programs if we are to generate the resources we need to prosper.

Additional Explanation of the Budget Associated with the

Masters of Business Administration Program

February, 10, 2005

After the initial startup, the UMR MBA will be a net profit center. The budget figures delivered in the proposal approved by the curriculum committee were conservative on the income side. By that we mean tuition income was calculated at the standard UMR rate for graduate students. We also attempted not to understate the expenses by assuming that the new faculty for the MBA would be experienced Associate Professors. Given those assumptions, the first 5 years of operation project the following summary table.

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Revenues	\$444,330	\$653,370	\$653,370	\$1,306,740	\$1,306,740
Expenses	\$711,900	\$679,200	\$698,400	\$1,273,900	\$1,246,400
Profit	(\$267,570)	(\$25,830)	(\$45,030)	\$32,840	\$60,340

In deliberations with Vice-President Lehmkuhle subsequent to the proposal being approved by the curriculum committee, he recommended that the MBA students be assessed fees appropriate to a professional degree. For planning purposes, he suggested using \$500/student credit hour for in-state tuition and \$800/student credit hour for out-of-state tuition. Keeping all of the previous assumptions in place, the higher fees result in the following revised summary table.

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Revenues	\$554,250	\$818,250	\$818,250	\$1,636,500	\$1,636,500
Expenses	\$780,900	\$750,200	\$771,800	\$1,419,100	\$1,391,600
Profit	(\$226,650)	\$68,050	\$46,450	\$217,400	\$244,900

The above table illustrates that it is only the first year that actually requires start-up funding. The second year has a net positive income of \$68,050. By the end of the fourth year, the deficit start-up costs have been repaid. Beginning in the fifth year, the program will, by conservative estimates, be contributing a quarter-of-a-million dollars to UMR's budget.

It should be remembered that the above fees are all tentative. The Curators, on an annual basis, approve all residential, non-residential and professional school tuition charges. It is also anticipated that the School of Management and Information Systems will be able to contribute up to \$50,000 to the first year's deficit from carry forward.

Additional Explanation of Budget Associated with the Bioengineering Degree Program

February 9, 2005

Form FP (Financial Projections) of the proposed BS degree in Bioengineering shows the use of institutional resources during the first three years of the program and then no additional need for institutional resources during the following years.

This document has been compiled to show how the program goals may be met given the present tight financial picture.

Equipment and Support

Over the first three years, projected one-time equipment costs total \$2.35M. Although the costs are shown uniformly spread over these three years, the majority of the equipment costs are for the senior year laboratories, Biolaboratory 2 and Biolaboratory 3. Our plan is to phase in the program so that sophomore year students could begin in 2005. Thus the first time that the senior lab courses would be taught would be in Fall 2007 and Spring 2008. Therefore the costs could be delayed for one or two years if necessary.

As part of an NSF Major Research Instrumentation (MRI) proposal submitted in February 2005, the university (Provost, VP Research, School of Engineering, College of Arts and Sciences, and the School of Materials, Energy, and Earth Resources) has provided one-time support of \$175K to be used to purchase the peptide synthesizer and the dynamic light scattering instrument. [If funded this MRI would also provide funding for a confocal microscope and a biological atomic force microscope (AFM). While these are critical for the bioengineering and biological science research program, they were not listed in the bioengineering curriculum proposal due the need to keep costs down. The AFM will be used in the educational program if NSF funds it.]

We have received word that an NSF CAREER award will be received by Dr. Jee-Ching Wang in the CBE department. Dr. Wang has included \$40K in intensive computing hardware, which will help meet the needs described in the compute cluster.

During the next round for NSF Major Research Instrumentation in 2005-6, Dr. Craig Adams will lead a team proposing to acquire the three HPLCs (\$350K, \$150K, and \$70K), the Microarray Analyzer for \$179K, the Freeze Drier for \$40K, and the Capillary Electrophoresis System for \$85K. These pieces of equipment can serve both a research function and meet the education needs in the bioengineering program. We believe that this area will be a campus priority next year and that the proposal should be a strong one worthy of NSF funding.

There is a visualization center for \$80K listed under the general capital equipment in the bioengineering proposal. There presently exists a \$500K virtual reality visualization system on campus (acquired by Dr. Ming Liu under an NSF MRI that could be used for Biomolecular simulation until funds could be obtained for another visualization center. This equipment includes a fully immersive CAVE as well as display of 3D on TV monitors.

There is a 600 MHz NMR in the proposed budget for laboratory projects on determination of peptide/protein structure. The Chemistry department has available a 400 MHz NMR (lower resolution) that could be useful for some biological materials and that could serve short term in the absence of a more suitable 600 MHz machine.

It should be noted that the important capital equipment discussed above will benefit the campus in both teaching and research and the costs can be phased in over a longer time period if necessary.

Equipment Support

Dr. Craig Adams has volunteered the support of an Environmental Research Center on Emerging Contaminants technician for maintenance of equipment in return for access to some of the equipment for research purposes. This is estimated to save approximately \$20K over the first three years.

Summary of Expenditures Potentially Covered by Other Sources

Current university funds for peptide synthesizer and the dynamic light scattering instrument.	\$175K
NSF CAREER intensive computing equipment	\$40K
NSF MRI proposal led by Craig Adams in 2006 (estimated amount funded by NSF)	\$700K
Use of existing virtual reality visualization equipment for molecular simulation	\$80K
Current ERCEC technician support and maintenance (first 3 years)	\$20K
TOTAL POTENTIAL COST OFFSETS	1015K

In addition, the 600MHz NMR for \$800K could be delayed temporarily as discussed above. We believe that the expectation of \$300K per year from the capital campaign is a reasonable estimate. Since we are also including a new Chem-Bio-Engr building in the capital campaign, there will be competing needs for capital giving requests. These need to be assessed and prioritized based on global campus needs and donor interests.

We do believe that the new bioengineering program should receive some one-time institutional and/or state support so that the appropriate equipment is in place for a first-rate program in the important field of life science and engineering. If the UM system can commit to one-time funds of \$500K, then the program should be in a financially sound position to be implemented in an optimal time-frame.

Robert Mitchell
Judy Raper
Craig Adams
K. Krishnamurthy

Toomey Hall

Mechanical & Aerospace Engineering

The renewal of the facilities for Mechanical and Aerospace Engineering has been the campus's highest priority for nearly a decade. In the late 1990s, a group of faculty members and the building architects visited some of the highly ranked mechanical and aerospace programs across the nation that had recently acquired new facilities to inform the design of the UMR building. In 2001, the budget of the State of Missouri included an appropriation of \$6.3 million for the first phase of what was projected to be a total cost of approximately \$19 million construction/renovation project (the cost is now estimated to be \$24 million, a \$5 million increase). That appropriation was withheld in July of 2001 as the State fell into a deep recession. That appropriation has now lapsed.

Since that time, the only academic facilities on any of the University of Missouri campuses that have received state funding are those in life science and only then when there was a significant match for federal or private sources. It appears that the only source of state funding in the near future will be for life science structures. Life science investments have had the highest priority of both Governor Blunt and former Governor Holden. The University of Missouri has only requested capital funds for life science facilities in its current request. And, even this request assumes private resources will finance 25% of construction. In the near future it appears it will only be possible to garner state resources for capital construction for facilities that promote a specific state investment initiative. A new chemical and biological science and engineering building is on that list with a nearly \$60 million cost of construction.

Given projected State revenues, it is unlikely that any capital resources will be available for academic facilities for several years. Given the need to remodel a building constructed in 1948 and replace one constructed in 1902, it appears that the only way to get construction underway is for the campus itself to finance it. This is the path being followed by UMC. They will finance without state help an expanded and renewed engineering facility on the UMC campus with a total cost of construction approximately \$25 million.

The following is a summary of the financing plan for Toomey Hall:

Sources of Revenue

Current Gifts	\$7.5 Million
\$5 Million Mini-Campaign – Amount Remaining	\$3.5 Million
Maintenance & Repair – Next 3 years	\$2 Million
Indirect Costs from Advanced Aircraft Manufacture	\$1 Million
UM Bond (@ 5.5% for 25 Years)	\$10 Million
Total Project	\$24 Million

It is also possible that we will receive \$2 Million from the Department of Economic Development. If we do, the \$2 Million in M&R can be used to make the payments on the bond for 3-years.

It should also be noted that the payments on a 5.5%, 25-year bond is \$737,000 per year. The inflation cost of not constructing a new building, now at 7.6%* per year will cost the university \$1.8 million per year. Even at the historical construction inflation rate of 3%/yr, the cost to the campus is \$720,000 per year. It should also be noted that payments to retire these bonds will not start until FY 2007.

* Reference: ***The Construction Weekly – Engineering News Record***, Nov. 15, 2004, page 23

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Constitution for Engineering Students Without Borders at University of Missouri - Rolla Created February 2, 2005

Article I – Name

Section I. This organization will be known as Engineers Without Borders at University of Missouri - Rolla. Hereafter referred to as EWB-UMR. In affiliation with Engineers Without Borders – USA.

Article II. – Mission Statement

The purpose of EWB-UMR is to design and implement sustainable solutions to improve the quality of life in developing nations. EWB-UMR is dedicated to developing socially, environmentally, and ethically responsible students, as well as committed to raising awareness in the Rolla community of the challenges faced by developing nations.

Article III. – Membership

Section I. Membership Requirements

- A. All members of EWB-UMR will be University of Missouri - Rolla students, graduate or undergraduate, who meet eligibility requirements for participation in extra-curricular activities set by the University. Only University of Missouri - Rolla students can vote or hold office.
- B. Associate members are UMR faculty, staff, or alumni, and their spouses who are interested in the organization. They may not vote or hold office.
- C. Membership selection may not discriminate on the basis of race, gender, national origin, ethnicity, age, religion, sexual orientation, disability, or veteran status.
- D. Membership will take effect when an interested party pays dues.
- E. Only members meeting the membership requirements with EWB and with the university will be allowed to vote.

Sections II. Membership Removal

- A. Members will be notified of removal in writing one-week prior to vote.
- B. Members will be removed by a two-thirds vote of the chapter.
- C. *Any member can recommend the removal of any other member. A letter stating the reason for the request must be submitted to the executive committee. The executive committee will need a two-thirds vote to continue the recommendation to the chapter.*
- D. The member in question will be given a chance to speak before the chapter, as well as any witnesses testify for or against that member.

Article IV. – Executive Officers

Section I. Only UMR students and members of EWB-UMR can hold or run for office.

Section II. The duties of the Executive Committee will be as follows:

- A. **President:** Administer all business concerning the organization. Acts a liaison between membership and external organizations. Arbitrates over meetings. Represents EWB-UMR at conferences, student government meetings, and faculty meetings.
- B. **Vice-President:** Acts on behalf of the President in his or her absence. In charge of the design and construction of the project. Assists in finding projects and applies for all projects.
- D. **Secretary:** Maintains membership list. Responsible for communication of information to members. Records minutes of meetings and distributes them to members. Liaison to EWB-USA.
- E. **Treasurer:** Manages all money received or disbursed. Responsible for documentation of all income and expenditures in partnership with the university or local financial establishment. Responsible for constructing budget for the organization and oversees all fundraising.

Section III. Committee Heads positions may be appointed and dismissed as needed by majority vote of the Executive Committee. Committee Head positions include, but are not limited to the following:

- A. **Design:** Coordinates all aspects of design for the engineering projects.
- B. **Construction:** Manages all procurement of materials and construction of the engineering projects. Will be the on site manager of construction

- C. **Research:** Maintains the technical information for the engineering projects. Provides information on the advancement of technology to the group. Finds and secures speakers for group information meetings. Finds information about potential new projects.
- D. **Fundraising:** Finds funding for the engineering projects. Organizes all fundraising events.
- E. **Public Relations/Recruitment:** Creates publicity for the group. Informs the community and the school of all upcoming events. Acts as the historian.
- F. **Webmaster:** Maintains the website and updates it with all new information. Posts minutes and updates the member's only section.

Section IV. Executive Committee officers will be elected in the following manner:

- A. The elections for elected officers for the following year will take place at an organization meeting no later than the end of Fall Semester of each year. The date, time and location of the designated meeting will be emailed to all voting members no later than two weeks before elections.
- B. Candidate names will be emailed to all voting members prior to the designated meeting.
- C. Any student member of EWB-UMR may campaign or be nominated for any position on the Executive Committee.
- D. The candidate for each office receiving a majority vote of members at the elections meeting will be considered the victor. If no candidate receives a majority vote, then a run-off between the two candidates with the most votes will determine the victor.
- E. New officers begin their term at the beginning of the Spring semester and complete a one year term.

Section V. Executive Committee Officers shall be removed in the following manner:

- A. If an officer fails to maintain EWB or university requirements for holding office, he or she shall resign immediately.
- B. If it is believed that an officer is not fulfilling his or her duties, described in this constitution, then a petition requesting his or her removal must be signed by at least one third of the voting membership, and presented at a general meeting. Additionally, this petition must be verified as valid, by the Advisor. Then, at least two weeks, but no more than four weeks from the completion of these requirements, another meeting shall be held at which the grievance will be presented to the voting membership. Both sides shall be given opportunity to present a case. The Faculty Advisor shall preside over this meeting. A two-thirds vote, of voting members at this meeting, is required for removal of an officer. Removal is effective immediately.
- C. If the President is removed or resigns, the Vice-President will take his or her place. All other vacated elected positions will be voted on by the voting membership.

Article V – Advisor

Section I. A full time University of Missouri - Rolla faculty or staff member will serve as an advisor to the organization.

Section II. The Advisor will be invited and appointed by the Executive Committee based on majority vote.

Section III. The duties of the Advisor include: meeting with organization officers, reviewing the yearly budget, signing all required paperwork, and advising on issues of risk management, organization leadership, and University of Missouri – Rolla policy.

Section IV. The advisor may be removed for not carrying out the duties and expectations defined in this constitution. Any member may bring concerns to the Executive Committee. The Executive Committee will meet with the Advisor to discuss the concerns. The Executive Committee will then vote, with a majority vote required for removal of the Advisor.

Section V. If an Advisor is removed or resigns, the Executive Committee will follow the process stated in Article V Section II.

Section VI. The length of the appointment of the Advisor is indefinite, until either the Advisor resigns or is removed.

Article VI – Meetings

Section I. General meetings shall be held when there is a perceived need for them. Officers will arrange accommodations, which may include speakers, location, equipment, and food. When amendments are voted on, a two-thirds majority of active members present at the meeting is required to pass the amendment.

Section II. Officer meetings are for officers and advisors to discuss EWB issues and prepare for upcoming events. May be called whenever there is a need.

Section III. Committee meetings are for officers and committee heads to discuss progress and other orders of business. These may be called at anytime by either the executive committee or by a committee head.

Article VII – Dues

Section I. The executive board will set the amount of dues at the beginning of Fall semester.

Section II. Dues will not be less than the required amount designated by EWB-USA

Section III. Dues are to be paid once a year by two weeks into the fall semester or two weeks after becoming a member. Members are responsible for registering online.

Article VIII – Industry Advisory Board

Section I. In addition to the Faculty advisor, the Executive Committee will be advised by a voluntary advisory board, consisting of leading professionals from appropriate engineering disciplines, who will be invited by the Executive Committee on an annual basis. These voluntary advisors will provide input, mentoring, ideas, and suggestions, to be compatible with the mission of EWB-UMR.

Article XI – Parliamentary Procedure

Section I. Roberts Rules of Order will govern all meetings.

Article X – Rules and Regulations

Section I. EWB will abide by all University rules and all State laws.

Article XI – Constitution

Section I. The constitution must be ratified by two-thirds of the members.

Article XII – Constitutional Amendments

Section I. Amendments to the constitution shall be submitted in writing to the Executive Committee for consideration. A reading or email of the proposed amendment is required prior to submitting the amendment to a vote. Written notification of the proposed amendment to all members must be made by mail or email at least one week in advance of voting on any proposed changes in the constitution.

Section II. A two-thirds vote of members present is required for adoption of the amendment. 70% of members must be present at the time of vote.

Section III. All amendments to this constitution are subject to the approval by the Academic Council, Student Affairs Committee, or their designee.

Article XIII - By-laws

Section I. All By-laws must be voted on and approved by two-thirds of the chapter.

Section II. Any member can request a by-law by submitting a request in writing to the Executive Committee.

Section III. Bylaws are to be filed with the Department of Student Life upon ratification.



Student Council

University of Missouri – Rolla

218 Havener Center
1870 Miner Circle
Rolla, MO 65409
Phone: 573.239.4280



February 16, 2005

Dear Academic Council:

Student Council hereby suspends our participation in the Information Technology/Computing Committee (ITCC) until such a time as we are satisfied that this committee is fulfilling the charge given to it in the University of Missouri – Rolla Faculty Bylaws and new committee leadership is elected. Our participation in this committee so far has amounted to a waste of the students' time and resources as well as much frustration.

This committee is charged to: "advise the Provost and the Chief Information Officer in the formulation and implementation of information technology (IT) and computing activities on campus." Currently, in the opinion of the student body, this charge is not being met. One issue of major concern to the student body is the use of revenues collected through the IT Fee. Currently, there are 1.4 million dollars in IT Fee revenue not being spent by the CIO as he is waiting on ITCC input into how to best upgrade CLCs to meet the needs of both the students and faculty. This issue has not been discussed at a single ITCC meeting that Student Council has attended this academic year. This is just one example of how the ITCC is not meeting the charge given to it in the Faculty Bylaws.

Instead of giving input into IT and computing activities on campus, the majority of an ITCC meeting is spent nitpicking the allocation of the IT budget into different accounts than have been used in the past. At the November 2004 meeting, the ITCC Chair asked the student body representatives present if the student body was concerned with this distribution. Nathan Mundis, Vice President External Affairs responded that the CIO had presented his budget to Student Council and not one concerned or dissenting comment was made, thus the student body was content with the use of the IT Fee revenue. After this meeting, the ITCC Chair clandestinely solicited opinion from the other student council officers as to whether Mr. Mundis in fact represented the voice of the student body, asking the question, "Is there anything else one might say in describing what Nathan Mundis seems to view as student acceptance of the CIO transferring these funds?" At the Next meeting in January, Student Body President, Julia Rosemann attended for the expressed purpose of reiterating the student perspective about the transfer of this revenue. Sadly, the topic was again discussed at the February meeting while other topics, such as "computing activities on campus," were mostly neglected.

Because of the lack of progress made by the ITCC, because of the ITCC's concern with accounting details that do not affect the amount of input the ITCC has on computing activities, and because of the surreptitious actions taken by the committee's chair to circumvent the government of the student body, student council reiterates that it is forthwith withdrawing its participation in ITCC until such a time as new leadership is elected and the committee begins to progress toward fulfilling its duty to the University.

Sincerely,

Julia C. Rosemann
President
UMR Student Council

Nathan L. Mundis
Vice President External Affairs
UMR Student Council

Academic Council

@ University of Missouri Rolla

About Academic Council Volume XXXX, Number 13
Minutes of the Academic Council Meeting
Committee Members January 20, 2005

Upcoming Meetings

Meeting Minutes

Bylaws

XXXX, 13 The meeting was called to order at 1:30 p.m. by President Michael Hilgers. Roll call was taken, and absentees noted were: Pericles Stravropolous, Jennifer Leopold, V.A. Smaranayake, Massimo Bertino, Robert Stone, Neil Book, Levent Acar, Hal Nystrom, S.N. Balakrishnan, H.S. Tsai, Bih-Ru Lea, Duo Zhang, and Gary Thomas.

There was a motion and second to approve the minutes of the November 11, 2004 Academic Council meeting. The Academic Council body voted to accept the minutes. There was also a motion and second to approve the special meeting minutes of December 1, 2004 . The Academic Council body voted to accept the minutes.

1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - Michael Hilgers

a Board of Curators will be here on April 8, 2005 and there will be a breakfast at the Havener Center as a meet and greet. All academic council members are invited and encouraged to attend.

b Faculty Accomplishment System – No paper based faculty activity report this year, and a memo with web link for the URL will be sent out soon so that you can start entering information.

c IFC – next meeting is coming up shortly. Couple of items of concern that the committee has been discussing. Curator's Professorships and distinguished teaching professorships, and general policies regarding those. A topic is IFC as far linking all four campuses as common calendars.

d Strategic Planning is ongoing. Monday is strategic planning meeting day at 117 Fulton Hall at 11:00 , and is open to the faculty and meetings are pretty regular on Mondays.

e Provost Shah and Vice-Provost Harvest Collier have asked that we participate in the next NCA Accreditation cycle.

f Working on processes, when there is a motion that affects the Provost, we will send a letter to the Provost that informs him of the motions.

g Another part of our processes in order to create a paper trail, we are requesting that if you know that you will have a motion, then we ask that these motions be made in writing, particularly committee motions so we can refer back to them.

C. CHANCELLOR'S REPORT - Provost Y. T. Shah

a Chancellor Thomas is presenting a proposal to alumni on raising \$5 million for the new Mechanical Engineering Building (Toomey Hall). If successful, we are hoping that we can start construction in this calendar year.

b Appropriations for next year will be flat, but we are working for an increase. We will be lucky if we don't get a cut.

c International Students groups have been working with other organizations in Rolla to help with the Tsunami relief.

D. PROVOST'S REPORT - Y. T. Shah

a You already have my report according to the new rule of sending out information via e-mail to everyone. Research is looking good, and numbers are up. With all of the problems the government is having, we are hopeful that we will get the same amount of money. Undergraduate and graduate studies have in their reports a number of things going on. I have received the two motions from the president of AC council regarding tenure and

tenure track faculty. I am in support of the motions; we just need to work out the details on how we are going to proceed with this.

3 REPORTS OF STANDING AND SPECIAL COMMITTEES

a Budgetary Affairs – This report was presented by Don Myers. Met and reviewed the proposals for a Master of Business Administration and Bachelor of Science in Bioengineering for budgetary considerations.

Motion: It is recommended to Academic Council that before acting on these proposals that it requests the campus administration to provide a plan on how the campus can fiscally implement all three projects in FY2006.

Moved into discussion. A motion was made and passed to remove the clause "...before acting on these proposals". A clarification was made, and accepted; to remove the wording It is recommended: **Academic Council requests the campus administration to provide a plan on how the campus can fiscally implement all three projects (Bioengineering, MBA, and Toomey Hall) in FY2006 for the next Academic Council meeting.** The motion passed on a voice vote.

b Curricula Committee– This report was made by Charles Chusuei. Report was sent out electronically to the faculty. DC 149 was forwarded to Budgetary Affairs for their approval. A motion was made from the floor to go ahead and approve this. **Academic Council approves DC 149 with the stipulation**

that budgetary considerations may delay implementation. There was discussion on motion, and then the motion was voted on and passed with a voice vote. DC 145 was also forwarded to Budgetary Affairs for their approval. Another motion was made from the floor: **Academic Council approves DC 145 with the stipulation that budgetary and graduate faculty considerations may delay implementation.** There was discussion on the motion, and then a voice vote was taken with the vote not being distinguishable, so a hand vote was taken with 8 in favor and 8 opposed. The tie was broken with the academic council president voting in favor of the motion.

Recommends the following DC forms 137, 139, 141, 142, 144, and 147 be approved. Motion was made to approve, and a voice vote was taken and approved. The committee recommended 36 course changes be made, with a voice vote taken and approved.

c Student Affairs – there is no report this time, but will be one at the next meeting.

d Public Occasions – was presented and two proposed calendars that needed approval. Voice vote was taken on calendars and passed.

4 NEW BUSINESS AND ANNOUNCEMENTS

a Strategic Planning Steering Committee – **Motion by Mike Hilgers: I move that Academic Council respectively request the Strategic Planning Steering Committee hold a series of open**

forums to inform and engage the campus community. In particular the open forums should summarize key discussion items that have occurred in the prior months and address major concerns in the plan as it develops. The forums should be regularly scheduled and announced through email and eConnection. Academic Council also welcomes participation by students and staff in these forums. There was no discussion and motion was voted on and passed unanimously on a voice vote.

b Staff Council: No report

c Student Council: No report

d Council of Graduate Students: No report

e Council of Graduate Students - no report.

f Referrals - Two referrals. First one from November from how various IT funds had been spent over the last few years. Referred to Budgetary Affairs – Don Myers. Unified calendar referred to public occasion’s committee.

Mike Hilgers adjourned the meeting at 3:00 p.m.

Respectfully submitted,
(electronically submitted, 02/09/2005)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.

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*Last updated: Friday, 11-Feb-2005 09:23:46 CST by
acadcoun@umr.edu*
Web Site Design by the UMR Web Group

Budgetary Affairs Committee Report to Academic Council January 20, 2005

The Budgetary Affairs Committee met and reviewed the proposals for a Master of Business Administration and Bachelor of Science in BioEngineering for budgetary considerations. Dr. Kluczny and Dr. Raper were present at our meeting to answer questions. In summary, the committee concluded that the financial projections appeared to be appropriate.

The Budgetary Affairs Committee does have concerns about the impact that these programs and other designated priorities such as Toomey Hall will have on the campus budget for FY2006 and FY2007. As presently proposed, the MBA program will have a deficit of \$267,579 and the BioEngineering program will have a deficit of \$519,000 without campus resources and/or capital campaign contributions in FY2006. With Toomey Hall going forward, these three items will add more than \$1.5 million to the already projected deficit of \$3 to \$5 million.

Therefore, it is recommended to Academic Council before acting on these proposals that it request the campus administration to provide a plan on how the campus can fiscally implement all three projects in FY2006.

JMIR3

PROVOST REPORT
ACADEMIC COUNCIL
JANUARY 20, 2005





ENROLLMENT MANAGEMENT

ENROLLMENT MANAGEMENT

January 2005

- Finalist Candidate for Institution Research Director to interview on campus on Jan. 6.

Student Financial Assistance

- First disbursement of aid for Spring Semester:

As of January 4, 2005, over \$11.5 million in financial aid was applied to student university accounts.

- \$ 5,728,000 awarded for FS2005 freshmen/transfer scholarships



Registrar's Office

Pre-Registered as of 12/27/2004 (Paid Fees)

	<u>WS 2003</u>	<u>WS 2004</u>	<u>WS 200 5</u>
On-Campus	3,673	3,939	3,935
EEC	61	65	82
Distance Education	258	268	235
Total:	3,992	4,272	4,252



Admissions – Fall 2005

1/4/05 UPDATE

	Applications	Admits
Freshmen	1590	1422
Transfers	111	50
Graduate	451	94



Freshmen

UMR - Enrollment Management Services

WEEKLY ENROLLMENT REPORT

		Fall 2000	Fall 2001	Fall 2002	Fall 2003	Fall 2004	Fall 2005	
		(ADMs)	(PS Conv)	(PS)	(PS)	(PS)	(PS)	
		12/21/1999	12/21/2000	12/21/2001	12/21/2002	12/21/2003	12/21/2004	
FRESHMEN	Prospects	Beg. Fr. Prospects	139181	42816	65154	42352	24108	16519
		HS Jr. Prospects	10454	10704	10296	4261	2811	3894
	Inquiries	Beg. Fr. Inquiries	18062	9071	12228	10243	9038	9166
		HS Jr. Inquiries	1084	576	4890	2660	2548	2345
	Applications		1319	1262	1404	1386	1490	1538
		Pending	268	307	166	156	131	165
		Withdrawn Apps	2	0	1	6	0	0
	Admitted		1013	955	1219	1224	1351	1364
		Cancelled Admits	4	0	2	3	3	1
		Denied	36	0	18	0	8	9
	Enrolled		0	0	0	0	0	0



Transfer

UMR - Enrollment Management Services

WEEKLY ENROLLMENT REPORT

		Fall 2000	Fall 2001	Fall 2002	Fall 2003	Fall 2004	Fall 2005
		(ADMs)	(PS Conv)	(PS)	(PS)	(PS)	(PS)
		12/21/1999	12/21/2000	12/21/2001	12/21/2002	12/21/2003	12/21/2004
TRANSFERS	Inquiries	515	353	364	416	818	487
	Applications	105	72	111	91	104	105
	Pending	46	40	50	49	56	67
	Withdrawn Apps	8	0	0	0	0	0
	Admitted	49	31	61	42	47	37
	Cancelled Admits	0	0	0	0	0	0
	Denied	2	1	0	0	1	1
	Enrolled	0	0	0	0	0	0



Graduate

**UMR - Enrollment Management Services
WEEKLY ENROLLMENT REPORT**

		Fall 2000 (ADMs) 12/21/1999	Fall 2001 (PS Conv) 12/21/2000	Fall 2002 (PS) 12/21/2001	Fall 2003 (PS) 12/21/2002	Fall 2004 (PS) 12/21/2003	Fall 2005 (PS) 12/21/2004
GRADUATES	Inquiries	4695	2283	1518	1161	496	468
	Applications	607	492	1149	995	433	352
	Pending	511	417	904	785	338	254
	Withdrawn Apps	0	0	2	0	1	0
	Admitted	84	67	189	179	75	86
	Cancelled Admits	0	0	0	0	0	0
	Denied	12	8	54	31	19	12
	Enrolled	0	0	0	0	0	0

Unofficial Internal Planning Data - not intended for public release.

ADMs - data from ADMs system

PS Conv - PeopleSoft conversion data

PS - data from PeopleSoft system



New Student Programs

- 200 (+2%) PRO Enrollment Deposits as of Jan. 4, 2005
- Over 7,000 new UMR ID's issued since April 2004
- First PRO Session: Saturday, February 19



Student Diversity Programs

<i>FALL ADMITS</i>	<i>01</i>	<i>02</i>	<i>03</i>	<i>04</i>	<i>05</i>
Nav Amer	1	1	4	4	6
Asian Amer	26	38	35	46	33
African Amer	26	29	40	40	48
Hispanic	15	25	22	20	28
TOTAL	68	93	101	110	115

- +40 MEP Scholarships awarded for FS05
- New & Updated Websites:
<http://campus.umn.edu/mep/index.htm>
<http://campus.umn.edu/studiv/>
- PCI Weekend & Dinner to Jazz: Feb. 25 & 26



Women's Leadership Institute

- ADMISSION APPLICATIONS

	<u>2001</u>	<u>2005</u>
Male	792	1128
Female	199	291

- 42 student completed the fall Women's Leadership Course
- 120 women's scholarships awarded for FS05
- +30 High School Jr & Sr registered for March 2005 Lock-in overnight campus visit
- WISE: UMR's Women in Science & Engineering 30 Year Celebration Dinner: March 12, 2005, Havener Center

Center for Pre College Programs

- New Project Lead the Way Academic Director (Pre-Engineering Academic Program for High Schools): **Dr. Ralph Flori**
- New GA coordinating the new 8-10 grade MAYA (Missouri Academy for Youth Advancement) STEM Summer Camp:
Mr. Brian Sea, Computer Science
- **AP Teacher Training Institutes** for STEM courses coming to UMR campus in July 2005

UMLF3

RESEARCH

Research

Research slides:

- 1) New Proposal submissions: 64.2M, up 31.2% from FY04 (\$49.0M)
- 2) New Proposal awards: \$15.1M, up 3.9% from FY04 (\$14.6M)
- 3) Federal plus-up activity: \$11.8M in appropriations, \$81.0M for our FY06 ask...



Proposals Submitted during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	2,019,716	307,295	349,735	53,032	844,748								3,574,526
Chem.	1,049,738	922,433	1,915,513	666,475	578,814								5,132,973
Comp. Sci.	1,229,161	1,505,721	0	0	1,058,224								3,793,106
Engl. & Tech. Comm.	0	8,210	0	0	0								8,210
Hist./PS	0	0	2,224	0	0								2,224
Math/Stat	0	0	0	400,636	1,410,072								1,810,708
Phil.	0	0	0	0	0								0
Phys.	1,071,015	81,178	820,309	417,423	0								2,389,925
Psych.	0	0	0	0	93,750								93,750
Dean's Office	0	246,983	0										
A&S Totals:	5,369,630	3,071,819	3,087,781	1,537,566	3,985,608	0	0	0	0	0	0	0	17,052,404
Materials Sci. & Eng.	90,272	904,331	2,255,660	2,672,784	6,926,607								12,849,654
Mining & Nuclear Eng.	1,236,959	843,522	296,396	172,902	1,128,010								3,677,789
Geol. Sci. & Engr.	1,282,027	5,001	586,286	0	219,010								2,092,325
Dean's Office	0	258,647	0	0									258,647
SoMEER	2,609,258	2,011,501	3,138,342	2,845,686	8,273,627	0	0	0	0	0	0	0	18,878,415
Basic Engr.	0	595,560	333,240	0	88,485								1,017,285
Chem & Biol. Engr.	573,237	894,984	2,696,250	0	0								4,164,472
Civil, Arch. & Env. Engr.	1,195,456	1,298,199	593,113	321,627	1,629,036								5,037,431
ECE	2,180,745	1,451,226	1,135,450	463,079	831,956								6,062,457
Engr. Mgt.	800,002	1,341,687	325,597	448,445	679,346								3,595,078
MAEM	1,456,523	1,428,456	956,860	1,077,204	1,650,283								6,569,327
Dean's Office	0	740,948	0	0									740,948
SOE Totals	6,205,964	7,751,060	6,040,510	2,310,355	4,879,107	0	0	0	0	0	0	0	27,186,996
Econ. & Finance	0	12,500	16,841	0	186,250								215,591
Business Admin.	134,732	97,773	0	0	52,000								284,505
Info Sci. & Tech.	86,868	63,000	0	0	0								149,868
SMIS	221,601	173,273	16,841	0	238,250	0	0	0	0	0	0	0	649,965
Enrollment Mgt													0
UMR Global													0
Grad/UG Studies		308,728											308,728
Other		605											605
RPDC			148,592										148,592
KUMR													0
Grand Totals:	14,406,453	13,316,986	12,432,067	6,693,607	17,376,592	0	0	0	0	0	0	0	64,225,705

+31.2% compared to FY 04: \$49.0 M

Total: \$64.2 M
UNIVERSITY OF MISSOURI-ROLLA



Proposals Awarded during FY 04-05

	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Totals
Biol. Sci.	47,985	114,495	0	0	0								162,480
Chem.	401,907	7,623	0	701,475	123,555								1,234,560
Comp. Sci.	98,791	571,009	12,000	0	179,968								861,767
Engl. & Tech. Comm.	0	0	0	0	0								0
Hist./PS	5,000	0	2,224	0	0								7,224
Math/Stat	21,317	0	0	51,653	29,630								102,600
Phil.	0	0	0	0	0								0
Phys.	122,612	7,000	93,264	35,000	28,000								285,876
Psych.	64,787			0	0								64,787
A&S Totals:	762,398	700,127	107,488	788,128	361,153	0	0	0	0	0	0	0	2,719,294
Materials Sci. & Eng.	238,527	327,132	72,486	268,855	282,545								1,189,544
Mining & Nuclear Eng.	144,931	1,151,344	149,396	29,916	238,000								1,713,587
Geol. Sci. & Engr.	0	281,170	10,000	135,000	85,638								511,808
Dean's Office	28,750	61,164	0	0	0								89,914
SoMEER	412,208	1,820,809	231,882	433,771	606,183	0	0	0	0	0	0	0	3,504,853
Basic Engr.	0	0	2,112	0	12,065								14,177
Chem & Biol. Engr.	0	0	40,000	0	0								40,000
Civil, Arch. & Env. Engr.	858,419	200,605	70,112	153,745	305,075								1,587,956
ECE	1,837,273	300,302	58,398	423,251	124,620								2,743,844
Engr. Mgt.	97,181	279,394	45,000	0	109,458								531,032
MAEM	104,006	657,993	458,541	678,475	52,933								1,951,947
SOE Totals	2,896,879	1,438,273	674,163	1,255,471	604,151	0	0	0	0	0	0	0	6,868,956
Econ. & Finance	10,000	0	1,779	0	0								11,779
Business Admin.	1,254,998	0	60,000	58,470	116,700								1,490,168
Info Sci. & Tech.	42,100	163,697	0	0	0								205,797
SMIS	1,307,098	163,697	61,779	58,470	116,700	0	0	0	0	0	0	0	1,707,744
Enrollment Mgt													0
International Affairs													0
Minority Affairs													0
Other		10,723											10,723
RPDC	271,989												271,989
KUMR		64,116											64,116
Grand Totals:	5,650,572	4,197,764	1,075,313	2,535,840	1,688,186	0	0	0	0	0	0	0	15,147,675

+3.9% compared to FY 04: \$14.6 M

Total: \$15.1 M



FY05-06 Federal Plus-Up Proposals

Title	\$M Requested
Advanced Protection and Control of the Power Grid (McMillin)	4.0
Advanced Manufacturing Technologies for Metals, Composites and Electronic Materials (Leu)	10.0
Aerospace Propulsion Particulate Emissions Reduction Program (Whitefield)	10.0
Blast-Resistant Barriers and Structural Design For Homeland Defense (Baird)	16.2
Center for Intelligent Mobile Security Systems (Krishnamurthy)	3.5
Center for River Engineering Studies (Morris)	2.0
Detection and Neutralization of Electronically Initiated Improvised Explosive Devices (Drewniak)	4.8
Development and Characterization of Nano-filled Composites, Sensors, and Actuators (Blum)	6.5
Dielectric Materials and Devices for Pulsed Power Applications (Schwartz)	6.0
Multifunctional Composites for Transportable Force Protection (KC)	4.0
Power and Propulsion Technologies for the Electric Naval Force (Corzine)	4.0
University of Missouri – Rolla Research Institute (Mills)	10.0
Total	\$81.0 M



Appropriated FY04-05 Federal Plus-Up Proposals

Title	\$M
Advanced Manufacturing Technologies for Metals, Composites & Electronic Materials (Leu)	3.5
Advanced Millimeter Wave Inspection System for the Space Shuttle External Tank Insulation Foam and the Orbiter's Heat Tiles (Zoughi)	0.3
Aerospace Propulsion Particulate Emissions Reduction Program (Whitefield)	2.3
Modernizing the Power Grid (McMillin)	2.0
Blast Resistant Barriers for Homeland Defense (Baird)	2.4
Fuel Preperator Evaluation (Flanigan)	1.3
Total	11.8M

Plus-up Funding in Previous Years (\$M)						
FY98	FY99	FY00	FY01	FY02	FY03	FY04
0.3	1.2	3.4	8.2	6.2	8.6	12.3



UNDERGRADUATE AND GRADUATE STUDIES

Academic Advising Program

- **UMR Advising Development Conferences-UGS**
established a campus advising network, and is offering a series of advising development conferences. The topic of the next conference is: *Developmental Advising- March 7, 2005*
- **Outstanding Academic Advising Awards-**
Seven annual awards will be given to UMR academic advisors to recognize those who contribute to the continual improvement of UMR's educational environment. Award nominations are due March 25, 2005.

Outstanding Academic Advising Awards Luncheon- April 27, 2005



Experiential Learning- Undergraduate Research Program

- **Undergraduate Research Day at the Capitol-** *April 5, 2005.* Students from all four UM campuses are invited to display research posters and speak with legislators about the significance of their research toward solving critical societal problems.
- **UMR Undergraduate Research Day,** *A Celebration of Learning by Doing!* - *April 13, 2005.* The Undergraduate Research Conference offers students a competitive forum in which to showcase the results of their research projects.
- **OURE/Experiential Learning-** UMR's OURE program is being modified to include individual and team research and a mechanism for measuring the impact the research experience has on student learning. OURE for 2005-06 are due April 1, 2005.



Center for Educational Research & Teaching Innovation- Faculty Workshops

- **Helping Students Get On Course-Two Day Workshop**, facilitated by Deb Poesse- *January 6-7, 2005*
- **Active Learning**, facilitated by Michael J. Pavelich- *February 25, 2005*
- **Teaching Design and Higher Level Learning**, facilitated by Michael J. Pavelich- *February 25, 2005*
- **Conducting Research in Engineering and Science**, facilitated by Richard Felder- *March 11, 2005*. This workshop is intended to prepare faculty members in technical disciplines to formulate appropriate educational research questions, design effective implementation and assessment plans, and sell their ideas to potential funding sources.

Academic Alert System

- **The Academic Alert System-** *A process improvement that will have a positive impact on UMR student retention.*

The Academic Alert System provides a secure, web-based tool that allows an instructor to communicate with a student and his/her advisor, and assign and track remedial actions. The system will allow UMR to address students needs in a more timely fashion, and provides documentation of the process for easy tracking. Implementation is planned for the spring 2005 semester.

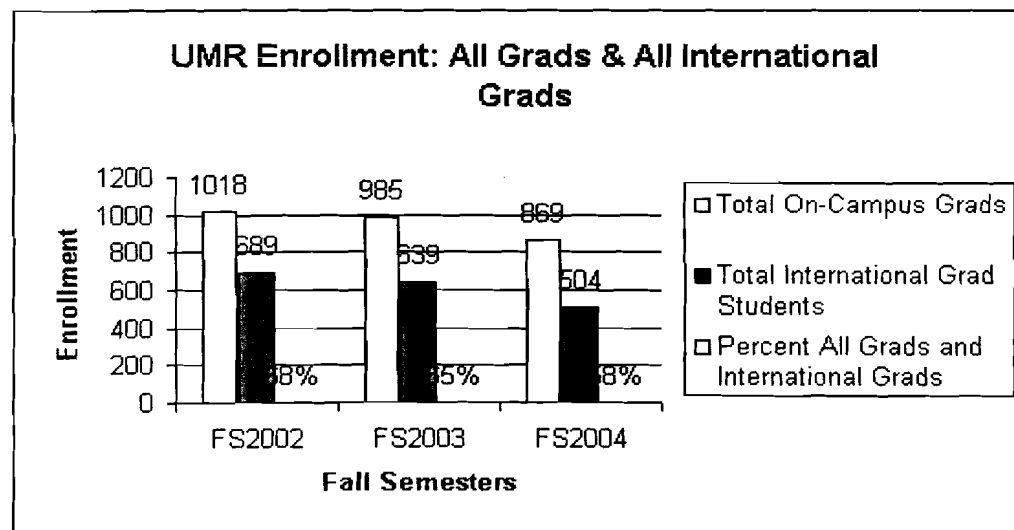


SCHOOL OF EXTENDED LEARNING



School of Extended Learning

1. As of January 1, 2005, the name of UMR Global has been changed to the School of Extended Learning.
2. The departments of Electrical and Computer Engineering and Engineering Management continue to meet with the St. Louis Community Colleges to find ways to strengthen their transfer programs and investigate the feasibility of establishing BS level degree completion programs in the St. Louis area.
3. The graph below shows a drop of 185 graduate students from FS 2002 through FS 2004. As this trend continues, graduate student recruiting becomes increasingly important for UMR.





INFORMATION TECHNOLOGY



Information Technology

Applications

Blackboard Intersession Maintenance

- Completed 27- 30 Dec 2004 during holiday down time to minimize impact on blackboard customers
- Blackboard environment is ready for Spring 2005

Service Pack 2 for Documentum Installed

- Completed Dec 1 – Dec 15
- Provides latest updates to Documentum environment

Userid Maintenance Completed

- Identified 9000+ userids for removal
- 4500+ Mailboxes removed

FsaAtlas

- Completed Spring 2005 admission CDL

Enterprise Reporting

Teacher evaluations for FS2004 were completed in December. Results are available via the Web beginning January 6. As with the WS2004 results, there is no printed output being generated as the individuals can print the individual reports from the Web. In addition the Web gives individuals the ability to pull results from previous semesters and view/print them as appropriate.

<http://campus.UMR.edu/cet>

Networks and Computing

VoIP installation has been completed in Civil Engineering and the Havener Center has been brought online as well.

Solutions Center

Deployment is in full swing with the Desktop Enhancement Program. To date 35 new machines and three rebuilt machines have been deployed.

The IT Solutions Center and Technology showcase are now residing in their newly renovated home. (The glass area on the ground floor of the Computer Science Building.)



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Memo To: Academic Council
From: UMR Campus Curriculum Committee Meeting
RE: December 2, 2004 and January 6, 2005 Meeting

For the information of the Academic Council the following DC form pertaining to a new Undergraduate Degree Program has been forwarded to Budgetary Affairs with recommendation for approval. Input from Budgetary Affairs should be obtained before an Academic Council vote.

Approved DC form

DC 0149, School of Engineering, Chemical and Biological Engineering, approved effective Fall 2005. A proposal to establish a new Bachelor of Science program in Bioengineering.

For the information of the Academic Council the following DC forms pertaining to Graduate curricula issues have been forwarded to the Graduate Faculty and Budgetary Affairs with recommendation for approval. Input from Graduate Faculty and Budgetary Affairs should be obtained before an Academic Council vote.

Approved DC form:

DC 0145, SMIS, Business Administration, approved effective Spring 2007. A proposal to create a new degree called a Master of Business Administration.

The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes on the following DC forms be approved.

Approved DC forms:

DC 0137, College of Arts & Sciences, Biological Sciences, approved effective Fall 2005. A proposal to modify the current curriculum for the Bachelor of Science in Biological Sciences.

DC 0139, SoMEER, Petroleum Engineering: Information Technology Emphasis Area, approved effective Fall 2005. A proposal to change IST 211 to IST 286 under the Information Technology Emphasis area.

DC 0141, SoMEER, Ceramic Engineering, approved effective Spring 2005. A proposal to drop the Doctor of Engineering degree in Ceramic Engineering and replace it with a Ph.D. degree in Materials Science & Engineering.

DC 0142, School of Engineering, Aerospace Engineering, approved effective Fall 2005. A proposal to modify the current curriculum for the Bachelor of Science in Aerospace



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Engineering by eliminating AE 210 and increasing the number of Chemistry requirements.

DC 0144, SoMEER, Ceramic Engineering, approved effective Fall 2005. A proposal to modify the current curriculum under the Bachelor of Science in Ceramic Engineering.

DC 0147, SMIS, Information Science & Technology, approved effective Fall 2005. A proposal to add a footnote stating that Math 002 may be substituted for Math 004 under the Bachelor of Science in Information Science & Technology.

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 5615, Technical Communication 65, The Technical Writer in Business and Industry. New course approved effective Fall 2005.

Catalog Description: Introduction to the role of the professional technical communicator in business and industry and practice in methods of developing technical documents.

Credit Hours: 3 hour Lecture

Prerequisites: English 20

Co-listing: English 65

CC 5618, Technical Communication 240, Layout and Design. New course approved effective Fall 2005.

Catalog Description: Theory and practice of layout and design for print and electronic media.

Credit Hours: 3 hour Lecture

Prerequisites: TCom 65 or English 65

Co-listing: English 240

CC 5619, Technical Communication 260, Practicum in Technical Writing. New course approved effective Fall 2005.

Catalog Description: Practice in writing, editing, and designing layouts of technical publications using the personal computer for desktop publication.

Credit Hours: 3 hour Lecture

Prerequisites: TCom 65 and TCom 240, or English 65 and English 240

Co-listing: English 260

CC 5620, Technical Communication 300, Special Problems. New course approved effective Fall 2005.

Catalog Description: Problems or readings on specific subjects or projects in the department.



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Prerequisites: Consent of instructor required
Credit Hours: Variable

CC 5621, Technical Communication 301, Special Topics. New course approved effective Fall 2005.

Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable title.

Credit Hours: Variable

Prerequisites: None

CC 5622, Technical Communication 302, Research Methods in Technical Communication. New course approved effective Fall 2005.

Catalog Description: Students learn essential research methods in technical communication, including audience analysis, interviewing techniques, working with subject matter experts, and experimental research design.

Credit Hours: 3 hour Lecture

Prerequisites: TCom 65 and TCom 240, or English 65 and English 240

CC 5623, Technical Communication 310, Seminar. New course approved effective Fall 2005.

Catalog Description: Discussion of current topics.

Credit Hours: Variable

Prerequisites: TCom 65 and TCom 240

CC 5629, Technical Communication 340, Theory of Visual Technical Communication. New course approved effective Fall 2005.

Catalog Description: A study of the relationships between visual and conceptual elements of technical communication.

Credit Hours: 3 hour Lecture

Prerequisites: TCom 65 and TCom 240, or English 65 and English 240

CC 5633, Technical Communication 380, Internship. New course approved effective Fall 2005.

Catalog Description: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the students' background and the setting.

Credit Hours: Variable

Prerequisites: Senior status; must have completed 24 hours in the major core curriculum

CC 5634, Technical Communication 390, Theory and Practice of Technical Communication. New course approved effective Fall 2005.



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Catalog Description: This capstone course enables the student to work on individual and group projects that put into play the theories and practices of technical communication. Students are expected to develop professional portfolios.

Credit Hours: 3 hour Lecture

Prerequisites: Senior Status; and TCom 65 and TCom 240, or English 65 and English 240

CC 5635, Technical Communication 400, Special Problems. New course approved effective Fall 2005.

Catalog Description: Problems or readings on specific subjects or projects in the department.

Credit Hours: Variable

Prerequisites: Consent of instructor

CC 5636, Technical Communication 401, Special Topics. New course approved effective Fall 2005.

Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable Title

Credit Hours: Variable

Prerequisites: None

CC 5637, Technical Communication 402, Foundations of Technical Communication. New course approved effective Fall 2005.

Catalog Description: Introduction to themes and issues, methods, and genres that define technical communication.

Credit Hours: 3 hour Lecture

Prerequisites: None

CC 5638, Technical Communication 403, Theoretical Approaches to Technical Communication. New course approved effective Fall 2005.

Catalog Description: Examines representative theories and research in written, oral, and visual modes of technical communication. Includes such issues as ethics, document design, rhetorical methods, and people-machine communication.

Credit Hours: 3 hour Lecture

Prerequisites: None

CC 5640, Technical Communication 410, Seminar. New course approved effective Fall 2005.

Catalog Description: Discussion of current topics.

Credit Hours: Variable

Prerequisites: None

CC 5645, Technical Communication 490, Research. New course approved effective Fall 2005.



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Catalog Description: Investigations of an advanced nature leading to the preparation of a thesis or dissertation.

Credit Hours: Variable

Prerequisites: Consent of instructor required

CC 5899, Chemistry 435, Principles of Inorganic Chemistry. The following change is approved effective Fall 2005.

Prerequisites – Present: Chem 237 and Chem 331

Proposed: Chem 237, Chem 331 and Chem 343

CC 5900, Chemistry, 437, Principles of Inorganic Chemistry. The following change is approved effective Fall 2005.

Prerequisites – Present: Chem 237 and Chem 331

Proposed: Chem 237, Chem 331 and Chem 435

CC 5901, Chemistry, 423, Advanced Topics in Organic Chemistry. The following changes are approved effective Fall 2005.

Course Title – Proposed: Advanced Synthetic Organic Chemistry

Catalog Description – Proposed: A discussion of a large number of synthetically useful reactions involving enolates and enamines; nucleophilic additions to carbonyl compounds; functional group interconversions, thermal pericyclic reactions; organometallic compounds; carbocations, carbenes and free radicals as reactive intermediates; aromatic substitutions; and multistep synthesis.

Prerequisites – Present: Chem 223 or equivalent

Proposed: Chem 321 or equivalent

CC 5912, Biological Sciences 242, Human Physiology. The following changes are approved effective Spring 2006.

Catalog Description – Proposed: Study of the function of the organ systems of the human body with emphasis on organ systems interactions.

Credit Hours – Present: Lecture: 4 Lab: 1 Total: 5

Proposed: 3 hour Lecture

Prerequisites – Present: Bio 110

Proposed: Bio 110, Bio 111, or Bio 211

CC 5913, Biological Sciences 243, Human Physiology Laboratory. New course approved effective Spring 2006.

Catalog Description: Laboratory activities and demonstrations of basic physiology of human organ systems.

Credit Hours: 1 hour Lab

Prerequisites: Accompanied or preceded by Bio 242



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CC 5916, English 392, Advanced Writing for Science and Engineering. The following changes are approved effective Fall 2005.

Credit Hours – Present: 2 hour Lecture
Proposed: 3 hour Lecture

CC 5917, Military Science 20, Rifle Marksmanship. New course approved effective Fall 2005.

Catalog Description: The course teaches basic rifle marksmanship and firearm safety. Students will be required to learn common rules of firearms safety and fire airguns using standard firing positions. Targets will be scored. Students will also become familiar with military marksmanship techniques and weapons.

Credit Hours: 1 hour Lecture
Prerequisites: None

CC 5918, SoMEER 111, Global Research. New course approved effective Fall 2005.

Catalog Description: This course is offered as part of the residential college experience. Topics covered will include introduction to the importance of research in today's technological society, basic research methods, and participation in campus research teams. The course will include speakers, laboratory tours, hands-on experience, and field trips.

Credit Hours: 0.5 hour Lecture
Prerequisites: None

CC 5919, Chemistry 363, Intermediary Metabolism. The following change is approved effective Fall 2005.

Course Title – Present: Intermediary Metabolism
Proposed: Metabolism

CC 5920, Basic Engineering 20, 50, 101, 110, 120, 140, 150, 201, 220, 301, 342, 390, and 420. The following changes are approved effective Fall 2005. The discipline designation is changing on all these courses from BE to IDE (Interdisciplinary Engineering). Also changing the co-list for ME 461 to reflect the change of BE 420 to IDE 420. All other curriculums using these course numbers will also be changed to reflect the new discipline designation.

CC 5921, IDE 105, Design Representations. New course approved effective Fall 2005.

Catalog Description: This course examines methods of representing objects including sketches, photography, computer generated drawings, solid modeling, and 3D physical representations. Emphasis is on appropriate selection of methods of representation for a given application. An individual project is required.

Credit Hours: Lecture: 2 Lab: 1 Total: 3
Prerequisites: IDE 20



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CC 5922, IDE 214, Systems Modeling/Prototyping. New course approved effective Fall 2005.

Catalog Description: This course examines the modeling, simulation, and prototyping of dynamic systems. The use of bond graphs to represent the essential structure of system models leads to state space equations for performance analysis and design variable selection.

Credit Hours: 3 hour Lecture

Prerequisites: IDE 105, MA 229, IDE 150

CC 5923, IDE 215, Junior Design Project. New course approved effective Fall 2005.

Catalog Description: Students use extensive mathematical and physical modeling to characterize a team-based interdisciplinary design project. A prototype is built and tested to determine the effectiveness of the various modeling techniques used.

Credit Hours: Lecture: 1 Lab: 1 Total: 2

Prerequisites: IDE 214

CC 5924, IDE 315, Interdisciplinary Design Project. New course approved effective Fall 2005.

Catalog Description: Interdisciplinary design topics include team report writing, patent search and application, prototyping techniques, conflict resolution, critiquing methods, and presentation skills. Student teams will complete a design project for an external or internal sponsor, including a working prototype of the product.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: IDE 215, IDE 220

CC 5926, Ceramic Engineering 261, Ceramic Engineering Design Laboratory. The following changes are approved effective Fall 2005.

Catalog Description – Proposed: Students working in groups of 3 or 4 will be assigned a design task related to a specific technology, e.g., ceramic turbine blades, fuel cell electrodes, glass fibers, thermal insulation, etc. Ceramic 261 will focus on project planning and product/process design.

Credit Hours – Present: 2 hour Lab

Proposed: 1 hour Lab

CC 5927, Philosophy 368, IST 368, Law and Ethics in E-Commerce. New course approved effective Spring 2005.

Catalog Description: Provides the ethical framework to analyze the ethical, legal, and social issues that arise for citizens and computer professionals regarding the computerization of society. Topics include: free speech, privacy, intellectual property, product liability, and professional responsibility.

Credit Hours: 3 hour Lecture

Prerequisites: Any intro level Philosophy course



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CC 5928, A&S 111, Women as Global Leaders. New course approved effective Fall 2005.

Catalog Description: The class will encourage the development of the skills necessary for strong leadership. It will begin with skills assessment, progress through seminars and workshops led by women alumni, and culminate in the project and team-building exercises. Course may be repeated for credit.

Credit Hours: 0.5 hour Lecture

Prerequisites: None

CC 5931, IST 233, Introduction to Computer Networks and Communications. The following changes are approved effective Fall 2005.

Course Title – Proposed: Introduction to Telecommunications Networks

Catalog Description – Proposed: The course provides an introduction to current and evolving telecommunications technologies, including voice, data and video. It includes network construction, operation and management; discussion of network technologies, standards and protocols; switching; area networks; and hands-on experience with network hardware, software and simulations.

CC 5943, Civil Engineering 320, Architectural Engineering 320, Structural Analysis II. New course approved effective Spring 2005.

Catalog Description: Classical displacement and force methods applied to structures of advanced design. Analysis of indeterminate structures such as continuous beams, arches, cables, and two and three dimensional frames, and trusses. Analysis of indeterminate structures involving temperature and support settlements effects.

Credit Hours: 3 hour Lecture

Prerequisites: Civil Engineering 217 or Architectural Engineering 217

CC 5945, Electrical Engineering 422, Integrated Microsystems Engineering. New course approved effective Fall 2005.

Catalog Description: A review of micromachining and multidisciplinary microsystem technologies. Case studies of foundry services for microsystem fabrication.

Structures and operational principles of various Microsystems including mechanical (MEMS), optical (MOEMS), biochemical and microfluidic (bio-MEMS) microsensors and microactuators.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing



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For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.

Approved EC forms:

EC 1607, Math 301, Math for High School Teachers: An Advanced Perspective, approved effective Spring 2005.

Course Description: The course covers the topics of Algebra and Analysis from an advanced perspective. It is designed to equip high school mathematics teachers with the knowledge to make connections between the material typically taught at the secondary level to the fundamental ideas that guide the subject.

Credit Hours 3 Hour Lecture

Prerequisites: Hold a secondary teaching certificate or consent of instructor

EC 1608, Military Science 101, Rifle Marksmanship, approved effective Spring 2005.

Course Description: The course teaches basic rifle marksmanship and firearm safety.

Students will be required to learn common rules of firearms safety and fire airguns using standard firing positions. Targets will be scored. Students will also become familiar with military marksmanship techniques and weapons.

Credit Hours: 1 hour Lecture

Prerequisites: None

EC 1609, Math 301, Difference Equations: An introduction and Applications, approved effective Spring 2006.

Course Description: The discretization of differential equations, the computation of special functions, the approximation of solutions of equations by Newton's method, and the discrete modeling of economic or biological phenomena. Our goal is to present an overview of the various facets of difference equations that can be studied by elementary mathematical methods.

Credit Hours: 3 hour Lecture

Prerequisites: Linear Algebra and Differential Equations

EC 1610, Geological Engineering 101, Engineering Critique of Earth Science in Cinema, approved effective Spring 2005.

Course Description: Introduces principles of engineering and science through critique of the technical plausibility of earth and environmental aspects of popular movies such as The Core, Tremors, Armageddon, Erin Brockovitch, Earthquake, etc. Students will view and critique a minimum of eight movies with themes relating to the Earth and environment.

Credit Hours: 3 hour Lecture

Prerequisites: None



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EC 1611, Mechanical Engineering 401, Vibration of Plates & Shells with Piezo Actuation & Sensing, approved effective Fall 2005.

Course Description: Development and solution of equations of motion for continuous structures relatively thin in one or more directions. Fundamentals of piezoelectric actuation and sensing applied to shell and plate structures, and the analytical solution of the resulting inhomogeneous equations of electro-elasticity.

Credit Hours: 3 hour Lecture

Prerequisites: Mc Eng 307

EC 1612, Engineering Management 401, Advanced Project Management, approved effective Spring 2005.

Course Description: In depth and advanced topics in project management including project management methodologies, strategic planning for excellence, project portfolio management, integrated processes, culture, and behavioral excellence; normally includes a hands-on group project.

Credit hours: 3 hours Lecture

Prerequisites: EMgt 361

EC 1613, Engineering Management 301, Case Studies in Project Management, approved effective Fall 2005.

Course Description: Includes the main components of the Project Management Institute (PMI) Body of Knowledge; case studies in project management including project implementation, organizational structures, project estimating, project scheduling, project risk management, and conflict management.

Credit Hours: 3 hour Lecture

Prerequisites: EMgt 361

EC 1614, Education 301, Differentiating Instruction, approved effective Spring 2005.

Course Descriptions: This course is designed to help participants develop lesson plans and instructional strategies that are challenging, engaging and responsive to a variety of needs, interests, learning styles and multiple intelligences of the students in their classrooms.

Credit Hours: 1 hour Lecture

Prerequisites: current K-12 educator

EC 1615, Computer Engineering 401, Mechanical Engineering 401, Engineering Management 401, Markov Decision Processes, approved effective Spring 2005.

Course Description: Introduction to Markov Decision Processes and dynamic Programming. Application to Inventory Control and other optimization and control topics.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing & background of probability or statistics; or permission of the instructor.



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EC 1616, Geological Engineering 301, Electrical Engineering 301, Civil Engineering 301 International Engineering & Design, approved effective Spring 2005.

Course Description: A multi-disciplinary engineering course focused on sustainable design and technology transfer to developing countries. Course includes elements of traditional capstone design classes. Experiential learning through competitions and/or field work is a major component of the class.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Senior standing, Instructor approval

EC 1624, Civil Engineering 401, Traffic Flow Theory and Traffic Simulation, approved effective Spring 2005.

Course Description: This course will cover the concepts of traffic flow theory and discuss how they serve as the foundation for simulation models. The course will focus on how human factors, car following theory, and flows at intersections are incorporated in to specific simulation packages such as SimTraffic, CORSIM, and VISSIM.

Credit Hours 3 hour Lecture

Prerequisites: Graduate standing

EC 1625, Civil Engineering 401, Advanced Traffic Signal Operations, approved effective Spring 2006.

Course Description: Discuss the role and function of a traffic signal components: the signal controller, conflict monitor, vehicle detectors, etc. Discuss layout of traffic signal hardware at an intersection. Discuss the phasing/timing of traffic signals in detail.

Credit Hours: 3 hour Lecture

Prerequisites: CE 353

EC 1626, Engineering Management 401, Tolerance Design, approved effective Fall 2005.

Course Description: This course is an examination of the theory and practice of the science of allowance allocation for high quality and low cost manufacture of consumer products. Of particular interest are technology intensive, mass produced products, such as automobiles, trucks, military and commercial airplanes, computers and consumer electronics. Traditional methods of tolerance design will be examined in detail. This includes geometric dimensioning and tolerancing (GD&T), tolerance "stackup", and variation propagation estimates. We then examine in detail the development of economical tolerances (tolerance design) using the Taguchi System of Quality Engineering

Credit Hours: 3 hour Lecture

Prerequisites: EMgt 375 or equivalent

EC 1627, Computer Engineering 301, Electrical Engineering 301, Wireless Networks, approved effective Fall 2005.



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Course Description: Wireless communications and networking overview. Transmission fundamentals, wireless channel, signal coding techniques, error control, satellite communications, cellular networks, cordless systems, mobile IP, mobility management, multiple access techniques, wireless access protocols, wireless LAN, IEEE 802.11, introduction to wireless adhoc & sensor networks.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: EE 243 or Cp Eng 213; and hardware competency

EC 1628, Electrical Engineering 301, Fundamentals of Nondestructive Testing Techniques, approved effective Fall 2005.

Course Description: This course will introduce senior and graduate students to the foundations of several standard NDT techniques such as eddy current, UT, x-ray radiography, microwaves, etc.

Credit Hours: 3 hour Lecture

Prerequisites: Senior Standing

EC 1631, IST 301, Introduction to Business Intelligence, approved effective Fall 2005.

Course Description: Application of “intelligent” techniques from CS (AI, data mining), and OR (stochastic modeling, simulation, forecasting) to business decision-making. Overview of the theory, but with a focus on the application to business problem solving. Use of SAP as a tool to explain and explore how an enterprise system utilizes the techniques in, for example, retaining customers and optimizing processes.

Credit Hours: 3 hour Lecture

Prerequisites: Database experience

EC 1632, IST 401, Social Informatics, approved effective Fall 2005.

Course Description: This course will examine the impact that information technology has on organizations and society. We will study the relationship between the social world and technical systems from a sociotechnical perspective. The course will introduce students to the field of social informatics.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate Standing

EC 1633, IST 401, Essentials of Data Warehousing, approved effective Fall 2005.

Course Description: This course presents the topic of data warehousing and the value to the organization. It takes the student from the database platform to structuring a data warehouse environment. Focus is placed on simplicity and addressing the user community needs.

Credit Hours: 3 hour Lecture

Prerequisites: IST 223 or CS 304 or equivalent relational database experience



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EC 1638, Mechanical Engineering 401, Aerospace Engineering 401, Linear and Nonlinear Estimation – Theory and Applications, approved effective Spring 2005.

Course Description: This course deals with the development and applications of linear and nonlinear estimation methods. It will begin with discussion on random processes and probability density functions. Formulation and development of Kalman filter for linear systems will be presented. Extended Kalman filter (EKF) for nonlinear systems will be developed and discussed at length.

Credit Hours: 3 hour Lecture

Prerequisites: ME/AE 381, ME/AE 479, or equivalent

EC 1639, Basic Engineering 301, Engineering Design Projects, approved effective Spring 2005.

Course Description: Design lectures are given on a variety of interdisciplinary design and teaming topics including team memo and report writing; patent search and application; prototyping techniques; conflict resolution; critiquing methods; and presentation skills. Student teams will complete a design project for an external or internal sponsor and produce a working prototype of the product.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: BE 220

J. Keith Nisbett, Chair
UMR Campus Curricula Committee

Academic Council

@ University of Missouri Rolla

About Academic Council

Volume XXXXI, Number 11
Minutes of the Academic Council Meeting
December 1 , 2004
MS Word Format

Committee Members

Upcoming Meetings

XXXXI, 11 The meeting was called to order at 4:00 p.m. by Secretary Kurt Kosabar. Since this was a special meeting held for discussion purposes, no roll was taken.

Meeting Minutes

1 NEW BUSINESS

Bylaws

A. Chancellor Search Committee Report was given by Larry Gragg.

Planning

Larry Gragg gave a five-minute presentation on what the Chancellor Search Committee has been doing, and explained how they reached the decision that was made.

B. Discussion



Motion was made to suspend Robert's Rules of Order to have an open discussion for 45 minutes. There was a second. Discussion was held, and the motion was amended to have the discussion for 20 minutes. Motion was then approved.

After the time expired, another motion was made from the floor from Matt Insall proxy for V. A. Smaranayake.
Motion:

"The academic council will elect an advisory committee of about half a dozen faculty members, who will be, under an oath of confidentiality, allowed to have access to the application files of all applicants in a short list. They will be given a certain amount of time to make discrete inquiries about the candidates in the list and provide input to the selection committee. This input can be in the form of a list of desirable candidates from those among the short list (or a list of unacceptable candidates), in rank order." A vote was taken with a show of hands from the voting members of the Academic Council. Vote was 13 in favor of the motion, and 10 not in favor. Motion passed.

There was a motion to adjourn the meeting and seconded. Meeting adjourned at 5:10 p.m.

Respectfully submitted,
(electronically submitted, 12/03/04)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official

notification and documentation of actions approved.

**Home | [Committee Members](#) | [Upcoming Meetings](#) |
[Meeting Minutes](#) | [Bylaws](#)**

***Last updated: by acadcoun@umr.edu*
Web Site Design by the UMR Web Group**



ACADEMIC COUNCIL
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Academic Council Meeting Agenda

Special Meeting to Discuss Chancellor Search Process

Wednesday, Dec. 1, 2004
204 McNutt Hall; 4:00 P.M.

- | | |
|---------------------------------------|-----------|
| I. Call to Order | K. Kosbar |
| II. New Business | |
| A. Chancellor Search Committee Report | L. Gragg |
| B. Discussion | |

Kurt Kosbar

From: All Ranked Faculty [ALLFAC-L@UMR.EDU] on behalf of Jaquess, Lois [jaquessl@UMR.EDU]
Sent: Wednesday, November 24, 2004 10:06 AM
To: ALLFAC-L@UMR.EDU
Subject: FW: Special Meeting of Academic Council

Attachments: Committee Report.doc; Search Process.doc



Committee Report.doc (43 KB) Search Process.doc (38 KB)

Dear Colleagues,

As President of Academic Council with the consent of the Rules, Procedure and Agenda Committee, I am calling a special meeting of the Academic Council to be held on December 1 at 4:00 PM in McNutt 204. The purpose of this meeting is for Academic Council and other members of the campus community to discuss various facets of the search and interview process with as many members of the Chancellor Search Committee as can attend. By the bylaws, the business of a special meeting must be restricted to the stated purpose for which the meeting was called. Hence, the assembly may only offer discussion and motions related to the Chancellor Search process at this meeting.

As Academic Council has twice spoken with Prof. Gragg who is the chair of the Search Committee, I would like the meeting to not begin with extensive re-summary of discussion that has already occurred. To facilitate this, I have attached two documents. One is the Committee Report that summarizes many of the questions and answers Prof. Gragg has previously offered Academic Council. The other document called Search Process is a new document that RP&A requested Prof. Gragg to write. It details the steps that the Search Committee has and will following throughout the search. I respectfully ask that you read these before the meeting.

It should be noted that it was desired for a representative of the search firm with whom we have contracted to be present at this meeting. After spending nearly a week attempting to arrange this, it has become apparent to me that we could not find a meeting time appropriate for the faculty when the a representative of the firm could be available. It was my decision to proceed with this meeting without them. It is my belief that the timeliness of the issues at hand superceded the need to have a representative present.

Finally, I would comment that the Chancellor Search committee is an advisory panel established and empowered by President Floyd. With this in mind, I would ask all faculty to approach this special meeting in a spirit of cooperation in order to find a means by which we can assist this committee in the difficult task of making the best possible recommendations to President Floyd, who ultimately bears the responsibility of selecting our next Chancellor.

I hope that everyone has a Happy Thanksgiving!

Warm regards,

Search Process

1. On September 14, 2004 University of Missouri President Elson Floyd announced the appointment of 17-member search committee to assist him in the selection of a new chancellor for UMR. In response to suggestions from the campus, President Floyd subsequently added three members to the committee from three unrepresented units on campus—Student Affairs, University Advancement, and Administrative Services. The completed committee includes:

• **Dr. Craig Adams**

John and Susan Mathes Missouri Professor of Environmental Engineering at UMR and director of the UMR Environmental Research Center

• **Dr. Richard K. Brow**

professor and chair of materials science and engineering at UMR

• **Dr. Carl Burns**

director of counseling and academic support programs

• **Dr. Harvest Collier**

professor of chemistry at UMR and vice provost for graduate and undergraduate studies

• **Connie Eggert**

UMR vice chancellor of university advancement

• **Jennifer Fry**

chair of the UMR Staff Council and an environmental specialist in the environmental health and safety department at UMR

• **Dr. Jerry Giger**

associate superintendent for curriculum of Rolla Public Schools

• **Jay Goff**

UMR dean of enrollment management

• **Dr. Richard Hall**

associate dean of the UMR School of Management and Information Systems and associate professor of information science and technology

• **Larry Hendren**

president of the MSM-UMR Alumni Association and president of Engineering Surveys and Services, Columbia, Mo.

• **Dr. Michael G. Hilgers**

president of the UMR Academic Council and associate professor of computer science

• **Dr. Paula M. Lutz**

dean of the UMR College of Arts and Sciences

• **John Mathes**

a member of the UMR Board of Trustees and curator emeritus of the University of Missouri

• **Dr. Melanie Mormile**

associate professor of biological sciences at UMR

• **Marvin Patton**

director of physical facilities

• **Dr. E. Keith Stanek**

chair and professor of electrical and computer engineering at UMR

• **Laura Stoll**

UMR registrar

• **Julia Rosemann**

UMR Student Council president

• **Prasenjit Shil**

UMR Council of Graduate Students president

2. On October 5, 2004 President Floyd delivered his formal charge to the search committee at a meeting which also included Jan Greenwood and Betty Asher of Greenwood and Associates, the executive recruitment firm retained to assist in the search. David Russell of the University Relations Office also attended.

3. On October 5 and 6, 2004 search committee members, along with Jan Greenwood and Betty Asher, attended open meetings with individuals who report directly to the Chancellor, alumni and town leaders, staff, faculty, and undergraduate students. The search committee chair also attended a meeting of campus graduate students. These meetings gave the groups an opportunity to describe to the committee and the recruitment firm the traits they hoped to see in a new chancellor. The search committee appreciates the involvement of those who attended the meetings. In addition, Dr. Greenwood has received phone calls and email comments from the campus community. These comments have been very helpful to the firm in making their recruitment calls. The firm has reported that they are pleased that they have received more nominations from the campus community than is typical in these searches.

4. On October 12, 2004 the search committee met and, drawing upon what it learned in the open meetings with various constituencies, drafted an advertisement and job description and decided to place the advertisement in the *Chronicle of Higher Education*, *Hispanic Outlook in Higher Education*, and *Black Issues in Higher Education*. Additionally, the committee instructed the chair to establish a campus website to not only post the ad, but also to have a place to update the campus community on the progress of the search. The committee also began to discuss the critical question of whether or not to have a search that is completely closed or one that would have an open phase at the end where finalists would interact with the various campus constituencies. In a completely closed process the names of all candidates, including the finalists, remain confidential and are known only to the people serving in the search process in order to afford the maximum protection for applicants from possible retaliation by their home university. In addition, in the current search market, presidents and chancellors typically turn down opportunities to be candidates in searches that are not closed. There are examples of presidents who were known candidates for other positions losing major donations from potential donors waiting to see if the president took the other position and who have lost legislative funding as legislators chose to see if the president took the other job. The chair instructed committee members to discuss this issue with the people they represented and report their findings.

5. On October 27, 2004 the search committee, drawing upon what committee members had learned from the people they represented, began an extended discussion of the advantages and disadvantages of a closed search.

6. On November 3, 2004 the search committee concluded its discussion on the matter and voted to have a closed search. That is, the names of candidates will be known only to the members of the committee and the recruitment firm. When the finalists for the position visit the campus, there will be no forums for questions.

The committee based this decision largely on two critical factors. First, the committee learned that in the past decade a rapidly developing trend among research-intensive universities is to opt for closed searches for chancellors and presidents. Sitting provosts, chancellors, and presidents are ever more reluctant to enter searches which feature an open phase because their governing boards are ever more willing to punish them for doing so. Presidents have been dismissed once their candidacy for another position has been announced. This was an important factor because the committee wanted the richest possible pool of candidates for the position. Second, the search committee, which represents five constituencies (faculty, staff, students, alumni, and the Rolla community), received a mixed message in discussions with people members represent. From a variety of departmental and school votes, emails, discussions, and two votes in the Academic Council, it was clear that a majority of faculty members are opposed to a closed search. The sentiment was not unanimous, but was strongly in favor of an open search. The committee discovered, however, that among the other four constituencies, most of the sentiment was somewhere between being willing to support either an open or a closed search and strong sentiment for a closed search. Many faculty members have made it clear that, among the five constituencies, the point of view of the faculty must be paramount. However, in open forums, which were held to determine what characteristics that the committee should seek in a chancellor, committee members learned that most wanted a person who would be able “to communicate and partner with all internal and external constituencies.” Given the expectation that a new chancellor will need to work effectively with numerous groups internally and external to the campus, the committee could not disregard the views of the other four constituencies in making its decision.

7. Future phases of the search:

- A. The committee has completed the planning phase with the posting of the advertisement and the development of marketing materials to send to candidates and is in the recruiting phase where we are beginning to receive nominations and responses to the advertisement.
- B. The next phase will feature a review of resumes as a necessary step in determining the number of people to invite for a first round of interviews.
- C. Once the committee determines the list of finalists, there will be thorough background checks and contacts made with references and with people not on the candidates' lists of references.
- D. The search committee will then invite the finalists for campus visits. These visits will be confidential and will give the finalists an opportunity to see the campus.
- E. After a thorough review of interviews and referencing, the committee will submit a list of three unranked names for President Floyd's consideration.

F. President Floyd will select the candidate subject to the approval of the Board of Curators.

Mike Hilgers, in his capacity as presiding officer of Academic Council, suggested to me that I report to you on the questions that faculty members have submitted to me about the search for a new chancellor. I am happy to do so. If my answers to the questions prompt other queries on your part, please let me know.

First, let me say that I appreciated the opportunity to meet with the Arts and Sciences Chairs, the Campus Chairs, and the Academic Council. Several of you posed very good questions and expressed earnestly held convictions about the nature of searches. Most importantly, it was clear that the motive for your questions and comments was the greater good of the campus. That is the perspective of the members of the committee as well. At all points in our deliberations, we have kept what is best for UMR as our most important goal.

Second, let me note several of the questions I have received and my responses.

1. How was the search committee formed?

Shortly after Chancellor Thomas announced that this would be his last year President Elson Floyd asked me to consider serving as chair of the search committee. At that time, he discussed his desire to form a broadly constituted committee that would represent the interests of the whole campus community (faculty, students, staff, alumni, and the local community) in a rich and diverse fashion. He discussed the names of some possible committee members with me at that time and allowed me to offer comments. Intercampus Faculty Council Representatives Mike Hilgers and Robert Schwartz asked President Floyd if it would be possible to hold an election for the faculty representatives on the committee. He said that while he valued their suggestion, in his experience elected search committees often lack the diversity he believes is critical for a healthy and vital search. So his approach is to solicit opinions from faculty leadership about potential members, but in the end it is his responsibility to ensure that a balance has been achieved that transcends traditional divisional lines and that he does this by appointing the best possible people he can find.

2. Are most chancellor and president search committees across the country elected or appointed?

Most are appointed committees. In the searches assisted by the recruitment firm we are working with the average committee size is 11. Ours is one of the largest and most diverse they have worked with. Yet, it has a significant number of faculty members. The secondary literature on executive search committees indicates that a growing trend is to diminish dramatically faculty participation on such committees. That is not the case with ours. We have several and they are earnest participants.

3. Was the committee responding to a directive in making its decision for a closed search?

No. President Floyd gave us one charge, "Present me with three unranked names." Beyond that, he left the process in our hands.

4. Who is the recruitment firm retained to assist us in the search and how good are they?

Greenwood and Associates has assisted in 300 searches for academic executive-level positions: provost, chancellor, vice-president, president, etc. In all of their searches, the client institution ended up with a hire from the pool of candidates Greenwood and Associates assisted in creating.

5. What kinds of institutions have they assisted?

They have worked with small liberal arts schools, regional state universities, and major research institutions. A sample of the schools they have assisted includes Arizona State University, Columbia University, Fordham, Hofstra, American University, Georgetown University, University of Florida, and Ohio State University.

6. How did the committee reach its decision for a closed search?

There were two primary factors. First, we learned that in the past decade a rapidly developing trend among research-intensive universities is to opt for closed searches for chancellors and presidents. The fundamental reason is that sitting provosts, chancellors, and presidents are ever more reluctant to enter searches which feature an open phase because their governing boards are ever more willing to punish them for doing so. Presidents have been dismissed once their candidacy for another position has been announced. This was an important factor for us because we wanted the richest possible pool of candidates for the position. Second, since we are an appointed committee, I asked committee members to talk with the people they work with on a daily basis to determine the opinions on and off campus on a closed search. Members collected opinions for more than two weeks and reported their findings to me which I collected and then shared with the entire committee. Our committee, which represents five constituencies—faculty, staff, students, alumni, and the Rolla community—learned the following. A majority of faculty members are opposed to a closed search. We based this conclusion upon votes in several departments and schools, a vote in the Academic Council, and from emails and conversations. The sentiment was not unanimous, but was strongly in favor of an open search. We discovered, however, that among the other four constituencies, most of the sentiment was somewhere between being willing to support either an open or a closed search and strong sentiment for a closed search. We thus had a mixed message, one that gave us no clear direction. Many faculty members have told me that, among the five constituencies, the point of view of the faculty must be paramount. Clearly, one could make a strong case for that position. However, in our open forums, which we held to determine what characteristics we should seek in a chancellor, we learned that most wanted a person who would be able "to communicate and partner with

all internal and external constituencies.” Given that we expect a new chancellor to work effectively with numerous groups internally and external to the campus, we could not disregard the views of the other four constituencies in making our decision. Finally, as I mentioned in my meeting with the Academic Council, there are very strong faculty voices currently on the committee. Everyone around the table is always aware of the faculty position on every issue that arises in our discussion.

7. Will the search committee contact people not on the reference list of candidates as a background check?

Yes. Checking with people the candidates reported to, their peers, and people who reported to them will be critical.

8. Will finalists have their dossiers reviewed by the department that would grant them tenure?

In checking with Phyllis McCoy and Ken Hutchinson (with the UM system), the answer is appointees usually have their review after their appointment. Mr. Hutchinson did not know of instances where it was done prior to the appointment. Specifically, he noted the case of the new chancellor at UMSL who had his dossier reviewed after his appointment.

9. Will the committee keep the campus updated on the progress of the search?

Yes. We will provide updates on each phase of the search on our campus website:

<http://campus.umar.edu/chancellorsearch>

The committee also urges all to submit to us questions they would like us to ask of the candidates.

10. How does one nominate someone for the position?

Go to the website and scroll to the end of the job advertisement and you will find instructions on making nominations.

I have received other questions which I am still researching and will report to you when I have complete answers.

Larry Gragg
Chair, Chancellor Search Committee
lgragg@umar.edu

Academic Council

@ University of Missouri Rolla

About Academic Council Volume XXXX, Number 10
Committee Members Minutes of the Academic Council Meeting
 November 11, 2004

Upcoming Meetings

Meeting Minutes

Bylaws



XXXX, 10 The meeting was called to order at 1:30 p.m. by President Michael Hilgers. Roll call was taken, and absentees noted were: Paul Hamacher, Charles Chusuei, Pericles Stavropolous, Trent Watts, Michael Meagher, Mark Mullin, Robert Stone, Neil Book, Roger LaBoube, Tom Petry, Hal Nystrom, S. N. Balakrishnan, Michael Davis (with Gregory Gelles substituting), Gary Thomas, Y T Shah (with Harvest Collier substituting), Paula Lutz (with Paul Parris substituting), and Mariesa Crow (with Bob Laudon substituting).

There was a motion and second to approve the minutes of the September 16, 2004 Academic Council meeting. The Academic Council body voted to accept the minutes.

Michael Hilgers made a motion that the Agenda be revised to accept Jerry Gragg on the agenda to speak about the Chancellor's Search Committee. Motion was seconded, and approved by the committee.

1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - This report was presented by Academic Council President Michael Hilgers.

a. Strategic Planning

UM System has established a system-wide strategic plan. The system has 16 areas, and they have strategy for achieving these things. Academic Council has been charged with developing the strategic plan for this campus. The chancellor and the provost want this assembly to lead this process. And the responsibility has fallen on the shoulders of Michael Hilgers as he is the President of

Academic Council. Mike has formed a steering committee that is overseeing the process with two major subcommittees; a research allocation management committee; and the vision committee. The faculty has been saying that they want more say in the government, and this is our opportunity. We are in the middle of a new chancellor search process. We really need to hand the candidates a well-organized strategic plan which we have had campus-wide discussion. On our Academic Council web-site there is a link to the planning web site. Please check this out as new information is posted often. Two main investigative themes that have been discussed over the last six months. 1. We have been looking at the state of financial help with the University, and 2. We have been looking at marketing analysis. One thing is very true is that students are our primary source of revenue. The state used to be, but with budget cuts, and different priorities set by the state, students are now our primary source of revenue. We also get money through gifts and research. So we need to think about what we need to do as a campus to get out and get revenue. We know that in 2008 we will be facing a decline in student revenues. As we go through the market analysis we need to find ways to make us look more attractive to the students. We look at the market place to play and win and that is what

the strategic plan is. We need to recruit our Ph.D. level students now. We can't do UMR business as usual. We are going to have to sell ourselves to the companies that recruit the students, parents, companies that hire our students, research and companies. And, we have to market ourselves to get these students, and this is what the strategic plan is all about. Mike's main goal is to have a strategic plan in place to put in the hands of the chancellor candidates. Mike's bottom line is I need your help, and wants to see more and more conversations going on about the strategic plan.

b RP & A is working on procedural guidelines on how referrals are handled and meetings are run. We are trying to go to a paperless meetings and get the material in your hands well in advance of the the meeting so you can give it more thoughtful consideration before you attend. Part of this is because we carry a lot of responsibility because of the strategic planning effort.

c Inter-Campus Faculty Council-continue to discuss the issue of non-regular faculty. System to develop the rights, responsibilities and privileges that should be afforded to non-regular faculty in our system. We referred an item to our personnel committee that is an operations incentive plan. UMR was again praised for their contribution.

d The faculty accomplishment system is functional. We will be doing our faculty accomplishment this spring. Start putting your activities in now.

e President Floyd raised a couple of issues. One of the issues he looked at is when he looks over the system as a whole he sees some strong inconsistencies of when it comes to the tenure and promotion process with regards to student input to the process. He said there isn't a coherent process with that. Amendment 3 was discussed.

f The Board of Curators will be visiting next week and there will be some open forums, and we will be hosting a breakfast where we will be showcasing a few things that are happening on the campus.

B. Chancellor's Search Committee - This report was present by Larry Gragg

Question: Did this committee make this decision made by directive? The only directive we got from President Floyd was give him three un-ranked names. President Floyd retained the consultants that we are paying for.

Concern: Did the faculty have an adequate voice on the committee, because most of the people on the committee are not faculty. The faculty that has been appointed on this committee are folks that are quite willing and able to represent the faculty.

Question: What experience does the firm have that President Floyd has retained. The firm, Greenwood Associates has done 300 executive level academic search's. Institutions they have assisted are Arizona State, American University, Georgetown, Fordham, Ohio State, and University of Florida-Gainesville. They have mainly done searches for chancellors, presidents, and provosts. Are they any good? They have not failed to bring a search to a successful close in the sense that the pool that they assisted with included a person that was hired. Their contention is that the 300 searches have resulted in a hire from their pool.

Question: Do the top universities use closed searches, or do they tend to have open searches. Trend line is for research intensive searches and elite private universities go to closed searches. Why is there this significant break is because competition is very intense. Sitting chancellors, sitting provosts, and sitting presidents are not interested in entering an open search because governing boards are becoming very punitive in their response when they find out. The driving force behind the closed search is that we want the best possible candidates to choose from

Question: Did UMSL use this closed search? UMSL used a closed search, and they said this was absolutely the best possible thing to do.

Search for President Floyd was a closed search, and he would not have applied if it was an open search because he was a sitting president.

How we made the decision to have a closed search. President Floyd charged us to give him 3 names un-ranked, and said this is your search, and got up and left. Two members of the Greenwood and Associates were there with us. This is when we begin to learn more about the trend of these closed searches. The committee was an appointed committee instead of an elected one. Jay Gragg wasn't comfortable with a closed search because all searches he has been involved with had been open searches. Greenwood and Associates said they weren't trying to tell us how to do our search, they were just informing the committee what the trend is now. The committee decided to interact with people and find out what our constituents wanted us to do. We represent 5 different groups the faculty, students, staff, alumni, and one member representing the Rolla community. People responded with e-mails, conversations, and some units decided to do votes. Near the end of the meeting we took a vote for the Academic Council. The vote was 15-0. When the committee looked at the results there was a mixed message being sent as to what the faculty wanted. So the committee had no clear direction and took the findings that they had and decided that

the likelihood that we will get a stronger and richer pool of candidates with a closed search, and that is why we came to that decision. **Costs:**

- 1** No matter how poorly or well I explain this many will leave the room frustrated, disappointed, angry and outrage because they did not have any input. In doing this we have raised the bar for the new chancellor.
- 2** The person President Floyd picks is going to have some fence mending that they are going to have to deal with.
- 3** Now the committee has the whole job. Twenty of us are responsible for the next chancellor and the accountability is now ours.
- 4** There is another cost and it is personal. I have been here 28 years and every one thinks of me as a good guy or guy with integrity. But I have put all the capital of everyone to chair this committee and then go out and defend the decision that we make.

Motion was made to take a vote that we believe that the search should be closed. Motion was seconded and vote was taken. Nay carried. Hand count was taken with nays-15 and yea's-7.

Mike Hilgers turned the meeting over to Robert Schwartz as he had to attend a thesis presentation.

B. CHANCELLOR'S REPORT - This report was presented by Dean Robert Mitchell.

Mechanical Engineering Building. this is part of the strategic plan progress. We are the 52nd national public research university. Facilities have made a big difference. Emerson was built in 1998 and Civil was finished in

2003. The ME building is named Toomey Hall as they have donated \$5 million dollars. All we need is 24 million for the new building. Forget that it will cost \$24 million. This is our future. This is our biggest department and everyone will benefit from this. Can we pay for this? The state is not looking too good right now, but it is early yet. Governor Blunt has not named a budget director yet, and the \$75 million Mike said \$40-\$50 million hole created by Amendment 3. Governor Blunt, Senator Wheeler and our lobbyists may actually support a bond issue for construction projects. Maybe up to \$300 million for academic buildings. If we get our percent share of this it would be \$15 million we would have \$6.2 million towards this building through private money. All the bond money may be directed to Life Science. We are making Missouri a Life Science state because that is where the future is. Toomey Hall is our highest priority and it will be on our list if Governor Blunt approves our \$300 bond money we are up to \$15 million, if it is not restricted to Life Science. If that doesn't happen we need to start this building now. We'll need \$11.2 million in private funds. Until we get \$5 million we will not do anything with this. We have to borrow \$10.8 million for this building. The middle line is we do it ourselves. We wouldn't lose the Life Science Building, but we would have to invest our own money in this.

C. PROVOST'S REPORT - This report was presented Harvest Collier.

a IT - They are reporting fall of

computer account maintenance in November due to people leaving whether it be students, faculty, or employees. Reports that Application teams prepare for Blackboard inter session maintenance. There is a window between semesters blackboard courses are used in closing semesters are cleared of enrollment and instruction data and recycled. Progress is being made on the IT support transition for physical facilities. Web Help desk survey was recently put into production. The survey allows people to give feedback for every trouble ticket entered/completed. The FSA atlas for software used to meet Federal requirements tracking international student was successfully upgraded. New web site for Distance and Continuing Education was migrated by IT application teams into documentum and launched November 4.

b Enterprise reporting - University-Wide initiation has begun to identify reporting solution for reporting from peoplesoft suite of software to UMR offices of Institutional Research and IT are participating and evaluating the product for the corporation that provides that software.

c Networks and computing - the voice over on IP has been completed in the ME Annex building gearing up the voice in IP in Civil and Havener Center is being brought on line.

d Library - newspaper digitalization is being announced. and electronic resource initiative is being announced. UMR library

system office has received \$500,000 as part of Pres. Floyd matching money program. We will be receiving a matching amount from the campuses, all of which will be used to purchase additional electronic resources for use by campuses.

e From the solution center: the department desktop enhancement program is currently in phase two with departments verifying their replacement plans.

f The Office of Graduate and Undergraduate studies - there has been a series of advising conferences being placed on this campus with 5 sessions planned through the end of the academic year seeking to build capacity to successfully assist the students to better achieve their academic objectives. These local conferences will provide critical insight on advising best practices and relationship between advising and student academic success. This also initiated a series of workshops involving faculty and response to their growing interest in the identification and implementation of best practices as it relates to students learning math, science, and engineering.

g The center for education research and teaching innovation is developing a series of distinguished workshops and including visiting academic admissions and offering faculty first-hand engagement in the successful implementation of best practices in daily teaching processes. There has been a series of leadership luncheons that have been initiated as well by CERTI and provides an avenue for timely

discussion on relative issues as in campus leadership, and by developing this series it has permitted an opportunity for visiting well-known educators to come to the campus and offer outside of the box perspectives where science and engineering education will be going.

h Lastly a note from Henry Wiebe - At the last session Academic Council approved the UMR Global to School of Extended Learning effective 7/1. Pres. Floyd has approved Henry's title from Vice-Provost to Dean of the School of UMR School of Extended Learning.

3 REPORTS OF STANDING AND SPECIAL COMMITTEES

a Curricula -
Recommended changes in the degree proposals and were passed by the Academic Council. Also CC forms were passed by the Academic Council.

b Student Affairs - No report

c Personnel Committee
- No report

4 NEW BUSINESS AND ANNOUNCEMENTS

a Motion by Jerry Cohen to establish a new a AC members to have access to this all faculty e-mail list. The Academic Council members will henceforth be given access to an all-faculty email list (titled AC-L; **all non-faculty Academic Council Members will be included**), separate from the administration's all-faculty list

(which has no opt-out possibility) and constructed with an opt-out possibility for UMR faculty who do not wish to receive mailings from the AC members. Members who avail themselves of the list shall limit their messages to items dealing with UMR campus governance (vs. e.g., announcement of events) and shall abide by acceptable usage policies specified by the Rules, Procedures and Agenda committee. Members who violate these regulations may have their AC-L privileges revoked by a two-thirds vote of the Academic Council members **present** at the Council's next regularly scheduled meeting. Also, for reasons of anti-virus protection, no attachments may be sent by the AC members on the AC-L e-mail list. Motion was accepted with revisions in bold and passed by the council.

b RP&A has appointed Administrative Review Committee for the coming year, and Frank Blum in in charge of this.

c Staff Council: No report

d Student Council: Open forum on student activities fees voted on it and it will go up less than 1% and will go by the Chancellor and Board of Curators and we will know about that. We also had a presentation from IT and health services on what they do with our fees with them. CERTI group on PRS devices on feedback from students.

e Council of Graduate Students - no report.

f Referrals - None.

Robert Schwartz adjourned the meeting at 3:00 p.m.

Respectfully submitted,
(electronically submitted, 11/30/04)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.

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Memo To: Academic Council
From: UMR Campus Curriculum Committee Meeting
RE: November 4, 2004 Meeting

The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.

Approved DC forms:

DC 0124, College of Arts and Sciences; School of Materials, Energy, & Earth Resources, Chemistry, Geological Sciences & Engineering, Mathematics, Physics, approved effective Fall 2005.

A proposal to modify the Master of Science for Teachers program.

DC 0132, College of Arts & Sciences, Psychology, approved effective Fall 2005. A proposal to change the current curriculum for the BA and BS in Psychology by removing Psychology 10.

DC 0135, SMIS, Business and Management Systems, approved effective Fall 2005. A proposal to modify the current curriculum for the BS in Business and Management Systems by deleting English 281 and adding English 260.

DC 0136, SoMEER, Materials Science & Engineering, approved effective Fall 2005. A proposal to change the Masters of Engineering in Materials Engineering to a Masters of Science in Materials Science & Engineering.

DC 0138, SoMEER, Mining Engineering, approved effective Fall 2005. A proposal to create a new minor under the Mining Engineering Program called Explosives Engineering.

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 5829, Chemistry 203, MST General Chemistry Lab, new course approved effective Spring 2005.

Catalog Description: The laboratory work accompanying the MST chemistry courses consists of experiments designed to supplement the lecture work in chemistry. This course is primarily intended for secondary education science teachers. Credit will not be given for both Chemistry 2 and Chemistry 203.

Credit Hours: 1 hour Lab



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Prerequisites: Entrance requirements for the MST program. Preceded or accompanied by Chem 204 or equivalent training program approved by UMR.

CC 5830, Chemistry 204, Lab Safety and Environmental Safety, new course approved effective Spring 2005.

Catalog Description: A systematic study of safe laboratory operations and pertinent regulations of state and federal agencies. This course is primarily intended for secondary education science teachers. Credit will not be given for both Chemistry 4 and Chemistry 204.

Credit Hours: 1 hour Lecture

Prerequisites: Entrance requirements for the MST program

CC 5831, Geology 307, Physical Oceanography, new course approved effective Spring 2005.

Catalog Description: An introduction to the study of the physical and geological processes in the world's oceans including the importance of the oceans to the environment and to life on Earth.

Credit Hours: 3 hour Lecture

Prerequisites: Geology 325 or equivalent

CC 5832, Geology 308, Astronomy and Planetary Science, new course approved effective Spring 2005.

Catalog Description: Basic principles of astronomy, the origin and evolution of the universe, stellar evolution, and the origin, composition, and processes operating on the planetary bodies in the solar system (besides the Earth).

Credit Hours: 3 hour Lecture

Prerequisites: Entrance requirements for the MST program in Earth Science

CC 5833, Geology 309, Meteorology and Climatology, new course approved effective Spring 2005.

Catalog Description: An introduction to the atmospheric and climatic systems of the Earth including weather, paleoclimatology, and global climate change.

Credit Hours: 3 hour Lecture

Prerequisites: Geology 325 or equivalent

CC 5834, Geology 326, Advanced Historical Geology, new course approved effective Spring 2005.

Catalog Description: Study of the physical and biological history of the Earth beginning with the origin of the solar system up to the present. Emphasis will be placed on processes that shaped the Earth and its ecosystems.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Entrance requirements for the MST program in Earth Science



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CC 5835, Geology 405, Geology of Natural Resources, new course approved effective Spring 2005.

Catalog Description: The origin and distribution of economically important natural resources including soils, water resources, metals, non-metals, building materials, petroleum, and other energy resources.

Credit Hours: 3 hour Lecture

Prerequisites: Geology 325 and 326 or equivalents

CC 5836, Geology 407, Environmental Geology, new course approved effective Spring 2005.

Catalog Description: Overview of environmental problems facing humans. Emphasis will be placed on surface and groundwater pollution, geological hazards, and pressures on Earth's ecosystems and natural resources by urbanization and population growth.

Credit Hours: 3 hour Lecture

Prerequisites: Geology 325 and 326 or equivalents

CC 5837, Geology 470, Field and Laboratory Studies in Earth Science, new course approved effective Spring 2005.

Catalog Description: Hands-on laboratory and field experiences in the Earth Sciences.

This course is designed to be taught in an intensive three week session during the summer on the UMR campus.

Credit Hours: 3 hour Lab

Prerequisites: Geology 325 and 326 or equivalents, and at least one additional course in the MST Earth Science program.

CC 5838, Physics 404, Advanced Physics Laboratory Teaching Methods, new course approved effective Spring 2005.

Catalog Description: Objectives, methods and problems related to teaching of introductory physics, with an emphasis on laboratory instruction, the development of educational laboratory experiments and techniques, student learning styles, student assessment, student work groups, computer-based data acquisition, and communication techniques.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate Standing

CC 5839, Physics 306, Physics, Energy, and the Environment, new course approved effective Spring 2005.

Catalog Description: Applications of physics to the environment, including energy, its conservation and transformation, environmental consequences of energy use; world energy resources; atmospheric physics; sources of air, water, and land pollution, and the role physics plays in controlling those resources. May not be used as a 300-level elective for a B.S. in Physics.

Credit Hours: 3 hour Lecture



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Prerequisites: Admission to the MST program

CC 5840, Physics 309, Astrophysical Concepts, new course approved effective Spring 2005.

Catalog Description: A comprehensive course in modern astrophysics. Topics include: Earth and sky, planetary science, stellar structure and evolution, galaxies, and structure and evolution of the universe. This course includes hands-on computer simulation and telescope use. (For secondary teachers or Master of Science for Teachers candidates.)

Credit Hours: 3 hour Lecture

Prerequisites: Math 22 or admission to the MST program

CC 5863, Comp Sci 311, Biological Sciences 311, Bioinformatics, new course approved effective Spring 2005.

Catalog Description: The course will familiarize students with the application of computational methods to biology, as viewed from both perspectives. It will introduce problems in molecular, structural, morphological, and biodiversity informatics, and will discuss principles, algorithms, and software to address them.

Credit Hours: 3 hour Lecture

Prerequisites: Junior standing or above

CC 5865, English 115, Practical Grammar, new course approved effective Spring 2005.

Catalog Description: Practical Grammar studies traditions and logic that govern the language that we speak and write. It begins with the parts of speech and progresses through the ways acceptable sentences are made from them. It includes a review of punctuation.

Credit Hours: 3 hour Lecture

Prerequisites: None

CC 5879, Music 30, University Band, change approved effective Spring 2005.

Credit Hours – Present: 1 hour Lab

Proposed: 2 hour Lab

CC 5880, Music 32, University Orchestra, change approved effective Spring 2005.

Credit Hours – Present: 1 hour Lab

Proposed: 2 hour Lab

CC 5882, IST 435, Mobile Data Management and Applications, change approved effective Fall 2005.

Catalog Description – Present: Mobile constraints, mobile architecture, location dependent data management, mobile transaction processing, caching on mobile platforms, data organization for mobile applications.



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Proposed: This course will describe and evaluate various wireless transmission techniques, communication network components and their characteristics, networking protocols, and network architectures. Appraise their use in existing and evolving applications, along with the management implications of such use.

CC 5883, Chem Eng 263, Biochemical Separations, change approved effective Fall 2005.
Prerequisites – Present: Ch Eng 233, 245 and preceded or accompanied by Chem 241
Proposed: Chem Eng 245 and preceded or accompanied by Chem Eng 235

CC 5884, Chem Eng 266, Biochemical Reactor Laboratory, change approved effective Fall 2005.
Prerequisites – Present: Preceded or accompanied by Chem Eng 365
Proposed: Chem Eng 263 and preceded or accompanied by Chem Eng 365

CC 5885, Chem Eng 281, Chemical Engineering Reactor Design, change approved effective Fall 2005.
Prerequisites – Present: Chem Eng 237 or Chem Eng 263, preceded or accompanied by Chem Eng 247, preceded or accompanied by Advanced Biology/Chemistry elective with laboratory
Proposed: Chem Eng 223 or Ch Eng 263; preceded or accompanied by Chem Eng 247

CC 5886, Chem Eng 288, Chemical Process Design, change approved effective Fall 2005.
Prerequisites – Present: Chem Eng 281, preceded or accompanied by Chem Eng 251, 283
Proposed: Chem Eng 235 and Chem Eng 281; preceded or accompanied by Ch Eng 251, Chem Eng 252 and Chem Eng 283

CC 5887, Chem Eng 320, Chemical Process Flowsheeting, change approved effective Fall 2005.
Prerequisites – Present: Chem Eng 235 or graduate standing
Proposed: Math 204 or graduate standing

CC 5888, Chem Eng 335, Intermediate Transport Phenomena, change approved effective Fall 2005.
Prerequisites – Present: Chem Eng 235 or graduate standing
Proposed: Chem Eng 237 or Chem Eng 263 or graduate standing

CC 5889, Chem Eng 355, Intermediate Process Dynamics and Control, change approved effective Fall 2005.
Prerequisites – Present: Chem Eng 251 or graduate standing
Proposed: Chem Eng 235 or graduate standing



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CC 5891, Chem Eng 365, Biochemical Reactors, change approved effective Fall 2005.
Prerequisites – Present: Chem Eng 263 or Chem Eng 235 or graduate standing
Proposed: Preceded or accompanied by Ch Eng 281 or graduate standing

CC 5892, Chem Eng 366, Chemical Process Simulation, change approved effective Fall 2005.

Prerequisites – Present: Chem Eng 262
Proposed: Chem Eng 235 or graduate standing

CC 5893, Chem Eng 371, Environmental Chemodynamics, change approved effective Fall 2005.

Prerequisites – Present: Chem Eng 235 or graduate standing
Proposed: Chem Eng 237 or Chem Eng 263 or graduate standing

CC 5894, Chem Eng 387, Interfacial Phenomena in Chemical Engineering, change approved effective Fall 2005.

Prerequisites – Present: Chem Eng 237, Math 204
Proposed: Chem Eng 237 or Chem Eng 263 or graduate standing

CC 5895, Comp Eng 313, Microprocessor Systems Design, changes approved effective Spring 2005.

Course Title – Proposed: Principles of Computer Architecture

Catalog Description – Present: The design of digital systems based around microcomputers, microcomputer architecture, logic replacement, hardware vs. software tradeoffs, memory design, timing considerations, input/output design, and total system design.

Proposed: Principles of performance measurement and instruction set design; advanced issues in pipelining; instruction level parallelism (dynamic scheduling, branch prediction, multi-issue processors); memory hierarchies for superscalar processors; multiprocessors; storage devices; and network technologies.

CC 5896, IST 151, Introduction to Data Structures and Programming (Java), change approved effective Fall 2005.

Catalog Description – Present: Programming concepts: functions, parameter passing, arrays, strings, classes, templates. Mathematical tools: sets, function and relations, O-notation, complexity of algorithms, proof by induction. Data structures and their representations: data abstraction, sequences, trees, binary search trees, associative structures. Algorithms: searching and sorting, iterative and recursive algorithms. Methods of testing correctness and measuring performance.

Proposed: Provides an intermediate knowledge of programming, with specific references to Java and Object Oriented programming. Major topics include: classes and objects, encapsulation, polymorphism, inheritance, exception



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handling, input/output, data structures (arrays, vectors, linked lists, stacks, queues) and how to manipulate them.

CC 5897, IST 368, Law and Ethics in E-Commerce, new course approved effective Spring 2005.

Catalog Description: Provides the ethical framework to analyze the ethical, legal, and social issues that arise for citizens and computer professionals regarding the computerization of society. Topics include: free speech, privacy, intellectual property, product liability, and professional responsibility.

Credit Hours: 3 hour Lecture

Prerequisites: Any intro Level Philosophy Course

CC 5898, IST 051, Algorithms and Programming (Visual Basic), change approved effective Fall 2005.

Catalog Description – Present: An introduction to algorithm design and analysis, programming, and use of the World Wide Web for information dissemination and retrieval. Additional topics include use of top down design and subprograms to tackle complex problems and abstract data types. Interdisciplinary case studies involving both numerical and nonnumeric applications will be covered.

Proposed: Introduction to programming using Visual Basic.NET. Topics include: basic programming concepts such as variable data, decision-making, and repetitive code; algorithm design and analysis; event-driven design with sub procedures and argument lists; object-oriented concepts. Students will do numerous individual programs as well as several group exercises.

CC 5902, EMgt 378, Introduction to Neural Networks and Applications, course deletion approved effective Spring 2005.

CC 5903, EMgt 419, Network Centric Systems, course deletion approved effective Spring 2005.

CC 5904, EMgt 433, Advanced Management Information Systems, course deletion approved effective Spring 2005.

CC 5905, EMgt 478, Advanced Neural Networks, course deletion approved effective Spring 2005.

CC 5906, EMgt 479, Smart Engineering System Design, course deletion approved effective Spring 2005.

CC 5907, SysEng 378, Introduction to Neural Networks and Applications, new course approved effective Spring 2005. We decided to add the SysEng 378 as a co-list to the



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existing courses, but the catalog description and title had to stay the same as the originals. They need to process a new form to change all of them together.

CC 5908, SysEng 419, Cmp Eng 419, Network Centric Systems, new course approved effective Spring 2005.

Catalog Description: Network-centric systems comprises a diverse category of complex systems with the primary purpose is providing network-type services. Network-centric systems are also known as collaborative systems. This course addresses the intersection between network engineering and the needs of systems architecting and engineering.

Credit Hours: 3 hour Lecture

Prerequisites: Sys Eng 469 or graduate standing

CC 5910, SysEng 478, Advanced Neural Networks, new course approved effective Spring 2005.

Catalog Description: Advanced artificial neural network architectures, namely; Radial-Basis Function Networks, Support Vector Machines, Committee Machines, Principal Components Analysis, Information-Theoretic Models, Stochastic Machines, Neurodynamic Programming, Temporal Processing are the topics covered.

Credit Hours: 3 hour Lecture

Prerequisites: Sys Eng 378 or equivalent neural network course

CC 5911, SysEng 479, Smart Engineering System Design, new course approved effective Spring 2005.

Catalog Description: This course covers the emerging approaches for designing of smart engineering systems architectures for complex systems through evolutionary acquisition, namely; adaptive architecture generation for family of systems, complexity theory, evolutionary programming, fuzzy logic, collaborative behavior, artificial life and chaos.

Credit Hours: 3 hour Lecture

Prerequisites: Sys Eng 378 or graduate standing

CC 5914, Met Eng 305, Nondestructive Testing, changes approved effective Spring 2005.

Catalog Description – Present: Principles and application of various means of nondestructive testing of metallic materials. Radiological inspection methods, ultrasonic testing, magnetic methods, electrical and eddy current methods, and others. In addition, laboratory exercises using industrial grade NDT equipment to inspect a variety of parts and materials.

Proposed: Principles and application of various means of nondestructive testing of metallic materials, Radiological inspection methods,



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ultrasonic testing, magnetic methods, electrical and eddy current methods, and others.

Credit Hours – Present: Lecture: 2 Lab: 1 Total: 3

Proposed: 3 hour Lecture

For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.

Approved EC forms:

EC 1560, Chemistry 301, Chemistry for Secondary Teachers, approved effective Spring 2005.

Course Description: The course is designed to cover advanced chemical principles and applications of quantitative analytical techniques for high school teachers.

Credit Hours: 3 hour Lecture

Prerequisites: General Chemistry

EC 1561, Chemistry 301, MST Organic Chemistry, approved effective Spring 2005.

Course Description: The emphasis of this course will be on fundamental topics in organic chemistry: stereochemistry, reaction mechanisms involving nucleophilic and electrophilic substitution reactions, addition and elimination reactions, and molecular rearrangements. This course is primarily intended for secondary education science teachers.

Credit Hours: 3 hour Lecture

Prerequisites: Entrance requirements for the MST program

EC 1573, History 301, American Transportation History, approved effective Spring 2005.

Course Description: An overview of the transportation experience in the United States since colonial times. Major themes will be patterns of historical development, technological change, government involvement and public response, and the impact on social and cultural life.

Credit Hours: 3 hour Lecture

Prerequisites: History 175 or 176

EC 1574, History 301, American Diplomatic History Since World War II, approved effective Spring 2005.

Course Description: American Diplomatic History Since World War II will address the major issues in American foreign policy from WWII to the present. Its primary focus is on the Cold War and post-Cold War problems the U.S. has faced.

Credit Hours: 3 hour Lecture

Prerequisites: History 176 or Political Science 90

EC 1575, English 201, American Gothic, approved effective Spring 2005.



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Course Description: A study of the gothic genre in American literature and film.
Credit Hours: 3 hour Lecture
Prerequisites: English 20 and a semester of college literature

EC 1576, English 201, Ozark Literature and Culture, approved effective Spring 2005.
Course Description: An examination of literature and customs of the Ozark region of the United States.
Credit Hours: 3 hour Lecture
Prerequisites: English 20 and a semester of college literature

EC 1577, Music 301, Principles of Conducting, approved effective Spring 2005.
Course Description: A study of basic conducting and rehearsal techniques for instrumental and choral ensembles. Additional studies to include score preparation, forms and analysis, and musical interpretation.
Credit Hours: Lecture: 2 Lab: 1 Total: 3
Prerequisites: Music 161, Music 251

EC 1578, Music 301, Symphonic Winds, approved effective Spring 2005.
Course Description: An auditioned ensemble. Students perform music for wind ensemble and large bands. Music from 1400-present is performed in a concert setting.
Credit Hours: 1 hour Lab
Prerequisites: Consent of instructor – audition only

EC 1581, Comp Sci 301, IST 301, Modular Software Systems Design & Development, approved effective Spring 2005.
Course Description: Introduction to Software Life Cycle and characteristics of large modular software systems. Exploration of software support for such systems, using Java, including use of GUI interfaces, advanced I/O and string handling, Interfaces, Threads, and other modularity features. Program project included.
Credit Hours: 3 hour Lecture
Prerequisites: Comp Sci 253 or IST 231

EC 1584, Bio Sci 301, Caribbean Biodiversity, approved effective Spring 2005.
Course Description: This course introduces students to the biota and coral reef communities of San Salvador island. Focus is on examining biodiversity and factors leading to its enhancement and reduction, and modern techniques used to measure and monitor biodiversity. Travel expenses may be required.
Credit Hours: Lecture: 1 Lab: 2 Total: 3
Prerequisites: Sophomore standing or above

EC 1585, Bio Sci 401, Advanced Caribbean Biodiversity, approved effective Spring 2005.



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Course Description: This course introduces students to the biota and coral reef communities of San Salvador Island. Focus is on examining biodiversity and factors leading to its enhancement and reduction, and modern techniques used to measure and monitor biodiversity. An independent research project will be required, travel expenses may be required.

Credit Hours: Lecture: 1 Lab:2 Total: 3

Prerequisites: Graduate student

EC 1586, Education 301, Language Essentials for Teachers of Reading & Spelling, approved effective Spring 2005.

Course Description: Participants will develop an understanding of comprehensive, research-based reading instruction and the ability to implement the instructional strategies in their classrooms. They will utilize frequent formal assessments to determine student mastery of concepts and skills and develop appropriate intervention strategies to ensure that all students are reading on grade level.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing

EC 1587, Comp Sci 401, Advanced Topics in Wireless Networking, approved effective Spring 2005.

Course Description: This course introduces the fundamentals and recent advances in the field of wireless networking. Coverage includes cellular networks, ad hoc networks, and wireless LANs with a focus on network operation. Special topics selected from the literature such as wireless security and sensor networks will also be addressed. Students are expected to finish a research project on a selected topic.

Credit Hours: 3 hour Lecture

Prerequisites: Cmp Sc 285 or equivalent, and graduate standing

EC 1595, Bus 301, New Product Development, approved effective Spring 2005.

Course Description: Analytic, decision-making, and planning concepts and tools available to product managers from a marketing perspective. New product policy and development, organizational issues, and product modification and deletion. Practical training in design and testing of new products.

Credit hours: 3 hour Lecture

Prerequisites: BUS 240 or ENG MG 251

EC 1597, SMIS 101, Entrepreneurial Scholars, approved effective Spring 2005.

Course Description: Members of the class will explore innovation and entrepreneurial strategies through interdisciplinary team collaboration.

Credit Hours: .5 hour Lecture

Prerequisites: None

EC 1598, SoMEER 101, Global Research, approved effective Spring 2005



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Course Description: This course is offered as part of the residential college experience.

Topics covered will include introduction to the importance of research in today's technological society, basic research methods, and participation in campus research teams. The course will include speakers, laboratory tours, hands-on experience, and field trips.

Credit Hours: .5 hour Lecture

Prerequisites: None

EC 1599, Arts & Sciences 101, Women as Global Leaders II, approved effective Spring 2005.

Course Description: The class will continue to focus on the development of skills necessary for strong leadership. Seminars and workshops led by women leaders will continue, focused this semester on project management and planning in preparation for the service learning project.

Credit Hours: .5 hour Lecture

Prerequisites: None

EC 1600, Nuclear Engineering 401, Two-phase Flow in Energy Systems II, approved effective Spring 2005.

Course Description: This is the first graduate level course for those who are interested in the two-phase flow applications in energy systems. This course will acquaint students with knowledge on various two phase flow phenomena encountered in both adiabatic and heated systems, and their mechanistic models. This course also introduces both the conventional and state-of-the-art two-phase flow formulations.

Credit Hours: 3 hour Lecture

Prerequisites: NE 221; NE 223 or Chem 231 or ME 231

EC 1601, IST 301, Managing the Requirements Process, approved effective Spring 2005.

Course Description: Students are shown how to lead the process of determining and specifying a customer's requirements for an information system. Topics include: interacting with customers, principles of requirement analysis, developing specification documents, requirements list, use case analysis, and agile user stories.

Credit Hours: 3 hour Lecture

Prerequisites: IST 141

EC 1602, Comp Eng 201, Linear Systems for Computer Engineers, approved effective Spring 2005.

Course Description: Time- and frequency-domain analysis of continuous- and discrete-time systems. Linearity, Time-invariance, delta functions, convolution, impulse and transfer functions, continuous and discrete-time Fourier series, Laplace and z-Transforms, various Fourier Transforms and inversion, sampling, A/D conversion, basic filter design.



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Credit Hours: 3 hour Lecture

Prerequisites: EE 153 with C or better, Math 204 with C or better, and a passing grade on the EE Advancement Exam II.

EC 1603, Comp Eng 401, E Mgt 401, Sys Eng 401, Network-Centric Systems Reliability and Security, approved effective Spring 2005

Course Description: This course presents reliability and fault tolerance techniques for network-centric systems, including models, metrics, and analysis techniques. This course also concentrates on security, including technical tools and methods for audit and assessment as well as management and policy issues.

Credit Hours: 3 hour Lecture

Prerequisites: EMgt/Sys Eng/Comp Eng 419

EC 1604, Nuclear Engineering 301, Two-phase Flow in Energy Systems I, approved effective Fall 2005.

Course Description: This is an intermediate level course for senior undergraduate or graduate students who are interested in the area of two-phase flow. This course will acquaint students with knowledge on single-phase & two-phase fluid flow and fundamental thermal-hydraulic phenomena related to energy systems.

Credit Hours: 3 hour Lecture

Prerequisites: Ne 221; NE 223 or Chem 231 or ME 231

EC 1605, Env Eng 301, ArchE 301, Indoor Air Pollution, approved effective Spring 2005.

Course Description: Indoor air pollution sources, physics, chemistry and consequences. Students learn how radon, cigarette smoke, VOCs from furnishings, etc. affect indoor air quality and how standards are set to improve indoor health and comfort. Students apply engineering analysis to building air to specify ventilation rates, choose furnishings and minimize occupant exposure to pollutants.

Credit Hours: 3 hour Lecture

Prerequisites: CE 261 or ME 371 or Grad Status

EC 1606, Met Eng 201, Mech Eng 201, Materials Selection in Mechanical Design, approved effective Fall 2005.

Course Description: The course will introduce the basics of materials selection in mechanical design. It will also introduce the benefits of computational materials and process selection. The laboratory part will help students involved in design teams to formally learn commercially available materials selection software.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Met 121; ME 208 or equivalent



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J. Keith Nisbett, Chair
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Academic Council Meeting Resolution #1

Thursday, Nov. 11, 2004

The Academic Council members will henceforth be given access to an all-faculty e-mail list (titled AC-L), separate from the administration's all-faculty list (which has no opt-out possibility) and constructed with an opt-out possibility for UMR faculty who do not wish to receive mailings from the AC members. Members who avail themselves of the list shall limit their messages to items dealing with UMR campus governance (vs. e.g., announcements of events) and shall abide by acceptable usage policies specified by the Rules, Procedures and Agenda committee. Members who violate these regulations may have their AC-L e-mail privileges revoked by a two-thirds vote of the Academic Council members at the Council's next regularly scheduled meeting. Also, for reasons of anti-virus protection, no attachments may be sent by the AC members on the AC-L e-mail list.

*all members
of the AC
Council
Amendments
2:58*

Academic Council

@ University of Missouri Rolla

About Academic Council Volume XXXIV, Number 9
Minutes of the Academic Council Meeting

Committee Members October 21 , 2004

Upcoming Meetings

Meeting Minutes

Bylaws

XXXIV, 9 The meeting was called to order at 1:30 p.m. by President Michael Hilgers. Roll call was taken, and absentees noted were: Charles Chusuei, Pericles Stravopoulos, Trent Watts, and V. A. Samaranayake. Dr. Williams Weeks IV was noted as a substitute for Dr. Kurt Kosbar.

There was a motion and second to approve the minutes of the September 16, 2004 Academic Council meeting. The Academic Council body voted to accept the minutes.



1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - This report was presented by Academic Council President Michael Hilgers.

a. Motion was passed that the Academic Council respectively requested that the Provost attend a meeting with representatives from the Information Technology to discuss several items with regard to the desktop replacement policy with an open forum. Dr. Barbara Hale will be addressing that report later on in the meeting.

b. IFC Retreat – October 6th.

1 Faculty Accomplishment System going live in November.

2 Non-regular faculty was discussed with the committee not liking the phrase non-regular faculty, but the phrase non-tenure track people who work on this campus and other campuses. A subcommittee was formed to put together an initial draft of a document that will help standardize how non-regular faculty members are handled throughout the campus, with Mike

being the representative for this campus.

3 Rule of 85 will cost 1% of the University of Missouri budget to activate this year. Considering that the fact that we are looking at a 2% pay increase that will be giving half of the raise to go into the Rule 85 of retirement to go into place.

4 Campus incentive plan with Peter Weldon visiting this campus and University of Missouri-St. Louis to discuss this matter. University of Missouri-Rolla Personnel Committee was the only one to supply a written report that he requested, and he was extremely thankful for the report.

c. Strategic Planning - Mike Hilgers expressed very strong dissatisfaction with the procedure that was used to distribute the strategic initiative money to President Floyd.

d. University of Missouri-Columbia is going to implement a new grievance handling procedure on its campus, and it is viewed as a three-year pilot study. If it is successful, then we may look into going system-wide.

e. One new agenda item requesting Dr. Larry Gragg to discuss new chancellor's search.

f. When Peter Weldon was here on campus he asked that an ad-hoc group form a conflict of interest committee with Wayne Huebner as their chair to serve on the systems level when they formulate the policy that they are proposing.

B. CHANCELLOR'S REPORT - This report was presented by Chancellor Gary Thomas.

Homecoming was a very successful weekend. Every department participated with approximately 900 who attended the event accompanied with the Minority Engineering Program's 30th

Anniversary Celebrations being well attended. There were also several meetings timed with the homecoming weekend: Board of Trustees, Corporate Development Council, Alumni Association, African American Recruitment Retention Committee. All meetings were well attended. There were three programs initiated by the system. There was a 12 million dollar increase in appropriations over the approximately 400 million that the legislators and governor allocated to the University of Missouri. That money was set aside. Three million was sent to University of Missouri-St. Louis, and nine million was set aside with three incentives.

1 One to one match for endowment for need-based scholarships. Approximately 1/4 million has been raised towards that. We will be getting close to 1/2 million very shortly with people coming to homecoming being quite interested in that option. We should be able to match 3/4 million that was set aside for UMR. Once we match that we may be able to get some of the remaining 1 million that is available for the campus, but there has not been criteria set for who and when we will have access to it.

2 UMR will get two endowed chairs in the sense that the system will match the cash flow on those two

endowments. There are five areas that were selected. Energy, Environmental & Biological Engineering Science, Civil, Architectural Environmental Engineering, Sustainable Materials and Manufacturing, and Lifecycle Software Engineering.
3 Missouri Transportation Institute will be formally approved on November 10th. University of Missouri Board of Curators will meet here on November 18th and 19th. There will be several new Missouri freshmen legislators' tour the campus Dec. 15th. due to term limits.

C. PROVOST'S REPORT - This report was presented Y. T. Shaw.

1 Passed out report and was happy to answer any questions. Addressed a few important things. The first thing is growth in management. We are down this year as compared to last year. Because of the 10% down in master's degree. Jay and I have been articulating the strategy to address this issue. What is important is the retention, and we have a 63% retention rate.

2 Research - new awards through September: \$10.9M, down 9.8% from a year ago, but on track for a \$40M+year. New submissions through September: \$40.2M, up

69% from a year ago. 52 UMRB proposals were submitted by the October 4th deadline. 22 plus-up proposals were received and will be reviewed on October 22nd.

3. REPORTS OF STANDING AND SPECIAL COMMITTEES

a. Budgetary Affairs - Don Myers gave a brief report.

b. Curricula - Report was e-mailed since C. Chusuei could not attend.

c. Information
Technology/Computing
Committee - Barbara Hale gave the report. There was very lengthy discussion regarding the desktop replacement policy. The parts of the motions 1, 2, and 5 were moved forward and approved. On part 3 the parenthetical remark was removed and voted and approved. Parts 4 (re-deployment should be handled within the department where the equipment resides) and 6 (effort on dollar amount that will be spent on desktop replacement) were voted on and did not pass.

d. Personnel - There was no report to be given.

e. Student Affairs - Report was given by Nathan Mundis. At their last meeting on September 22, 2004, Stephanie Fitch was elected Chair, and Nathan Mundis was elected Vice-Chair. The committee considered four student organization constitutions. The Biology Graduate Student Organization and Technical Invigorators Entrepreneurs Society. Both returned the organizations constitutional revisions as did the University of

Missouri-Rolla College Democrats. If the College Democrats had submitted their revisions by this meeting, then it would have been considered. The constitution of the student organizations of Business and Economics and Information Technology was recommended for recognized organization status by the committee. Nathan asked that the Academic Council approve that constitution. Motion was voted on and passed.

f. Tenure - Report was given by Ken Ragsdell. The committee met several times electronically regarding early and late tenure positions. Motion 1: A letter is sent to all tenure-track appointees from the provost, the dean and the chair, making it clear when their date of initial consideration is, and everyone in the pipeline receive such a letter also. They also recommended an approximate date that their dossier should be in place as part of the letter. Motion was voted on and passed. Motion 2: Would have to have consistency and uniformity that the Campus Promotion and Tenure Committee review and make recommendation concerning any application for extension and that review is done in a timely manner. Not at the time that the application is due. Motion was voted on and carried.

g. Chancellor's Search - Presented by Jay Gregg. Search will be closed all the way until the end of the search. Committee will pick four, five, or six finalists and bring them to the campus. The committee is taking a poll to see if they should have an open forum so people can interact, or closed so that only the people on the search committee will be allowed. Argument from

the recruitment firm by assisting us is that their belief is that UMR will get more sitting chancellors from a richer pool if we have it closed to the search committee. The other side of the argument is that if it is open at the end is that all faculties get to interact, ask questions, and assess the person. Please e-mail one of the people on the committee to let them know what you think. There were some discussion concerning that the appointed search committee would make a decision without getting input from all UMR faculties. Chancellor Thomas will be leaving in August 2005, and the committee would have to have someone in place by July 2005. There was a poll taken of the Academic Council and it resulted in having an open forum.

Mike Hilgers adjourned the meeting at 3:30 p.m. since class was starting.

Respectfully submitted,
(electronically submitted, 11/11/04)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.

Home

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[Meeting Minutes](#) | [Bylaws](#)

*Last updated: Thursday, 11-Nov-2004 08:57:03 CST by
acadcoun@umr.edu
Web Site Design by the [UMR Web Group](#)*



Urban League of Metropolitan St. Louis
Equalizing Life Chances for All People

To: Lawrence George
Fax: (573) 341-6239
Date: 10/7/04

From: Norman R. Seay
Pages: 6
Subject: Seay's resume

Comments:

Attached is the information that you requested.

I thank you for thinking of me regarding your national organization when it convenes in St. Louis.

Also, I appreciated your presence during the funeral service of Burris' father. You are thoughtful.

News about the Urban League of Metropolitan St. Louis

RECEIVED ON
OCT 07 2004
AA/EEO

Didn't receive all pages? Please call me at (314) 615-3605. My return fax number is 314-531-4822

Urban League OF Metropolitan St. Louis

College Resource Center
3701 Grandel Square, St. Louis, MO 63108

NORMAN R. SEAY

Born and reared in St. Louis, Missouri and educated within the St. Louis Public Schools, Norman R. Seay became recognized early on as a civil rights and community activist.

Seay's basic skills as both a leader and follower were crafted via his church activities with the True Light Baptist Church where he served as the director of the Baptist Training Union, director of Christian Education, a trustee, and an organizer of the Youth Fellowship of the Antioch District.

While in Vashon High School, Seay was an original member of St. Louis Committee of Racial Equality (CORE). This organization was in the vanguard in the struggle for first class citizenship for "colored people" in metropolitan St. Louis, who could not eat in restaurants, stay in hotels or secure white-collar employment. The direct-action, non-violence philosophy of CORE led to numerous research projects, negotiation conferences and demonstrations. Some of the targets were White Castle, Woolworth's and other Five & Dime stores, Stix, Baer & Fuller, Howard Johnson, Famous - Barr, the banking industry and other businesses and unions. One of the notable challenges was the Jefferson

Bank Demonstration of 1963, which sought white-collar employment for African Americans in the banking industry, and which landed Norman in Jail/"workhouse" for ninety days. Other CORE leaders spent less and/or more days of incarceration.

While in the workhouse, Norman established a school to teach other inmates how to read and write as well as a recreational program. The school continues today under the St. Louis Public Schools. Moreover, today the banking and other components of the banking/finance industry employ African Americans in white-collar positions and a few African Americans serve as board members on two or three banks.

Additionally, Seay has served simultaneously as a chairman of CORE, organizer and chairman of the Criminal Justice Committees of the St. Louis NAACP, CORE, and the Federation of Block Units for more than a decade. This provided a one-voice approach toward eliminating/reducing discrimination and segregation against African American police officers and mistreatment/brutality against blacks and other underrepresented citizens.

Seay was instrumental in the formation of both the St. Louis and the National Black Police Association as well as being present during the formation of the National Organization of Black Law Enforcement Executives (NOBLE) in Virginia.

While living in the Washington, D. C. area, Seay was elected President of the NAACP in Montgomery County, Maryland, and worked with the Staff of U. S. Representative John Conyers, Jr. (D-Michigan) toward the establishment of the national Dr. Martin Luther King, Jr. Holiday observance. Also, while in the nation's capital, Seay was one of the leaders that organized Black In Government (Blacks In Government) to provide a formal structure for African American governmental employees to have input into policies and procedures that impacted federal, state and/or local governmental employees. Norman also chaired the highly successful first three national BIG Training Conferences, in Washington, D C.

Seay has served in various local and regional capacities such as president of the Federation of Block Units of the Urban League of Metropolitan St. Louis; co-chair of the Racial Polarization Task Force, Confluence St. Louis; co-founder, St. Louis Committee Against Apartheid; Justice Task Force committee, East-West Gateway Coordinating Council; Dialogue Group of Civic Progress, Inc. In 1970, Norman formed the Dr. Martin Luther King, Jr. Holiday Committee, which was able to establish January 15 as a city holiday in St. Louis in 1971. The committee later led the effort to rename streets in St. Louis, Wellston and East St. Louis, Illinois in

honor of Dr. King. A bridge that spans the Mississippi River from St. Louis to East St. Louis was also named in honor of Dr. King.

Seay is a Golden Heritage Life Member of the NAACP, life member of Alpha Phi Alpha Fraternity, the St. Louis Urban League and 100 Black Men.

A recipient of numerous forms of recognition, locally and nationally, Norman continues to serve on various community-oriented boards such the Vashon/Jeff Vander Lou Initiative and Equal Housing Opportunity Council (EHOC) to identify a couple.

Civic, civil rights, religious activist, and student of law enforcement

EDUCATION

Graduate of the St. Louis Public School System
B.A. in elementary education
M.A. in administration

Religion

Former church trustee; Director, Christian Education;
Director, Baptist Training Union; Organizer, Baptist
Youth Fellowship, Antioch District

Employment

St. Louis Public School System
U.S. Army - St. Louis Housing Authority
Mept. St. Louis Anti-Poverty Program
Health & Welfare Council of Greater St. Louis
U.S. Department Health & Human Services in Washington, D.C.

Civil Rights

- . Co-Founder of St. Louis Committee of Racial Equality (CORE),
Blacks Within Government, and the National Association of
Blacks Within Government
- . Former President, NAACP, Montgomery County, Maryland;
St. Louis CORE & National Association of Blacks Within
Government
- . Organizer and Chairman of Criminal Justice Committees of
CORE, NAACP, and Federation of Block Units
- . Jailed in struggle for equal employment opportunity in the
banking industry
- . Golden Heritage Life Member, NAACP
- . Life Member, Urban League of Mept. St. Louis

Civic

- . Former President, Federation of Block Units; Urban League of
St. Louis
- . Co-Chair, Racial Polarization Task Force, Confluence St. Louis
- . Co-Founder, St. Louis Committee Against Apartheid

REPORT TO THE ACADEMIC COUNCIL

Y. T. SHAH
PROVOST AND EXECUTIVE VICE CHANCELLOR

OCTOBER 21, 2004

ENROLLMENT MANAGEMENT

Enrollment by Department
On-schedule, all jurisdictions, degree seeking students only

BACHELORS	FS1998	FS1999	FS2000	FS2001	FS2002	Average	% change	
						5 yr. (98-02)	5 yr. (98-02)	3 yr. (00-02)
Philosophy	5	5	3	4	4	4.2	-20%	33%
Economics	26	21	26	30	28	26.2	8%	8%
Petroleum Engineering	45	37	28	28	29	33.0	-36%	4%
Applied Mathematics	45	39	27	34	44	37.8	-2%	63%
English	39	39	41	35	43	39.4	10%	5%
Physics	55	53	50	35	35	45.6	-36%	-30%
Chemistry	49	46	46	39	49	45.8	0%	7%
History	53	41	39	52	66	50.2	25%	69%
Nuclear Engineering	55	55	46	51	62	53.8	13%	35%
Psychology	64	60	53	61	51	57.8	-20%	-4%
Ceramic Engineering	65	67	56	57	51	59.2	-22%	-9%
Geology and Geophysics	87	71	76	62	59	71.0	-32%	-22%
Biological Sciences	81	71	68	79	96	79.0	19%	41%
Mining Engineering	94	85	91	73	70	82.6	-26%	-23%
Geological Engineering	139	117	81	70	43	90.0	-69%	-47%
Metallurgical Engineering	116	107	102	93	82	100.0	-29%	-20%
Freshman Engineering	227	149	97	106	158	147.4	-30%	63%
Aerospace Engineering	147	159	176	172	210	172.8	43%	19%
Computer Engineering	13	129	211	265	268	177.2	1962%	27%
Engineering Management	174	165	180	209	220	189.6	26%	22%
Chemical Engineering	351	335	319	271	231	301.4	-34%	-28%
Computer Science	338	326	309	323	304	320.0	-10%	-2%
Civil Engineering	375	373	355	378	373	370.8	-1%	5%
Electrical Engineering	540	472	404	400	385	440.2	-29%	-5%
Mechanical Engineering	551	555	518	521	525	534.0	-5%	1%

MASTERS	FS1998	FS1999	FS2000	FS2001	FS2002	Average	% change	
						5 yr. (98-02)	5 yr. (98-02)	3 yr. (00-02)
Petroleum Engineering	2	2	3	5	7	3.8	250%	133%
Engineering Mechanics	7	7	5	4	6	5.8	-14%	20%
Nuclear Engineering	4	6	5	4	10	5.8	150%	100%
Physics	2	6	6	8	8	6.0	300%	33%
Mining Engineering	3	6	7	9	16	8.2	433%	129%
Metallurgical Engineering	8	8	10	10	11	9.4	38%	10%
Aerospace Engineering	6	8	9	10	16	9.8	167%	78%
Chemistry	17	9	8	10	7	10.2	-59%	-13%
Geological Engineering	10	9	11	14	16	12.0	60%	45%
Applied Mathematics	9	10	9	18	16	12.4	78%	78%
Ceramic Engineering	15	15	13	15	13	14.2	-13%	0%
Environmental Engineering	11	13	21	19	11	15.0	0%	-48%
Manufacturing Engineering	0	0	4	22	39	21.7		875%
Geology and Geophysics	18	23	28	24	22	22.6	22%	-15%
Chemical Engineering	21	27	28	28	23	25.0	10%	-12%
Computer Engineering	2	9	27	46	57	28.2	2750%	111%
Civil Engineering	43	38	48	72	92	58.2	114%	92%
Computer Science	68	67	51	71	87	68.8	28%	71%
Mechanical Engineering	62	73	88	88	83	78.8	34%	-6%
Electrical Engineering	82	76	96	96	147	99.4	79%	53%
Systems Engineering	0	0	0	105	117	111.0		
Engineering Management	157	139	164	125	171	151.2	9%	4%

DOCTORAL	FS1998	FS1999	FS2000	FS2001	FS2002	Average	% change	
						5 yr. (98-02)	5 yr. (98-02)	3 yr. (00-02)
Petroleum Engineering	3	2	1	0	1	1.4	-67%	0%
Computer Engineering	0	2	3	3	7	3.0		133%
Engineering Mechanics	4	3	3	4	3	3.4	-25%	0%
Geological Engineering	3	3	3	5	5	3.8	67%	67%
Nuclear Engineering	7	6	4	4	1	4.4	-86%	-75%
Mining Engineering	5	8	4	4	4	5.0	-20%	0%
Aerospace Engineering	7	5	7	6	2	5.4	-71%	-71%
Computer Science	10	7	6	5	12	8.0	20%	100%
Chemical Engineering	12	9	8	9	11	9.8	-8%	38%
Mathematics	11	12	13	12	9	11.4	-18%	-31%
Geology and Geophysics	10	11	12	12	14	11.8	40%	17%
Metallurgical Engineering	13	10	12	15	15	13.0	15%	25%
Ceramic Engineering	15	13	14	14	20	15.2	33%	43%
Physics	29	20	14	24	22	21.8	-24%	57%
Engineering Management	36	26	29	29	29	29.8	-19%	0%
Civil Engineering	21	26	32	38	46	32.6	119%	44%
Electrical Engineering	28	26	37	39	44	34.8	57%	19%
Mechanical Engineering	36	37	33	34	38	35.6	6%	15%
Chemistry	51	50	46	48	55	50.0	6%	20%

Civil Engineering includes Architectural Engineering - FS2002

Freshman Engineering students counted in department of emphasis selected (not in freshman engineering).

UMR - Enrollment Management Services
WEEKLY ENROLLMENT REPORT

			Fall 2000 (ADMs) 9/21/2000	Fall 2001 (PS Conv) 9/21/2001	Fall 2002 (PS) 9/21/2002	Fall 2003 (PS) 9/21/2003	Fall 2004 (PS) 9/21/2004
FRESHMEN	Prospects	Beg. Fr. Prospects	139181	42816	65156	42357	24110
		HS Jr. Prospects	10454	10704	10296	24969	22985
	Inquiries	Beg. Fr. Inquiries	20659	9071	13559	11242	10153
		HS Jr. Inquiries	4240	1223	8600	7326	6363
	Applications		1868	1838	1962	1889	1892
		Pending	133	97	62	54	42
		Withdrawn Apps	3	36	31	14	6
	Admitted		1658	1643	1752	1744	1746
		Cancelled Admits	814	424	491	254	593
		Denied	74	62	117	77	98
Enrolled		0	0	815	884	876	
TRANSFERS	Inquiries		912	713	715	1016	1078
	Applications		398	506	489	477	452
		Pending	41	100	83	69	47
		Withdrawn Apps	16	15	6	5	13
	Admitted		322	371	382	384	374
		Cancelled Admits	55	20	13	20	15
		Denied	19	20	18	19	18
Enrolled		0	0	261	280	288	
GRADUATES	Inquiries		7033	4617	3521	2503	1401
	Applications		1907	2485	3406	2632	1455
		Pending	697	712	1140	504	175
		Withdrawn Apps	6	19	40	30	15
	Admitted		817	1211	1477	1365	852
		Cancelled Admits	21	0	0	0	0
		Denied	387	543	749	733	413
Enrolled		0	0	469	356	402	
ORIENTATION	Freshmen	Total Reservations	690	725	836	910	873
	Transfer	Total Reservations	N/A	N/A	N/A	134	150
HOUSING CONTRACTS	Upperclassmen		523	534	514	603	638
	Beginning Freshmen		523	481	626	779	697
	Transfers		N/A	N/A	N/A	N/A	N/A
	TOTAL		1,046	1,015	1,140	1,382	1,335
4TH WEEK CENSUS	Beginning Freshmen		696	715	815	897	876
	Transfers		195	231	261	281	288
	Graduates		348	395	423	348	402
	TOTAL		1,239	1,341	1,499	1,526	1,551

Unofficial Internal Planning Data - not intended for public release.

ADMs - data from ADMs system

PS Conv - PeopleSoft conversion data

PS - data from PeopleSoft system

**UNIVERSITY OF MISSOURI-ROLLA
ENROLLMENT GRID**

SEPTEMBER 20, 2004 - FALL

END OF 4TH WEEK

	FR M	FR F	SO M	SO F	JR M	JR F	SR M	SR F	TOTAL UG	MAST M	MAST F	DOCT M	DOCT F	TOTAL GRAD	TOTAL MALE	TOTAL FEMALE	TOTAL YEAR AGO	
ROLLA CAMPUS																		
A&S UND	9	6	10	3	3	4	9	3	47	0	0	0	0	0	31	16	47	87
BIO SC	8	16	8	32	6	18	6	20	112	8	9	0	0	17	34	95	129	132
CHEM	6	4	3	4	3	7	8	11	46	5	2	38	18	63	63	46	109	112
CP SC	68	4	52	4	58	7	85	5	283	52	12	11	3	78	326	35	361	394
ENGL	3	5	1	7	5	5	6	11	43	0	0	0	0	0	15	28	43	42
HIST	8	2	9	10	6	6	16	9	66	0	0	0	0	0	39	27	66	70
MATH	6	4	4	4	6	10	8	13	55	8	6	15	4	33	47	41	88	85
PHIL	0	0	1	0	0	0	1	1	3	0	0	0	0	0	2	1	3	2
PHYS	6	2	4	0	15	2	5	1	35	8	1	21	9	39	59	15	74	70
PSYCH	3	8	5	15	4	8	6	22	71	0	0	0	0	0	18	53	71	66
A&S	117	51	95	79	106	67	150	96	781	81	30	85	34	230	634	357	991	1060
AERO E	0	0	31	6	27	9	45	9	127	14	1	1	2	18	118	27	145	139
ARCH E	2	1	11	7	11	4	29	16	81	0	0	0	0	0	53	28	81	58
CHEM E	1	0	12	4	22	15	49	18	121	13	1	14	5	33	111	43	154	168
CIV E	2	2	23	8	65	11	107	17	235	15	10	25	11	61	237	59	296	319
COMP E	3	0	31	2	44	2	72	4	158	15	2	8	1	26	173	11	184	207
ELEC E	7	1	63	6	65	5	154	15	316	53	7	44	5	109	388	39	425	452
E MGT	1	1	12	6	23	10	64	23	140	33	12	12	5	62	145	57	202	252
E MECH	0	0	0	0	0	0	0	0	0	1	0	2	1	4	3	1	4	10
ENGR UND	0	0	3	0	10	0	4	1	18	0	0	0	0	0	17	1	18	17
ENVR E	1	0	1	1	2	3	0	0	8	10	6	0	0	16	14	10	24	16
MANF E	0	0	0	0	0	0	0	0	0	18	4	0	0	22	18	4	22	30
MECH E	5	0	59	5	129	13	193	27	431	57	7	39	7	110	482	59	541	518
SYS E	0	0	0	0	0	0	0	0	0	4	1	0	0	5	4	1	5	1
FR ENGR	568	118	211	38	17	8	5	1	966	0	0	0	0	0	801	165	966	917
ENGR	590	123	457	83	415	80	722	131	2601	233	51	145	37	466	2562	505	3067	3104
BUS&MS	16	8	14	11	18	9	25	17	118	0	0	0	0	0	73	45	118	96
ECON	0	1	3	0	1	0	4	3	12	0	0	0	0	0	8	4	12	19
IS&T	12	2	10	2	17	3	23	4	73	19	14	0	0	33	81	25	106	82
MGT SYS	0	0	0	0	0	0	3	1	4	0	0	0	0	0	3	1	4	14
M&S UND	1	0	4	0	4	3	4	1	17	0	0	0	0	0	13	4	17	17
M&S	29	11	31	13	40	15	59	26	224	19	14	0	0	33	178	79	257	228
CER E	2	0	3	8	9	4	4	5	35	7	6	11	5	29	36	28	64	68
GEOL E	2	0	4	1	7	4	12	3	33	5	3	6	2	16	36	13	49	48
GEO & GP	6	6	8	6	4	4	19	9	62	4	3	12	3	22	53	31	84	73
MET E	2	0	11	1	11	4	18	3	48	9	3	11	4	27	60	15	75	90
M&M UND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
MIN E	3	2	14	2	20	0	18	3	60	2	0	7	2	11	62	9	71	55
NUCL E	0	0	25	4	14	7	16	4	70	3	1	2	1	7	60	17	77	54
PETR E	3	0	3	0	2	0	6	2	16	4	0	3	0	7	21	2	23	28
FR ENGR	57	15	25	6	2	0	3	0	108	0	0	0	0	0	87	21	108	107
MEER	75	23	93	28	69	23	92	29	432	34	16	52	17	119	415	136	551	524
NON DG	16	17	1	2	2	0	7	4	49	11	10	0	0	21	37	33	70	67
CAMPUS TOTAL	827	225	677	205	632	185	1030	286	4067	378	121	282	88	869	3826	1110	4936	4983
EXTENDED LEARNING																		
AERO E	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	0	2	2
CIV E	0	0	0	0	0	0	0	0	0	32	8	0	0	40	32	8	40	44
COMP E	0	0	0	0	0	0	0	0	0	2	2	0	0	4	2	2	4	2
CP SC	0	0	0	0	0	0	0	0	0	7	0	0	0	7	7	0	7	5
ELEC E	0	0	0	0	0	0	0	0	0	8	0	0	0	8	8	0	8	9
E MGT	0	0	0	0	0	0	0	0	0	63	21	6	1	91	69	22	91	106
E MECH	0	0	0	0	0	0	0	0	0	3	0	0	0	3	3	0	3	1
ENVR E	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	4
GEOL E	0	0	0	0	0	0	0	0	0	10	1	0	0	11	10	1	11	7
GEO & GP	0	0	0	0	0	0	0	0	0	19	2	0	0	21	19	2	21	10
IS&T	0	0	0	0	0	0	0	0	0	5	0	0	0	5	5	0	5	5
MANF E	0	0	0	0	0	0	0	0	0	8	0	0	0	8	8	0	8	3
MECH E	0	0	0	0	0	0	0	0	0	8	1	0	0	9	8	1	9	3
MIN E	0	0	0	0	0	0	0	0	0	14	1	0	0	15	14	1	15	16
SYS E	0	0	0	0	0	0	0	0	0	122	22	0	0	144	122	22	144	108
NON DG	23	24	1	1	0	0	4	0	53	35	14	0	0	49	63	39	102	151
EXTENDED TOTAL	23	24	1	1	0	0	4	0	53	338	73	6	1	418	372	99	471	476
UMR TOTAL	850	249	678	206	632	185	1034	286	4120	716	194	288	89	1287	4198	1209	5407	5459

NOTE: 97 CO-OP students are included in the campus total
 34 CDIS students are included in the distance total
 100 EEC students are included in distance total
 676 First-time freshmen are included in the campus total
 288 New transfer students are included in the campus total
 402 New graduate students are included in the UMR total

81 included one year ago
 46 included one year ago
 82 included one year ago
 897 included one year ago
 281 included one year ago
 348 included one year ago

2005 New Student Programs PRO Dates

Spring Semester 2005 Orientation

Transfer and Freshman Orientation

Thursday, January 6, 2005

Preview, Registration, and Orientation (PRO) dates

Saturday, February 19

Friday, March 11

Friday, April 15

Saturday, April 23

Saturday, April 30

Friday, June 3

Wednesday, June 8

Friday, June 10

Sunday, August 14

Fall Transfer Orientation

Saturday, August 20

Opening Week Orientation

Saturday, August 13- Saturday, August 20

**Recruitment Committee Meeting
October 14, 2004
Admissions Report**

Upcoming Activities:

October 18, 22, and 29; Nov 5: Miner Days

October 26, 2004: Forest Hills Reception

November 5, 2004: Transfer Day *Where: TBA*

November 13, 2004: Open House
Diversity Showcase *2000-3000 invite sent*

Friday, November 19, 2004: Business and Information Technology Day
Counselor Visit Day

Applications and Admit Comparisons

Comparison: FS04 and FS05 Freshman Applications for July, August and September, 2004

	Received for FS04 (October 8, 2003)	Received for FS05 (October 8, 2004)
Apps	388	437
Admits	328	371

Total Freshman applications received July 1, 2003 through October 31, 2003: 585

Total Freshman applications received July 1 through October: Comparison of 03, 04 and 05 Freshman classes:

Applications	Enrolled		Applications	Enrolled	Apps
FS2003(02-03)			FS2004		FS2005
91	43	Jul-03	96		93
54	30	Aug-03	51		58
115	62	Sep-03	120		148
					(as of October 12, 2004)
393	216	Oct-03	318		93**
412	197	Nov-03	492		

****The Chancellor's Scholarship applications must be postmarked by November 1st, 2004. We routinely receive 100-140 Chancellor's applications, most at the end of the month because we ask the students to submit their application for admission, Chancellor's application and essay to their counselor to send to us with the transcript.**

Recruiting Event Attendance:

October 9th, Open House: 87 Students
227 total student and guests

October 9th, "Spotlight": ^{CAS} 55-60 Students and Guests

October 18th, Miner for a Day: 15 Admitted Students registered

October 18th, Miner Day: 26 families

Direct Mail and Email Projects:

Rolla Night Invitation
Open House Invitation
Spotlight Invitation
Miner for a Day
Midwest Student Exchange Scholarship Mailing
Counselor Day Invitation
Viewbooks to all new FS05 Inquiries
Chancellor's Scholarship Reminder postcard (students)
Chancellor's Scholarship Reminder postcard (parents)
Forest Hills invitation
Business and Information Technology Day
Student Life Mailing
Diversity Showcase

RESEARCH

Research

- 1) New awards through September: \$10.9M, down 9.8% from a year ago, but on track for a \$40M+ year
- 2) New submissions through September: \$40.2M, up 69% from a year ago
- 3) 52 UMRB proposals were submitted by the Oct. 4th deadline
- 4) 22 Plus-up proposals were received and will be reviewed on Friday October 22nd
- 5) Sources indicate the Shaw-Missouri LLC has been selected to manage the Idaho National Lab; the announcement is expected on November 3rd (moved up two weeks). Keep fingers crossed.

UNDERGRADUATE AND GRADUATE STUDIES

UGS Items for Academic Council

Dr. Eric Mazur Comes to UMR to Present Lectures and Workshop

“What Campus Leadership Can Do to Improve Student Learning”

And

“Active Learning and Interactive Classrooms”

Time/Location: Oct 22, 2004 213 UCE

Presenter: Eric Mazur

We are pleased to present Eric Mazur as our special guest speaker at CERTI's Leadership Luncheon Series for October. We hope you can join your colleagues in this informative dialog as Eric expounds on the significance of leadership's role in the learning process.

Dr. **Mazur** holds a triple appointment as Harvard College Professor, Gordon McKay Professor of Applied Physics, and Professor of Physics at Harvard University.

Co-Sponsored by CERTI and NFTS Program

Mel George to Visit the Rolla Campus to Discuss “How People Learn”

Time/Location: November 9th

Presenter: Mel George (Former UM System President)

A lot has been discovered in recent years about how people learn - from neuroscience, psychology, and other fields. Those of us who teach need to be aware of some of the more important general findings, as well as of research results that relate to particular disciplinary fields. We will discuss a few of the major results and how they might apply to our work as teachers seeking to help our students learn. Some resource books and papers will be suggested for those who wish to pursue further this important, fascinating, and intellectually challenging topic.

Sponsored by CERTI

UMR GLOBAL

Academic Council Report

October 21, 2004

1. **Fort Leonard Wood Middle East Training:** UMR successfully responded to an RFP issued by Fort Leonard Wood to provide individuals in the Advance Officer's Training course with a series of non-credit short courses providing background material on Middle East customs and practices. The intent is to better equip our military for interaction with the people and the cultural differences they will encounter if they are deployed to that part of the world. This effort is being coordinated by Dr. Greg Gelles of the School of Management and Information Systems.
2. **New SEVIS Regulation:** On October 14, 2004, a new regulation went into effect that requires individual students to not only be enrolled but to also have a bona fide job offer before they will be issued a social security number. Without a social security number, it is very difficult to open a local bank account or obtain telephone service. The real impact of this regulation will be felt at the start of the Winter 2005 semester as new international students arrive on campus. Departments will again be asked to provide advising services for arriving students. In addition, Departments should consider the impact of the new employment regulation on international students when offering Graduate Assistantships or student employment opportunities.
3. **St. Louis Community College and UMR Partnership:** The Presidents of the St. Louis Community Colleges (SLCC) have indicated they would like to further explore the possibility of UMR offering the last two years of selected BS level engineering degrees on site in St. Louis. This would entail the use of SLCC classroom facilities and labs. Details of the arrangement are still to be worked out along with the process for obtaining local and UM System level approval.

INFORMATION TECHNOLOGY

Positive Things Happening in Your Area

Voice Over IP Network

- The Mechanical Engineering Annex was VoIP enabled on October 13, 2004, Computer Science was VoIP enabled on August 6, 2004 with the Civil Engineering department slated to be next.
- Included in the list of buildings to be VoIP supported are the new Havener Center and the Residential College.

Network Upgrades

- Construction of a high-speed, campus-wide fiber loop has begun. Once complete, the majority of the buildings on campus will benefit from dramatically increased bandwidth along with physical link redundancy. This means that service will remain uninterrupted in the event of a cable cut or other localized service interruption.
- Network capacity has been increased to the Engineering Management building.

Email Stability

- Installation has been completed of the SAN based Exchange service to a 3+1 Active/Passive cluster to improve reliability, uptime and performance and reduce yearly operating costs.
- To date, approximately 50% of the campus mailboxes are on the new servers. Migration should be complete by November 1.

DCE Course Centralization Project

- Enable automatic population of distance course information from PeopleSoft into new DCE web site housed in Documentum. Target date for completion of phase 1: November 1.

ILLIAD Project

- Finalizing implementation of software to help streamline processes used by UMR Library for inter-library loan requests.

Application Development Process/Alignment

- October 14: Realignment of resources and implementation of standard operating processes, with professional consultants, positions the application team to focus efforts on the campus' critical applications while continuing to make predictable and cost effective progress on new strategic application initiatives.

Blackboard

- Completed Blackboard Upgrade to version 6.1.

FsaAtlas

- Completed migration of FsaAtlas to new version of software.
- Completed Campus Data Load

ID Card Project

- Successfully closed this project.

IPCC Call Manager

- Successfully implemented Call Manager for IT Solutions Center

HelpRequest Customer Satisfaction Surveys

- Successfully implemented customer feedback tools which invites customer's feedback as to their satisfaction with provided solutions.

McAfee Antivirus 7.1

- Reduction from 300 to 40 in the number of systems without McAfee Antivirus 7.1 properly installed through use of remote desktop.

New Phone system incoming calls

- Almost 5400 phone calls into the Call Center since August 18, 2004.

Survey stats

- Production Date: September 17, 2004.
Responses: Received 3% response from customers, 32 comments met expectations, 35 exceeded expectations, 1 DID NOT MEET expectations
- Group Breakdown:
 - Applications - 3 surveys
 - Networking/Server/Telecom/Security - 10 surveys
 - Tier II - 32 surveys
 - Tier I - 23 surveys



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Memo To: Academic Council
 From: UMR Campus Curriculum Committee Meeting
 RE: October 7, 2004 Meeting

The UMR Campus Curricula Committee recommends to the Academic Council that the name changes on the following NC forms be approved. The following NC forms have also been routed to the Budgetary Affairs Committee for additional recommendation to the Academic Council.

Approved NC forms:

NC 10, School of Engineering, Engineering Management. A proposal to change the Engineering Management department to the Department of Engineering Management and Systems Engineering. Approved effective January 1, 2005.

Todd Hubing motion to move passed

The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.

Approved DC forms:

DC 0133, School of Management and Information Systems, Enterprise Resource Planning Emphasis, approved effective WS2005. A proposal to create a new emphasis area under the B.S. in IST called Enterprise Resource Planning.

None to approve passed

DC 0134, School of Management and Information Systems, Enterprise Resource Planning Emphasis, approved effective WS2005. A proposal to create a new emphasis area under the B.S. in Business and Management Systems called Enterprise Resource Planning.

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 5862, Geology 210, Seminar, change approved effective WS2005.
 Course Number – Proposed: 310

move to approve

CC 5864, IST 336, Internet Computing, change approved effective WS2005.
 Catalog Description – Present: A survey of computer networks and the Internet. Develops understanding of the concepts of Local Area Networks (LANs), Wide Area Networks (WANs), packet switching, and Internet protocols, along with the underlying technologies they use.

Proposed: Survey of computer networks, including packet switching and Internet protocols, along with their underlying technologies.
 Introduction to software tools for E-commerce support, Web site management



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principles, web database implications, wireless Internet issues, and Internet security issues.

CC 5866, IST 346, Business 326, Enterprise Resource Planning Systems Design and Implementation, new course approved effective WS2005.

Catalog Description: This course provides a technical overview of Enterprise Resource Planning Systems and their impact on organizations. SAP is introduced to illustrate the concepts, fundamentals, framework, general information technology context, the technological infrastructure, and integration of business enterprise-wide applications.

Credit Hours: 3 hour Lecture

Prerequisites: IST 141

CC 5867, IST 347, Business 366, Supply Chain Management Systems, new course approved effective WS2005.

Catalog Description: The course studies the need for supply chain integration and the challenges of managing complex interfaces. This course focuses on the systems approach to the planning, analysis, design, development, and evaluation of supply chain. The course discusses activities that lead to integration of information and material flows across multiple organizations.

Credit Hours: 3 hour Lecture

Prerequisites: IST 346/BUS 326

CC 5868, IST 348, BUS 386, Strategic Enterprise Management Systems, new course approved effective WS2005.

Catalog Description: This course will study the use of information technology for the formulation and implementation of strategy in the organization. SAP's Strategic Enterprise Management (SEM) will be used to study the development of business plans, definition of key performance indicators, and evaluation of business.

Credit Hours: 3 hour Lecture

Prerequisites: IST 346/BUS 326

CC 5915, Geological Engineering 310, Seminar, change approved effective WS2005.
Co-listing: Geology 310 and Petroleum Engineering 310

For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.

Approved EC forms:

EC 1582, Materials Science & Engineering 301, Biological Sciences 301, Chemical Engineering 301, Tissue Engineering I, approved effective WS2005.

Does not require approval



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Course Description: This course will introduce senior undergraduate students to the principles and clinical applications of tissue engineering, involving the use of biomaterial scaffolds, living cells, and signaling factors to develop implantable parts for the restoration, maintenance, or replacement of biological tissues and organs.

Credit Hours: 3 hour Lecture
Prerequisites: Senior standing

EC 1583, Materials Science & Engineering 401, Biological Sciences 401, Chemical Engineering 401, Tissue Engineering II, approved effective WS2005.

Course Description: This course will introduce graduate students to the principles and clinical applications of tissue engineering, involving the use of biomaterial scaffolds, living cells, and signaling factors to develop implantable parts for the restoration, maintenance, or replacement of biological tissues and organs. A term paper and oral presentation on a tissue engineering topic are expected.

Credit Hours: 3 hour Lecture
Prerequisites: Graduate standing

EC 1588, IST 401, Business 401, Enterprise Resource Planning: Systems Config and Integration, approved effective WS2005.

Course Description: Implementation and design practices for business processes in Enterprise Resource Planning (ERP) systems. The course will examine and apply techniques used in SAP R/3 for system configuration and integration, with a focus on logistics and finance.

Credit Hours: 3 hour Lecture
Prerequisites: IST 346 or BUS 326

EC 1589, Engineering Management 301, Operations Management Science, approved effective WS2005.

Course Description: Design and analysis of operations using concepts of management science. Systems are modeled and analyzed using quantitative and qualitative techniques and solved using modern information technology. Specific approaches include linear/non-linear, dynamic, and goal programming, simulation, and probabilistic/statistical analysis.

Credit Hours: 3 hour Lecture
Prerequisites: EMGT 282 with at least a C or graduate standing

EC 1590, Engineering Management 401, Advanced Topics in Simulation Modeling, approved effective WS2005.

Course Description: Design and analysis of distributed systems using discrete-event simulations and synchronization of distributed models. Design and implementation of finite state automata and simulation models as control execution systems. Functioning of real-time, agent-based, and multipass simulations.



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Credit Hours: 3 hour Lecture
Prerequisites: Eng Mgt 356 or Graduate Standing

EC 1591, Engineering Management 401, Tolerance Design, approved effective WS2005.
Course Description: This course is an examination of the theory and practice of allowance allocation for high quality and low cost manufacture of mass-produced consumer products, including technology intensive products, such as automobiles, trucks, military and commercial airplanes, computers and consumer electronics.

Credit Hours: 3 hour Lecture
Prerequisites: Eng Mgt 375 or equivalent

EC 1592, Electrical Engineering 301, Cryptography, approved effective WS2005.
Course Description: Classical cryptosystems, Shannon secrecy, RSA and other public-key cryptosystems, hash functions, signatures, and an introduction to elliptic curve and hyperelliptic curve cryptography.

Credit Hours: 3 hour Lecture
Prerequisites: El Eng 265

EC 1593, Computer Engineering 401, Advanced VLSI Design, approved effective WS2005.
Course Description: Advanced topics in chip-level VLSI design, including issues related to high-performance, low-power, analog and mixed-signal circuits, reliability, noise and coupling mechanisms, design automation, and recent advances and trends in the field.

Credit Hours: 3 hour Lecture
Prerequisites: Cp Eng 311; Cp Eng 318 and EE 253 are recommended

EC 1594, Computer Engineering 401, VLSI Testing and Design for Test, approved effective WS2005.
Course Description: The course covers the problems of VLSI systems, especially the deep submicron (DSM) technology, has become one of the most critical obstacles designing microprocessors and ASIC's. A major objective is to develop and implement CAD tools that give solutions to VLSI testing in DSM.

Credit Hours: 3 hour Lecture
Prerequisites: Comp Eng 311

J. Keith Nisbett, Chair
UMR Campus Curricula Committee



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**Academic Council Report
Student Affairs Committee
October 21, 2004**

The academic year's first meeting of the Student Affairs Committee was held on Wednesday, September 22, 2004.

Committee Members: Badrul Chowdhury, Andrew Draker, Lauren Etheridge, Stephanie Fitch, Stephen Hoffmann, Lauren Huchingson, Nathan Mundis, Mark Potrafka, Julia Rosemann, Jeff Schramm.

Stephanie Fitch was elected Chair, and Nathan Mundis was elected Vice Chair, both by acclamation. (Nathan is representing the Committee at this meeting as Stephanie has a class conflict).

Four Student Organization constitutions were discussed. The constitutions of the Biology Graduate Student Organization and the Technical Innovators and Entrepreneurs Society were both returned to the organizations for revisions.

The Constitution of the University of Missouri - Rolla College Democrats is recommended for Recognized Student Organization status by the Committee pending the minor constitution change that a statement is added describing the duties of the faculty advisor. Upon receipt of this revision, approval by the Committee will be automatic. The text of the constitution of this organization pertaining to name and purpose are included on the pages following this report.

The Constitution of the Student Organization of Business, Economics, and Information Technology (SOBEIT) is recommended for Recognized Student Organization status by the Committee. The text of the constitution of this organization pertaining to name and purpose are included on the pages following this report. This organization was previously awarded RSO status under a different name (Student Association for Management Systems).

MOTION: Be it moved that the two aforementioned student organizations, the University of Missouri – Rolla Democrats and the Student Organization for Business, Economics and Information Technology, be awarded recognized student organization status as per the recommendation of the Student Affairs Committee.

**Academic Council Report
Student Affairs Committee
October 21, 2004**

The Constitution of the University of Missouri-Rolla College Democrats

Preamble

In order to promote a better America, with equality, opportunity, and freedom within a just and strong society, we dedicate ourselves to organizing the participation of Democratic college students at the University of Missouri-Rolla. In this mission, we call for full participation of all UMR students, regardless of gender, race, ethnicity, national origin, religion, physical handicap, veteran status, socioeconomic status, or sexual orientation.

Understanding the importance of participation in the Democratic Party to the preservation of our values and principles, we, Democratic college students, do hereby associate ourselves and adopt this Constitution as the University of Missouri-Rolla College Democrats.

Article 1: Name and Purpose

A: Name: The name of this organization shall be the UMR College Democrats, hereafter referred to in this document as the "College Democrats".

B: Purpose: The College Democrats pledges itself to support the philosophy and candidates of the Democratic Party. Furthermore, the College Democrats declares its intention to support all efforts to increase the participation of college students in Democratic affairs. To these ends, the College Democrats shall educate and train its members so that they may be better able to:

1. Educate students about the philosophy of the Democratic Party;
2. Assist in the election of local, state, and national Democratic candidates.
3. Affect political change on the local, state, and national level.

**Academic Council Report
Student Affairs Committee
October 21, 2004**

S.O.B.E.I.T. Constitution

February 11, 2004

Article I

Section I:

The name of this organization shall be Student Organization of Business Economics and Information Technology (S.O.B.E.I.T.) of the University of Missouri at Rolla. The hereafter mention of membership shall imply all regular members of the organization.

Article II

Purpose

Section I: The purposes of the organization shall be as follows:

1. To help the UMR community in ways that the membership and associate members deem appropriate.
2. To promote the discipline and advancement of technology and software related to Business and Information Technology.
3. To hold regular meetings for general business and formal or informal discussions that are of particular interest to the membership.
4. To host guest speakers on topics related to professional Career options.
5. To research future career opportunities and career options relevant to the members of the organization and share this information in the general meetings.
6. To interact with the Deans Advisory Council and other members of Faculty on topics of concern brought up in the general meetings.
7. Provide an environment to have special interest groups that further research fields of interest to them. (I.E. web design, networking technologies)

Rolla Distribution, Inc.

Invoice

P.O. Box 2107
Rolla, MO 65402
(573) 647-6753

Date	Invoice #
9/13/2004	3728

Bill To
Lawrence & Catherine George 39 Johnson Rolla, MO 65401

P.O. No.	Terms	Project
	Net 15	

Quantity	Description	Rate	Amount
3	St. Louis Post-Dispatch Monday - Sunday (7 Day) Qtrly Fee	18.47	55.41
1	Vacation Credit 14 Dailys & 3 Sunday 7/24-8/9 Restart 8/10/04 + 3 Dailys & 1 Sunday 9/9 - 9/13 *Please note vacation credits where papers are not delivered upon returning are credited at a daily rate of .34cents and a Sunday rate of \$1.15. If you should have any questions please feel free to contact us. Thank you for your business. Missouri Sales Tax	-10.38	-10.38
		7.60%	3.08
	<i>See enclosed letter (stop delivery on Sept. 21, resume delivery on Sept. 26, 2004)</i>	<i>6 d @ \$0.34</i>	<i>- 2.08</i>

This is a solicitation are not obligated to pay unless you accept this offer.

Total

\$48.11

~~-2.08~~

check # 7724

\$ 46.03

University of Missouri-Rolla

*106 Harris Hall
Rolla, MO 65409-1540
(573) 341-6314
Fax: (573) 341-6839*

FAX TRANSMISSION COVER SHEET

Date: September 29, 2004

To: Phillip J. Hoskins, General Counsel

Fax: (573) 882-0050

Re: Note to Phil & Proposed Letter to Elizabeth Wann

Sender: Lawrence C. George

YOU SHOULD RECEIVE A TOTAL OF 5 PAGE(S) (cover sheet included in total). IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (573) 341-6314.

I modified the initial letter. Thanks for your help with this request.

Sept. 29, 2004

Phil,

I received the hand written letter that is part of this Fax from Elizabeth E. Wann which was delivered to the AA/EEO Office on Sept. 24, 2004 (my new assistant failed to inform me of its arrival). Mrs. Wann's letter requests that I provide her with a written statement regarding a statement she attributes to me about the issues we discussed as "not a grievable act".

The results of my investigation into her complaint (allegations) of a hostile work environment did not reveal that her work environment was hostile. According to my notes, Mrs. Wann visited with me in the Affirmative Action Office on June 28, 2004. At that time she indicated that she dealing with hostile environment issues. After speaking with her and with several people (Jesse Singleton, Terrill Story, Linda Lloyd and Sharon Miller) employees in Mrs. Wann's work area, subsequent to our June 28th meeting. I concluded, based on the information provided by these individuals, that there was no evidence to support Mrs. Wann's allegations of a hostile work environment. I asked her to meet with me in the HRS Director's Office on July 12, 2004, so I could share my findings with her. When we met, I informed her that I didn't handle grievances. I also informed her that based on what she had said and the results of my investigation into her allegations, I was not able to confirm that her work environment was hostile.

It appeared to me and the people I spoke with that the issues she brought to my attention were mostly personality issues between her and Jesse Singleton. I asked if she would consider mediation as an option to resolve their differences and she decided to not pursue this option. The reason I concluded that the work environment was not hostile was because she never mentioned, nor did anyone else that I interviewed mention, gender or sexual harassment or discrimination because of race, color, sexual, sexuality, age, disability or Vietnam veterans status as issues associated to the work area. I did not tell her that she could not file a grievance. I told her that there was no evidence to support her allegations of a hostile work environment.

Also, I told her she had to file a grievance with her supervisor and that she should provide Randy Stoll, the UMR Grievance Officer, with a copy of the grievance.

I'm proposing the following letter.

Dear Mrs. Wann:

This is to acknowledge receipt of your letter dated September 24, 2004. As I indicated during our meeting on July 12, 2004, I did not find evidence to support your allegations of a hostile work environment as a result of discrimination because of race, color, religion, sexual, sexual orientation, national origin, age, disability, or Vietnam veterans status. However, I do recall that I informed you that you had the right to file a grievance and that the grievance should be filed with your supervisor and a copy of said grievance

should be sent to Randy Stoll, UMR's Campus Grievance Officer. [Also, I suggested that you consider mediation as a possible solution to the issues that you felt may have contributed to your perception of a hostile work environment. You chose not to pursue this option because, as I discovered during my investigation, you were already engaged in a mediation process.]

If you have any questions, please contact me at 341-6314 between 9:30 a.m. and 4:30 p.m. or via E-mail at lcg@umr.edu. I will be out of the office October 4 – 8, 2004.

Sincerely,

L. C. George

c: P. Hoskins
File

.....

Academic Council

@ University of Missouri Rolla

About Academic Council Volume XXXIII, Number 8
Committee Members Minutes of the Academic Council Meeting
 September 16, 2004

Upcoming Meetings

Meeting Minutes

Bylaws



XXXIII, 8 The meeting was called to order at 1:30 p.m. by President Todd Hubing. Roll call was taken, and absentees noted were: Paul Hammacher, Anne Magila, Pericles Stravopoulos, Trent Watts, Martin Bohner, Chad Pense, Lance Haynes, Gary Mueller, Robert Stone, Roger LaBoube, Don Myers, Hal Nystrom, S. N. Balakrishnan, H. L. Tsai, Michael Davis and Y. T. Shah.

There was a motion and second to approve the minutes of the June 17, 2004 Academic Council meeting. The Academic Council body voted to accept the minutes. There was a motion and second to approve the election of the new officers to the Academic Council. The Academic Council body voted to accept the new officers, who include: Michael Hilgers – President; Robert Schwartz – President Elect; Kurt Kosbar – Secretary; and Frank Blum – Parliamentarian. The Academic Council body welcomes the new President Michael Hilgers and congratulated Todd Hubing for a job well done.

1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT - This report was presented by Academic Council President Michael Hilgers.

- a. Introduce Lois Jaquess
- b. IFC Retreat – August 9th
 - o Issues of Concern include: (attended by Dr. Michael Hilgers & Dr. Robert Schwartz)
 - PeopleSoft
 - Conflict of interest policy
 - Programmatic enrollment management
 - UMC grievance policy
 - Policy concerning non-regular faculty
 - Incentive programs
 - Curators' and DTP reviews
 - Academic Calendar
 - System Lobbying efforts
- c. IFC Meeting – September 8

1. President Floyd met privately with UMR IFC representatives to preview his plans for forming the Chancellor Search committee. We offered comments and he acted on some of them. After hearing the issues he raised regarding his beliefs concerning the search committee, we felt that he was proceeding in a reasonable fashion.
 2. PeopleSoft – VP Caruso gave the status of the various campuses. UMR is still the only campus with student records. Report has been issued. It observed the level of angst still high. It was recommended that we move to a service center model.
 3. Budget – VP Krawitz presented the next budget to go before the assembly. It has a 20% increase, which we are not likely to get.
 4. Tuition Decoupling – Right now it appears that they will not decouple tuition in the next year.
 5. President Floyd discussed the strategic plan, Peoplesoft (executive sponsor on each campus, Chancellor Search, UMC-grievance policy, state of UM hospitals, Jim Ross (UMC hospital) will join System general officers.
- d. UMR Strategic Planning – Defer to the report section
 - e. Need a response to the incentive program before the next IFC meeting.
 - f. Need to form an ad hoc committee on Convergence of Interest – discuss more later.

B. CHANCELLOR'S REPORT - This report was presented by Chancellor Gary Thomas.

C. PROVOST'S REPORT - This report was presented by Dean Robert Mitchell.

3. REPORTS OF STANDING AND SPECIAL COMMITTEES

a. Information Technology/Computing Committee – Desktop Replacement Policy. Dr. Barbara Hale and Dr. Frank Blum gave a report from ITCC committee. Concerns were expressed that the manner in which the Provost's Desktop Replacement Policy Task Force conducted their business. The following Motion was made: "Whereas, a faculty and staff desktop computer policy has been adopted without formal input from the

faculty representatives, be it resolved, that the Academic Council respectfully requests that the Provost hold an open forum with the faculty to discuss, point by point, the amendments proposed by the faculty representatives.”

It was pointed out that the ITCC and Task Force had somewhat overlapping duties, and an amendment was made to defer action on this until the ITCC had a change to review the task force recommendations. The amendment failed. The original motion passed.

B.BUDGETARY AFFAIRS- No report given.

C. CURRICULA:

Note that Budgetary Affairs gave its approval to the name change forms. Motion was made to accept name change form NC 9. The motion carried with no discussion.

An Academic Council representative from the Ceramic Engineering Department made a motion to split to vote, separating DC 0129 from the other two. The UMR curriculum committee made a motion to approve curriculum changes and digress proposal forms DC 0129, 0130 and 0131.

There was some discussion over recent changes discussed in the Ceramic Engineering Department. A motion was made to split the vote, separating DC 0129 from the other two forms. The motion to split the vote passed. A motion was made, and passed to table the vote on DC 0129. The motion to approve DC 0130 and 131 passed.

The UMR curriculum committee made a motion to approve CC 5844, CC 5846, CC 5847, etc. (See attached report).

D. Strategic Planning Steering Committee – Michael Hilgers.

E.STUDENT AFFAIRS- No report given.

4. NEW BUSINESS

A. ANNOUNCEMENTS- President Michael Hilgers

1. Dr. Michael Hilgers noted that IFC reps are typically the academic council president, president-elect, and past-president. Following this tradition, the IFC Reps for this year: Todd Hubing, Michael Hilgers, and Robert Schwartz...

2. Elections: Took nominations from the floor for Budgetary Affairs: Robert Schwartz (2 year term), Anne Maglia (1 year). Student Affairs: Jennifer Leopold. Grievance Hearing Panel: Dr. Michael Hilgers has two names for the Grievance Committee, Jeff Cawfield and Gerald Cohen, and still needs three more names. Dr. Hilgers asked for volunteers and/or nominations, and received none. Dr. Hilgers notified the council that these committee members needed to be selected by October 1, and noted that there is no regularly scheduled academic council meeting before that date. Dr. Hilgers informally asked if there would be any objections or concerns to him appointing people, and no one objected.

3. Formation of the Ad Hoc committee on Convergence of interest. Read the recommendations of the work group. Request that interested parties contact me.

B. STAFF COUNCIL – no report given.

C. STUDENT COUNCIL- No report given.

D. COUNCIL OF GRADUATE STUDIES- No report given.

E. REFERRALS- Referred the guidelines for the creation of an incentive program to the personnel committee. Suggest that the groups organize its time to have Peter Welden down before the next IFC meeting (10/6). It would be ideal if he could talk to both the

personnel committee and the Ad Hoc
committee on COI.

There was a motion and second to adjourn the meeting.
The motion passed at 3:08 P.M.

Respectfully submitted,
(electronically submitted, 6/23/04 - 7:20 a.m.)
Kurt Kosbar, Secretary

*Minutes of the Academic Council are considered official
notification and documentation of actions approved.

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Volume XXXIII, Number 8
Minutes of the Academic Council Meeting
September 16, 2004

XXXIII, 8 The meeting was called to order at 1:30 P.M. by President Todd Hubing. Roll call was taken, and absentees noted were: Paul Hammacher, Anne Magila, Pericles Stravopoulos, Trent Watts, Martin Bohner, Chad Pense, Lance Haynes, Gary Mueller, Robert Stone, Roger LaBoube, Don Myers, Hal Nystrom, S. N. Balakrishnan, H. L. Tsai, Michael Davis, and Y. T. Shah.

There was a motion and second to approve the minutes of the June 17, 2004 Academic Council meeting. The Academic Council body voted to accept the minutes. There was a motion and second to approve the election of the new officers to the Academic Council. The Academic Council body voted to accept the new officers, who include: Michael Hilgers – President; Robert Schwartz – President Elect; Kurt Kosbar – Secretary; and Frank Blum – Parliamentarian. The Academic Council body welcomes the new President Michael Hilgers and congratulated Todd Hubing for a job well done.

1. REPORTS AND RESPONSES

A. PRESIDENT'S REPORT – This report was presented by Academic Council President Michael Hilgers.

- Introduce Lois Jaquess
- IFC Retreat – August 9th
 - Issues of concern include:
 - Peoplesoft
 - Conflict of interest policy
 - Programmatic Enrollment management
 - UMC grievance policy
 - Policy concerning non-regular faculty
 - Incentive programs
 - Curators' and DTP reviews
 - Academic Calendar
 - System Lobbying efforts
 - Attended by M. Hilgers, R. Schwartz
- IFC Meeting – September 8
 - President Floyd met privately with UMR IFC representatives to preview his plans for forming the Chancellor search committee. We offered comments and he acted on some of them. After hearing the issues he raised regarding his beliefs concerning the search committee, we felt that he was proceeding in a reasonable fashion.
 - PeopleSoft – VP Caruso gave the status of the various campuses. UMR still the only campus with student records. Report has been issued. It observed the level of angst still high. It was recommended that we move to a service center model.

- Budget – VP Krawitz presented the next budget to go before the assembly. It has a 20% increase, which we are not likely to get.
- Tuition Decoupling – Right now it appears that they will not decouple tuition in the next year.
- President Floyd discussed the strategic plan, Peoplesoft (executive sponsor on each campus), Chancellor search, UMC – grievance policy, state of UM hospitals, Jim Ross (UMC hospital) will join System general officers.
- UMR Strategic Planning – Defer to the report section
- Need a response to the incentive program before the next IFC meeting.
- Need to form an ad hoc committee on Convergence of Interest – discuss more later

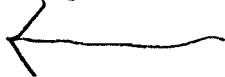
B. CHANCELLOR’S REPORT – Gary Thomas

1. Questions and Answers

C. PROVOST’S REPORT - Robert Mitchell

1. Questions and Answers

I. Reports of Standing and Special Committees



A. Information Technology/Computing Committee

2. Desktop Replacement Policy

Dr. Hale and Dr. Blum gave a report from ITCC committee. Concerns were expressed that the manner in which the Provost’s Desktop Replacement Policy Task Force conducted their business. The following Motion was made: “Whereas, a faculty and staff desktop computer policy has been adopted without formal input from the faculty representatives, be it resolved, that the Academic Council respectfully requests that the Provost hold an open forum with the faculty to discuss, point by point, the amendments proposed by the faculty representatives”.

It was pointed out that the ITCC and Task Force had somewhat overlapping duties, and an amendment was made to defer action on this until the ITCC had a chance to review the task force recommendations. The amendment failed. The original motion passed.

B. Budgetary Affairs – No report given.

C. Curricula

- Note that Budgetary Affairs gave its approval to the name change forms. Motion was made to accept name change form NC 9. The motion carried with no discussion.

The UMR curriculum committee made a motion to approve curriculum changes and degree proposal forms DC 0129, 0130 and 0131. There was some discussion over recent changes discussed in the Ceramic Engineering Department. A motion was made to split the vote, separating DC 0129 from the other two forms. The motion to split the vote passed. A motion was made, and passed to table the vote on DC 0129. the motion to approve DC 0130 and 131 passed.

The UMR curriculum committee made a motion to approve CC 5844, CC5846, CC 5847, CC 5848, CC 5849, CC 5850, CC 5851, CC 5852, CC 5853, CC 5854, CC 5855, CC5856, CC 5857, CC 5858, CC 5859, CC 5860, CC 5861, CC 5881

D. Strategic Planning Steering Committee - ~~Mike~~ ^{Michael} Hilgers

E. Student Affairs - No report given

II. Old Business

A. Action Items - None

V. New Business and Announcements

A. Announcements

- IFC Reps for this year: Todd Hubing, Michael Hilgers, Robert Schwartz
- Elections: (take nominations from the floor).
 - Budgetary Affairs: Robert Schwartz (2 year term), Anne Maglia (1 year)
 - Student Affairs: Jennifer Leopold
 - Grievance Hearing Panel: Mike Hilgers requested volunteers and/or nominations from the floor – and received none. Mike Hilgers notified the council that these committee members needed to be selected by October 1, and noted that there is no regularly scheduled academic council meeting before that date. Mike Hilgers informally asked if there would be any objections to him selecting the candidates. No one objected. (Still need 3 names) Jeff Cawfield, Gerald Cohen,
- Formation of the Ad Hoc committee on Convergence of interests
 - Read the recommendations of the working group
 - Request that interested parties contact me

B. Staff Council - ~~none~~ No report given

C. Student Council -

D. Council of Graduate Students - ~~none~~ No report given

III. Referrals

- Refer the guidelines for the creation of an incentive program to the personnel committee. Suggest that the groups organize it time to have Peter Welden down before the next IFC meeting (10/6). It would be ideal if he could talk to both the Personnel committee and the Ad Hoc committee on COI.



Curriculum

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Memo To: Academic Council
From: UMR Campus Curriculum Committee Meeting
RE: August 19 and September 2, 2004 Meetings

The UMR Campus Curricula Committee recommends to the Academic Council that the name changes on the following NC forms be approved. The following NC forms have also been routed to the Budgetary Affairs Committee for additional recommendation to the Academic Council.

Approved NC forms:

NC 9, A proposal has been made to change UMR Global to School of Extended Learning. Approved effective January 1, 2005.

The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.

Approved DC forms:

DC 0129, SoMEER, Ceramic Engineering, approved effective Winter 2005. A proposal to change the degree name for the PhD in Ceramic Engineering to Materials Science & Engineering. The Committee elected to add a statement to the PC form under item #5 stating, "Students currently enrolled in the program will have the option to graduate under the old degree name."

DC 0130, School of Engineering, Electrical and Computer Engineering, approved effective Fall 2004. A proposal to change to Hum/Soc requirements for the Bachelor of Science in Electrical Engineering curriculum so that it will correspond to the School of Engineering requirements.

DC 0131, SoMEER, Mining Engineering, approved effective Fall 2004. A proposal to change the course listing under the Explosive Engineering Emphasis area.

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 5844, Metallurgical Engineering 281, Metallurgical Thermodynamics I, change approved effective Fall 2005.

Prerequisites – Present: Met Eng 125 or Chem 52; Met Eng 126 or Comp Sci 77
Proposed: Met Eng 125 or Chem 3

CC 5846, SMIS 202, Cooperative Training in Management and Information Systems, new course approved effective Fall 2004.



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Catalog Description: On-the-job experience gained through cooperative education with industry with credit arranged through departmental co-op credit advisor. Grade received depends on quality of reports submitted and work supervisor's evaluation.

Credit Hours: 1-6 hours

Prerequisites: Completed 30 hours toward degree

CC 5847, SMIS 302, Internship, new course approved effective Fall 2004.

Catalog Description: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

Credit Hours: 1-6 hours

Prerequisites: Completed 30 hours toward degree

CC 5848, Systems Engineering 300, Special Problems, new course approved effective Winter 2005.

Catalog Description: Problems or readings on specific subjects or projects in the department.

Credit Hours: 1-6 hours Lecture

Prerequisites: Consent of instructor required

CC 5849, Systems Engineering 301, Special Topics, new course approved effective Winter 2005.

Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable title.

Credit Hours: 1-6 hours

Prerequisites: None

CC 5850, Systems Engineering 368, System Engineering and Analysis I, new course to be co-listed with existing Eng Mgt 368, approved effective Winter 2005.

Catalog Description: The concepts of Systems Engineering are covered. The objective is to provide the basic knowledge and tools of transforming an operational need into a defined system configuration through the iterative process of analysis, system integration, synthesis, optimization, and design.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate or senior standing

Co-listing: Engineering Management 368

CC 5851, Systems Engineering 400, Special Problems, new course approved effective Winter 2005.

Catalog Description: problems or reading on specific subjects or projects in the department.

Credit Hours: 1-6 hours Lecture



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Prerequisites: Consent of instructor required

CC 5852, Systems Engineering 401, Special Topics, new course approved effective Winter 2005.

Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable title.

Credit Hours: 1-6 hours

Prerequisites: None

CC 5853, Systems Engineering 468, Systems Engineering Analysis II, new course to be co-listed with existing Eng Mgt 468, approved effective Winter 2005.

Catalog Description: The objective is to provide the advanced knowledge and tools of transforming an operational need into a defined system configuration through the iterative process of analysis, system integration, synthesis, optimization and design.

These tools and concepts are reinforced with projects and case studies.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing and Sys Engineering 368

Co-listing: Engineering Management 468

CC 5854, Systems Engineering 469, Systems Architecting, new course to be co-listed with existing Eng Mgt 469, approved effective Winter 2005.

Catalog Description: The objective of the course is to provide the basic tools and concepts of systems architecting for complex systems design and operations. The following topics are covered: The need for the architect and architecting teams, The process of architecting, Architecting methods, Design of architects, The Architect's Role during System life Cycle.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing

Co-list: Engineering Management 469

CC 5855, Systems Engineering 490, Research, new course approved Winter 2005.

Catalog Description: Investigations of an advanced nature leading to the preparation of a thesis or dissertation

Credit Hours: 1-15 hours

Prerequisites: Consent of instructor required and Graduate standing

CC 5856, IST 386, Human-Computer Interaction Prototyping, changes approved effective Winter 2005.

Prerequisites – Present: IST 286, IST 385

Proposed: IST 286 or web design experience; Preceded or accompanied by IST 385



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CC 5857, IST 387, Human-Computer Interaction Evaluation, changes approved effective Winter 2005.

Prerequisites – Present: IST 386

Proposed: Preceded or accompanied by IST 385

CC 5858, IST 435, Mobile Data Management and Applications, new course approved effective Winter 2005.

Catalog Description: Mobile constraints, mobile architecture, location-dependent data management, mobile transaction processing, caching on mobile platforms, data organization for mobile applications.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing

CC 5859, ArchE 200, Special Problems, new course approved effective Winter 2005.

Catalog Description: Problems or reading on specific subjects or projects in the department.

Credit Hours: 1-6 hours

Prerequisites: Consent of instructor required

CC 5860, Civil Engineering 374, Architectural Engineering 374, Infrastructure Strengthening with Composites, changes approved effective Winter 2005.

Catalog Description – Proposed: The course presents composite materials and includes principles of reinforcing and strengthening for flexure, shear, and ductility enhancement in buildings and bridges. It covers the design of existing members strengthened with externally bonded laminates and near surface mounted composites. Case studies are discussed.

Credit Hours – Present: Lecture: 2 Lab: 1 Total: 3

Proposed: 3 hour Lecture

CC 5861, ArchE 205, Illumination for Buildings, change approved effective Winter 2005.

Credit Hours – Present: 3 hour Lecture

Proposed: 2 hour Lecture

CC 5881, Engineering Management 469, Systems Architecting, changes approved effective Winter 2005.

Course Title – Proposed: Systems Architecting

Co-list: Systems Engineering 469

For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.



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Approved EC forms:

EC 1563, Mining Engineering 301, Demolition of Buildings and Structures, approved effective Winter 2005.

Course Description: Provide participants with basics and solid grounding in the equipment, techniques and processes required for the demolition and remediation of mine plant and processing equipment sites and non-mining structures such as buildings, factories, bridges, etc.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: BE 50 or 140, and BE 110 or Min 232, US citizen or permanent resident (to fulfill the requirements of the SAFE EXPLOSIVES ACT 2003). Resident enrollment at UMR (e.g. not distance or internet).

EC 1564, Civil Engineering 401, Traffic Flow Theory and Traffic Simulation, approved effective Fall 2004.

Course Description: This course will cover the concepts of traffic flow theory and discuss how they serve as the foundation for simulation models. The course will focus on how human factors, car following theory, and flows at intersections are incorporated in to specific simulation packages such as SimTraffic, CORSIM, and VISSIM.

Credit Hours: 3 hour Lecture

Prerequisites: Graduate standing

EC 1565, Electrical Engineering 301, Electrical Machines and Control, approved effective Fall 2004.

Course Description: The objective of this course is to develop further the understanding of the performance of ac rotating electrical machines particularly when these are supplied from sinusoidal and non-sinusoidal supplies. Students will develop the necessary background to understand the effects of space and time harmonics in the machine models used in ac motor control schemes will be examined with a view to understanding their limitations and thereby gaining a better understanding of the machine performance.

Credit Hours: 3 hour Lecture

Prerequisites: Senior or graduate standing

EC 1566, Military Science 101, Rifle Marksmanship, approved effective Fall 2004.

Course Description: The course teaches basic rifle marksmanship and firearm safety.

Students will be required to learn common rules of firearms safety and how to fire airguns using standard firing positions. Targets will be scored. Students will also become familiar with military marksmanship techniques and weapons.

Credit Hours: 1 hour Lecture

Prerequisites: None



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EC 1567, IST 401, Voice Over IP Service Management, approved effective Fall 2005.

Course Description: Principles, applications, and management issues of converged voice over IP networks, including protocols, transport methods, signaling standards, and network components. Business case analysis and implementation issues associated with deployment, as well as the impact of regulatory proceedings on the deployment.

Credit Hours: 3 hour Lecture

Prerequisites: IST 336 or equivalent experience

EC 1568, IST 301, Telecommunications Management, approved effective Winter 2005.

Course Description: Management of the business and technology aspects of telecommunications services, including both the skills to manage a business and the skills to effectively design, select, implement, and operate telecommunications technology. Topics include managerial skills, technology planning, operations management, and planning & acquisition management.

Credit Hours: 3 hour Lecture

Prerequisites: Bus 110, Bus 120, and IST 321; or equivalent experience

EC 1569, IST 301, Introduction to Business Intelligence, approved effective Winter 2005.

Course Description: Application of “intelligent” techniques from CS (AI, data mining), and OR (stochastic modeling, simulation, forecasting) to business decision-making. Overview of the theory, but with a focus on the application to business problem solving. Use of SAP as a tool to explain and explore how an enterprise system utilizes the techniques in, for example, retaining customers and optimizing processes.

Credit Hours: 3 hours Lecture

Prerequisites: Database experience

EC 1572, Civil Engineering 301, Architectural Engineering 301, Structural Engineering with Emerging Materials, approved effective Fall 2004.

Course Description: Properties of and structural design with: fiber reinforced polymer (FRP) composites, high-performance concrete (HPC), fiber reinforced concrete (FRC), high-performance steel (HPC), and laminated wood (Glulam).

Credit Hours: 3 hour Lecture

Prerequisites: CE 221 and CE 223

EC 1579, Basic Engineering 301, Reverse Engineering and Design Models, approved effective Winter 2005.

Course Description: Reverse engineering involves predicting what a current product must do in order to evolve. Dissection and experimentation are used to model and analyze a product’s performance. Emphasis is placed on formulating design models using a bond graph approach, identifying appropriate design variables and



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simulating product performance using commercially available computer-aided design applications.

Credit Hours: 3 hour Lecture

Prerequisites: BE 220 or Graduate Student Standing

EC 1580, Computer Engineering 401, Scientific Methods in Computational Intelligence, approved effective Winter 2005.

Course Description: Observation, hypothesis and experimentation as it pertains to contemporary topics in computational intelligence.

Credit Hours: Lecture: 1 Lab: 1 Total: 2

Prerequisites: At least one year of graduate standing

J. Keith Nisbett, Chair
UMR Campus Curricula Committee