

OFFICE OF INSTITUTIONAL RESEARCH

A FACULTY IN TRANSITION
A STUDY OF THE CHANGES IN JAMES MADISON
UNIVERSITY'S INSTRUCTIONAL FACULTY SINCE 1986

July 2005



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A Faculty In Transition

Introduction

James Madison University is a very dynamic institution. In the past 19 years JMU has experienced significant changes in many areas. The on-campus headcount increased from 9,757 in 1986 to 15,809 in 2004. Additional majors were added or expanded, including the development of the Integrated Science and Technology major in the College of Integrated Science and Technology, the expansion of the computer-related disciplines, and the development of the Media Arts and Design major. Additional faculty have been added to meet enrollment demands for the new or expanded majors.

The Office of Institutional Research (OIR) is responsible for collecting and reporting data on JMU's faculty to the state and federal government along with organizations such as American Association of University Professors (AAUP) and the College and University Professional Association (CUPA). In 1986 OIR created an electronic database of faculty to improve the analyses of faculty data and respond to various constituencies who need to know about our faculty. This database has become a very valuable warehouse of information about faculty.

University Planning & Analysis felt it was appropriate to review the changes in JMU's faculty to shed light on trends that could affect policy. It can help senior administrators to understand better the needs of JMU's faculty. This is the third report in this series and covers the period 1986 to Fall 2004.

Research Questions

There are many questions that could be asked about the changes in JMU's faculty. Three primary research questions are addressed by this study

1. How have faculty demographics (percent tenured, percent with terminal degree, race/ethnicity, gender, etc.) changed since 1986?
2. How well have faculty salaries and compensation kept up with inflation?
3. How do faculty allocate their work time? How has this changed in the last 15 years?

Methodology

The Office of Institutional Research has been reporting salary statistics to the Commonwealth of Virginia, the federal government, and selected outside organizations (AAUP, CUPA) since the 1970's. Beginning in 1986 these data have been stored in electronic databases. Five years ago staff in OIR combined all the databases. This 19-year old database of official JMU data is a valuable resource for analyzing the changes in JMU's faculty and determining trends. The data are kept in Microsoft Access tables. Standard queries and reports were developed in Access to analyze the data for this report. Data about faculty activity come from a periodic Faculty Activity Survey that has

been conducted since the early 1970s. While it is recognized that many librarians are considered to be faculty and can obtain tenure, standard definitions of faculty for national data collections does not include them in the definition of faculty. Therefore, librarians are not included in this study.

Results

Demographics

There have been some meaningful changes in the demographics of JMU's instructional faculty since 1986. This section displays tables and graphs that highlight some of these changes. Tables 1 and 2 display information about the number of faculty and tenure status. Tables 3 and 4 display information about the number of faculty who have terminal degrees. Tables 5 and 6 display the changes in gender and ethnic distributions. Table 7 displays the changes in the number of 10- and 12-month faculty. Tables 8, 9, and 10 display information about the number of years of employment and average age of the faculty.

Table 1
Full-Time Instructional Faculty By Tenure Status And Per Student

Year	Number Faculty	Tenured Assistant Professor	Tenured Associate Professor	Tenured Professor	Tenured Total	Percent Tenured	Regular Session FTES	FTE Students Per FTE Faculty
1986-87	450	36	127	134	297	66%	9,297	17.9
1987-88	451	30	134	137	301	67%	9,617	18.4
1988-89	470	35	126	153	314	67%	10,123	18.1
1989-90	471	31	124	163	318	68%	10,365	18.6
1990-91	472	26	136	175	337	71%	10,423	18.8
1991-92	477	28	130	184	342	72%	10,620	18.9
1992-93	492	26	127	182	335	68%	10,720	18.3
1993-94	508	24	141	183	348	69%	10,711	18.2
1994-95	520	18	139	200	357	69%	10,869	18.3
1995-96	528	15	139	210	364	69%	11,087	18.8
1996-97	559	16	145	212	373	67%	12,119	19.1
1997-98	581	11	140	207	358	62%	12,877	19.2
1998-99	617	10	142	199	351	57%	13,539	18.8
1999-00	640	11	135	209	355	55%	13,697	18.3
2000-01	675	6	133	203	342	51%	13,823	17.5
2001-02	685	7	128	210	345	50%	14,094	17.5
2002-03	704	7	123	220	350	50%	14,458	17.4
2003-04	721	6	131	212	349	48%	14,732	17.3
2004-05	749	5	141	216	362	48%	*14,800	16.8

* Regular session FTES estimated from March 2005 revised enrollment projections

Table 1 shows that the number of faculty increased by 66 percent between 1986 and 2004. The number of full-time equivalent students (FTES) increased by 59 percent and the number of FTE faculty per FTES decreased slightly. The percentage of faculty with tenure increased from 66 percent in 1986 to 72 percent in 1991. Since 1991 the percentage of faculty with tenure steadily decreased to 48 percent in 2004. As shown in Table 2, the percent of faculty tenured varies by college from a low of 37 percent in Education to a high of 55 percent in Business.

Changes In Total Faculty And Tenured Faculty

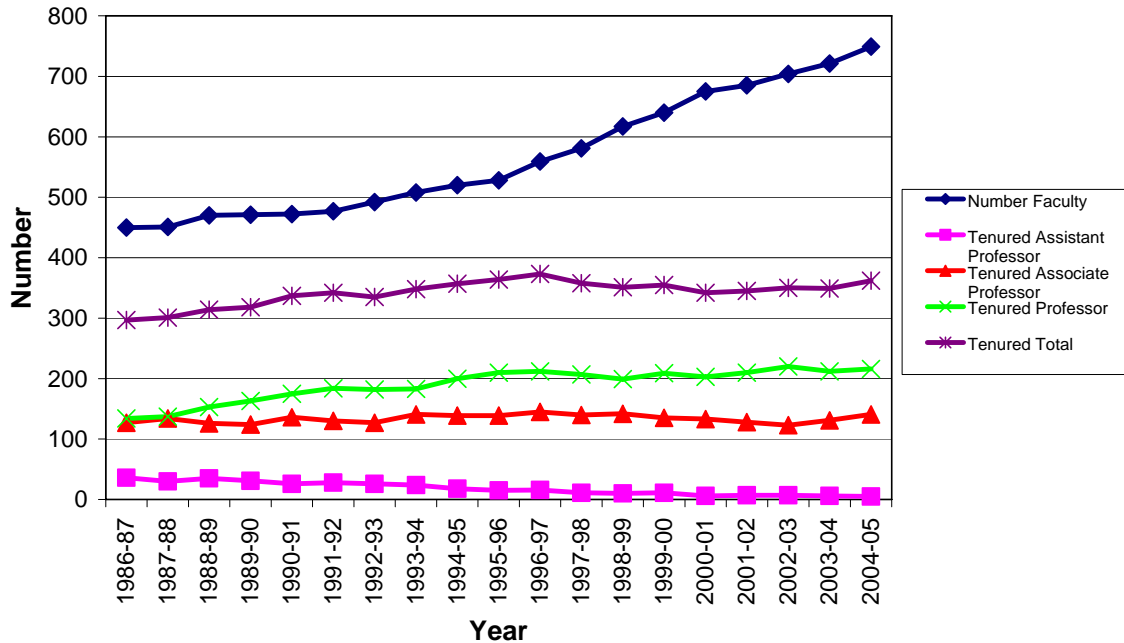


Table 2
Number Of Full-Time Instructional Faculty And Tenure Status
By College, Fall 2004

College	Number Faculty	Number Tenured By Rank			Total	Percent Tenured
		Assistant Professor	Associate Professor	Professor		
Arts & Letters	290	2	52	84	138	48%
Business	111	1	29	31	61	55%
Education	43	1	6	9	16	37%
General Education	3	0	1	0	1	33%
Science & Mathematics	107	1	23	34	58	54%
Integrated Science & Technology	184	0	30	53	83	45%
Other	12	0	0	6	6	50%
Total	749	5	141	216	362	48%

Table 3
Number And Percentage Of Faculty Holding Terminal Degree

Year	Number of Faculty		Number With Terminal Degree		Percentage Terminal Degree		Total Percentage Holding Terminal Degree
	Male	Female	Male	Female	Male	Female	
1986-87	331	119	256	61	77%	51%	70%
1987-88	332	119	256	63	77%	53%	71%
1988-89	337	133	265	72	79%	54%	72%
1989-90	333	138	268	76	80%	55%	73%
1990-91	330	142	272	80	82%	56%	75%
1991-92	335	142	282	93	84%	65%	79%
1992-93	342	150	285	105	83%	70%	79%
1993-94	348	160	295	116	85%	73%	81%
1994-95	349	171	299	120	86%	70%	81%
1995-96	354	174	305	131	86%	75%	83%
1996-97	369	190	312	137	85%	72%	80%
1997-98	378	203	330	165	87%	81%	85%
1998-99	394	223	341	178	87%	80%	84%
1999-00	402	238	350	179	87%	75%	83%
2000-01	422	253	359	189	85%	75%	81%
2001-02	426	259	366	199	86%	77%	82%
2002-03	436	268	381	207	87%	77%	84%
2003-04	438	283	376	215	86%	76%	82%
2004-05	444	305	379	229	85%	75%	81%

Table 4
Number And Percentage Of Faculty Holding Terminal Degree
By College, Fall 2004

College	Number of Faculty		Number With Terminal Degree		Percentage Terminal Degree		Total Percentage Holding Terminal Degree
	Male	Female	Male	Female	Male	Female	
Arts & Letters	174	116	138	84	79%	72%	77%
Business	78	33	62	21	79%	64%	75%
Education	11	32	10	25	91%	78%	81%
General Education	1	2	1	0	100%	0%	33%
Science & Mathematics	72	35	70	28	97%	80%	92%
Integrated Science & Technology	103	81	93	65	90%	80%	86%
Other	6	6	6	6	100%	100%	100%
Total	444	305	379	229	85%	75%	81%

The percentage of faculty holding the terminal degree increased from 70 percent in 1986 to 81 percent in 2004. The year with the highest percentage of terminal degreeed instructional faculty was 1997 (85 percent). The percentage of faculty with the terminal degree varies from 92 percent in the Science & Mathematics to 75 percent in Business.

Percentage Of Faculty With Terminal Degree By Gender

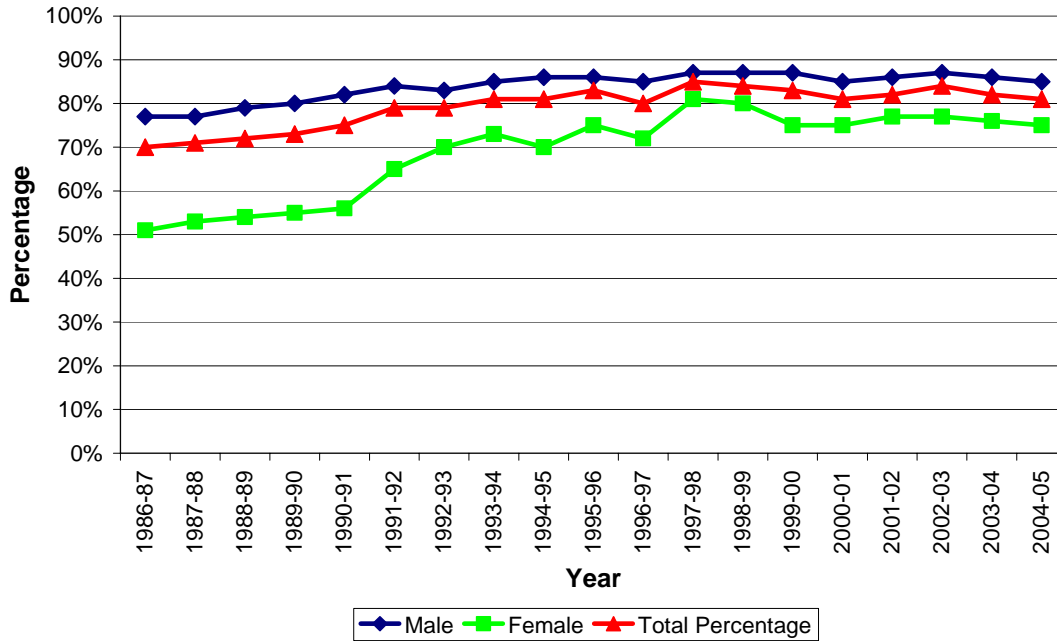


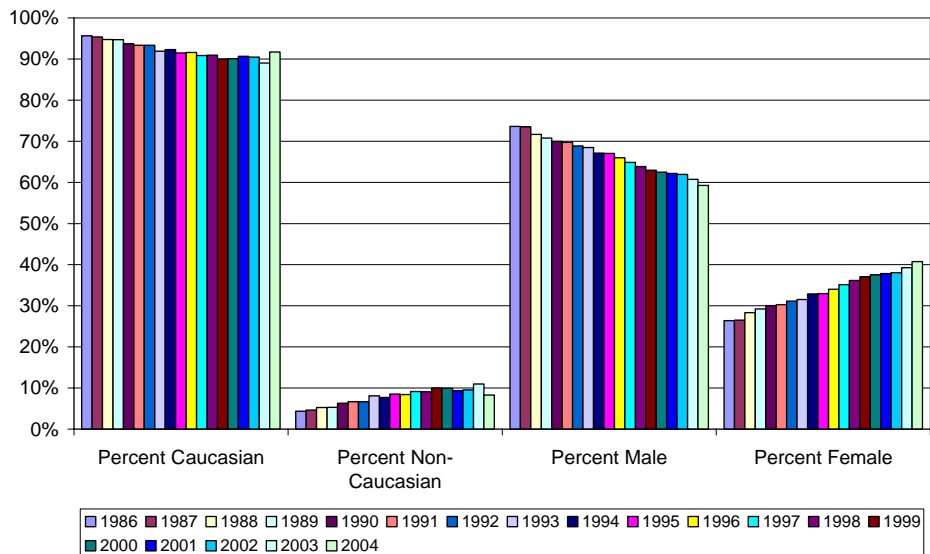
Table 5
Changes In Gender And Ethnic Origin, Instructional Faculty

Fall	Faculty Total	Gender			Ethnicity							
		Male	Female	Percent Female	African-American	American Indian	Asian	Caucasian	Hispanic	Unknown	Percent Non-White	
1986	459	338	121	26%	8		8	439	4		4%	
1987	457	336	121	26%	8		9	436	4		5%	
1988	477	342	135	28%	10		10	452	5		5%	
1989	476	337	139	29%	11		9	451	5		5%	
1990	476	333	143	30%	14		10	446	6		6%	
1991	482	336	146	30%	16		10	450	6		7%	
1992	495	341	154	31%	14	1	12	462	6		7%	
1993	508	348	160	31%	16	1	17	467	7		8%	
1994	520	349	171	33%	16	1	16	480	7		8%	
1995	528	354	174	33%	19	1	15	483	8	2	9%	
1996	559	369	190	34%	20	2	15	512	8	2	8%	
1997	581	377	204	35%	25	1	17	528	8	2	9%	
1998	617	394	223	36%	24	2	20	561	9	1	9%	
1999	640	403	237	37%	30	3	22	576	9		10%	
2000	675	422	253	37%	32	2	23	608	10		10%	
2001	685	426	259	38%	30	2	22	621	10		9%	
2002	704	436	268	38%	30	2	24	637	11		10%	
2003	721	438	283	39%	27	2	20	642	14		9%	
2004	749	444	305	41%	21	2	27	687	12		8%	

**Table 6
Gender And Ethnic Origin, Instructional Faculty, Fall 2004**

College	Faculty Total	Male	Female	African-American	American Indian	Asian	Caucasian	Hispanic
Arts & Letters	290	174	116	8	0	8	266	8
Business	111	78	33	5	1	9	95	1
Education	43	11	32	1	0	2	39	1
General Education	3	1	2	0	0	0	3	0
Integrated Science & Technology	183	103	80	7	1	3	171	1
Science & Mathematics	107	72	35	0	0	4	102	1
Other	12	5	7	0	0	1	11	0
Total	749	444	305	21	2	27	687	12
Percentages								
Arts & Letters	290	60%	40%	3%	0%	3%	92%	3%
Business	111	70%	30%	5%	1%	8%	86%	1%
Education & Psychology	43	26%	74%	2%	0%	5%	91%	2%
General Education	3	33%	67%	0%	0%	0%	100%	0%
Integrated Science & Technology	183	56%	44%	4%	1%	2%	93%	1%
Science & Mathematics	107	67%	33%	0%	0%	4%	95%	1%
Other	12	42%	58%	0%	0%	8%	92%	0%
Total	749	59%	41%	3%	0%	4%	92%	2%

Changes In Gender And Ethnic Origin



The JMU faculty is more diverse than in 1986. The percentage of non-Caucasian faculty increased from four percent in 1986 to 11 percent in 2003, but declined to eight percent in 2004. At the same time the percentage of female faculty increased from 26 to 41 percent.

In 1987 the months in which department heads were contractually employed increased from 10 to 12 months. In 1987 7.2 percent of all instructional faculty were employed 12 months. By 2004 this had changed to 9.2 percent.

Table 7
Changes In 10- And 12-Month Instructional Faculty

Fall	10-Month				12-Month			
	Professor	Associate Professor	Assistant Professor	Instructor	Professor	Associate Professor	Assistant Professor	Instructor
1986	137	149	126	38	0	1	0	2
1987	123	142	119	40	18	10	1	4
1988	132	137	130	39	26	7	2	4
1989	138	137	117	41	28	10	3	2
1990	150	140	110	35	27	11	2	1
1991	156	134	114	37	31	7	1	2
1992	151	130	132	42	32	5	2	2
1993	160	145	128	37	27	6	3	2
1994	172	146	129	31	30	8	1	3
1995	183	150	129	27	28	7	2	2
1996	186	163	136	35	27	8	2	2
1997	184	173	153	39	26	4	2	0
1998	180	184	178	46	23	3	3	0
1999	183	174	188	51	30	4	10	0
2000	180	177	218	56	28	6	9	1
2001	185	180	206	67	32	4	10	1
2002	194	173	218	67	34	8	10	0
2003	184	181	224	74	37	8	11	2
2004	178	185	232	85	42	6	17	4

In the last five years an influx of new faculty resulted from many senior faculty retiring and an increase in new positions for enrollment growth. When compared with 14 years ago, the profile of the faculty years in service at JMU has changed. In 1990 32 percent of the faculty had five years or less experience. The average number of years was 11.6. In 2004 42.7 percent had five years or less experience and averaged 9.9 years. As shown in Table 10, however, the average age of the faculty has changed very little since 1990.

**Table 8
Years Employed At JMU**

Years Employed	1990-91	Percent Of Total	2004-05	Percent Of Total
New	33	6.9%	81	10.8%
1-5	121	25.4%	239	31.9%
6-10	72	15.1%	170	22.7%
11-15	83	17.4%	78	10.4%
16-20	88	18.5%	60	8.0%
21-25	53	11.1%	44	5.9%
26-30	19	4.0%	43	5.7%
31+	7	1.5%	34	4.5%
Average Years	11.6		9.9	
Average Age	46.6		47.1	
Total	476		749	

**Changes In The Percentage Of Faculty At JMU
1990-91 To 2004-05**

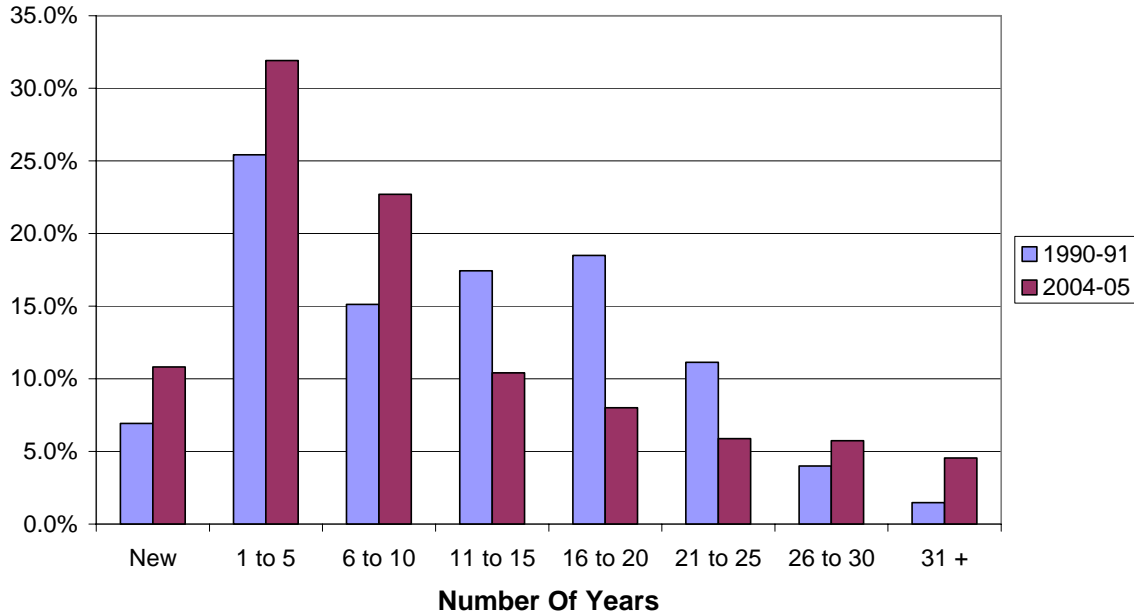


Table 9
Years Employed At JMU And Average Age
By College, Fall 2004

Years Employed	Arts & Letters	Business	Education	General Education	Science & Mathematics	Integrated Science & Technology	Other	Total
New	34	7	10	12	0	16	2	81
1-5	98	30	12	34	1	60	4	239
6-10	53	23	11	20	1	60	2	170
11-15	25	16	5	8	0	22	2	78
16-20	22	15	0	11	1	9	2	60
21-25	20	10	1	7	0	6	0	44
26-30	14	10	4	8	0	7	0	43
31+	24	0	0	7	0	3	0	34
Total	290	111	43	107	3	183	12	749
Average Years	10.4	11.2	7.4	11.1	9.7	8.3	7.3	9.9
Average Age	46.5	48.0	47.9	45.9	47.7	48.3	44.8	47.1
Percent 5 Years Or Less	45.5	33.3	51.2	43.0	33.3	41.5	50.0	42.7

Table 9 compares the average years at JMU and average age for the Fall 2004 colleges. The faculty has less JMU history than 14 years ago. The average number of years at JMU varies from 7.4 in the College of Education to 11.2 in the College of Business. The average age varies from 48.3 years in the College of Integrated Science & Technology to 46.5 in the College of Arts & Letters. The average age of the faculty (both new and continuing) has changed little since 1990-91.

Table 10
Average Number Of Years At JMU And Average Age

YEAR	Headcount	JMU Years	Average Age	Average Age Of New Faculty
1986-87	459	9.9	44.4	38.0
1987-88	457	10.5	44.9	35.3
1988-89	477	10.6	45.3	37.0
1989-90	476	11.2	45.7	34.8
1990-91	476	11.6	46.5	39.8
1991-92	482	12.0	46.8	35.7
1992-93	495	11.1	46.3	38.3
1993-94	508	11.5	46.7	38.5
1994-95	520	12.0	47.2	38.4
1995-96	528	12.1	47.5	37.7
1996-97	559	11.8	47.5	38.7
1997-98	581	11.2	47.3	38.4
1998-99	617	10.3	46.9	39.4
1999-00	640	10.4	47.2	38.7
2000-01	675	9.9	46.8	37.7
2001-02	685	10.1	47.2	39.1
2002-03	704	10.3	47.7	37.1
2003-04	721	10.2	47.5	38.3
2004-05	749	9.9	47.1	38.0

Each year JMU hires many new faculty. How long do they tend to remain at JMU? Table 11 displays the number of new assistant professors hired since 1986. All were hired into tenure track positions. Between 1986 and 1997, 57 percent of those hired were employed seven years later. These statistics were similar to a study conducted at the University of Wisconsin on new assistant professors faculty.

Table 11
Retention Of New Tenure Track Assistant Professors

	Begin	1 Year	2 Years	3 Years	4 Years	5 Years	6 Years	7 Years	Percent Retained 7 Years
Fall									
1986	13	12	11	10	10	9	8	8	62%
1987	10	10	10	9	7	7	7	5	50%
1988	13	13	11	11	10	10	10	8	62%
1989	6	6	6	5	5	5	5	4	67%
1990	12	12	12	12	11	10	10	9	75%
1991	11	10	10	9	8	8	8	6	55%
1992	16	15	13	11	11	10	10	10	63%
1993	14	14	12	11	13	12	9	6	43%
1994	11	11	8	8	7	7	7	7	64%
1995	18	17	16	12	11	10	9	8	44%
1996	4	3	3	3	3	2	2	2	50%
1997	15	12	10	10	10	9	9	9	60%
1998	19	18	18	14	12	12	11		
1999	14	14	10	9	8	7			
2000	34	31	29	24	25				
2001	26	25	24	22					
2002	22	22	20						
2003	22	21							
2004	40								
Percent Retained	320	95%	86%	76%	72%	67%	65%	57%	

How qualified are the new faculty? One measure of faculty qualifications is the percent that hold a terminal degree in their field. Table 12 displays the number of new faculty and percentage with a terminal degree by rank. A small percentage of instructors have a terminal degree. Seventy-five percent of new assistant professors hold a terminal degree while 92 percent of new professors and 90 percent of associate professors hold the terminal degree. The overall percentage with a terminal degree varied from a low of 38 percent in 1991 to a high of 81 percent in 2003.

Table 12
New Faculty Holding Terminal Degree

Fall	Instructor		Assistant		Associate		Professor		All Ranks	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent
1986	18	6%	22	68%	7	100%	4	100%	51	53%
1987	10	0%	17	82%	3	100%	1	100%	31	58%
1988	17	0%	22	73%	5	80%	2	100%	46	48%
1989	10	0%	13	85%	2	100%	2	100%	27	56%
1990	9	0%	17	53%	3	100%	4	100%	33	48%
1991	17	6%	14	79%	1	0%	0	0%	32	38%
1992	23	17%	38	76%	3	100%	4	100%	68	59%
1993	10	10%	20	80%	7	100%	4	100%	41	68%
1994	8	25%	24	75%	3	100%	3	100%	38	68%
1995	16	19%	37	86%	6	100%	3	100%	62	71%
1996	15	20%	34	79%	10	90%	1	0%	60	65%
1997	13	23%	44	91%	12	83%	3	33%	72	75%
1998	13	23%	62	84%	10	90%	4	100%	89	76%
1999	6	0%	42	71%	7	86%	3	100%	58	67%
2000	10	10%	57	63%	13	92%	1	100%	81	62%
2001	11	27%	36	69%	11	100%	2	100%	60	68%
2002	7	29%	42	83%	1	100%	1	100%	51	76%
2003	9	44%	50	84%	2	100%	1	100%	62	81%
2004	15	10%	53	79%	5	100%	5	100%	78	74%
All Years	237	14%	644	75%	111	90%	48	92%	1,040	64%

Compensation

The tables and graphs in this section focus on how faculty have been compensated since 1986. Table 13 displays the average salary by rank by year as reported to the American Association of University Professors (AAUP). Table 14 displays total compensation (salary + benefits) since 1986. Table 15 shows the percent increases for continuing faculty. Continuing assistant professors had greater percentage salary increases than professors and associate professors in all but three years since 1986. Although professors have the highest average salary and compensation, their overall percentage increases tended to be smaller than associate or assistant professors.

**Table 13
Average Salary By Rank**

Year	Professor	Associate Professor	Assistant Professor	Instructor	All Ranks	Percent Change
1986-87	39,389	33,818	29,341	21,555	33,225	--
1987-88	42,499	36,420	31,052	23,547	35,647	7.3%
1988-89	46,235	39,246	33,435	25,607	38,724	8.6%
1989-90	50,261	42,935	36,917	27,943	42,618	10.1%
1990-91	51,698	44,177	37,768	29,398	44,329	4.0%
1991-92	50,829	43,791	36,596	28,603	43,576	-1.7%
1992-93	50,958	43,650	35,296	29,113	42,800	-1.8%
1993-94	52,135	44,674	36,558	28,506	44,086	3.0%
1994-95	55,254	47,439	39,017	30,866	47,286	7.3%
1995-96	56,991	48,235	40,415	31,180	48,857	3.3%
1996-97	59,158	49,899	40,711	32,069	49,979	2.3%
1997-98	62,312	53,371	43,038	33,604	52,519	5.1%
1998-99	66,342	55,943	44,418	34,622	54,394	3.6%
1999-00	70,206	58,818	46,009	36,407	56,859	4.5%
2000-01	72,223	59,695	46,518	39,359	57,407	1.0%
2001-02	72,325	59,153	46,376	39,531	57,349	-0.1%
2002-03	71,690	58,312	46,620	39,601	57,077	-0.5%
2003-04	73,066	59,758	47,852	41,483	58,030	1.7%
2004-05	77,648	62,798	50,559	42,936	60,731	4.7%

**Table 14
Total Compensation By Rank**

Year	Professor	Associate Professor	Assistant Professor	Instructor	All Ranks	Percent Change	Benefits As Percent Of Salary
1986-87	49,019	42,281	36,874	27,428	41,564	--	25.1
1987-88	52,772	45,464	38,999	29,924	44,525	7.1%	24.9
1988-89	57,153	48,790	41,802	32,355	48,146	8.1%	24.3
1989-90	62,410	53,820	46,581	35,746	53,358	10.8%	25.2
1990-91	65,579	56,530	48,729	38,503	56,677	6.2%	27.9
1991-92	63,107	54,723	45,909	36,747	54,418	-4.0%	24.9
1992-93	62,784	54,367	44,698	37,443	53,359	-1.9%	24.7
1993-94	64,594	55,995	46,615	37,108	55,291	3.6%	25.4
1994-95	68,010	59,039	49,295	39,675	58,822	6.4%	24.4
1995-96	70,286	60,351	49,902	39,982	60,974	3.7%	24.8

Year	Professor	Associate Professor	Assistant Professor	Instructor	All Ranks	Percent Change	Benefits As Percent Of Salary
1996-97	72,818	62,219	51,343	41,139	62,178	2.0%	24.4
1997-98	77,058	66,706	54,563	43,357	65,641	5.6%	25.0
1998-99	82,737	70,425	56,646	44,959	68,535	4.4%	26.0
1999-00	88,083	74,515	59,096	47,557	72,113	5.2%	26.8
2000-01	91,232	76,248	60,248	51,548	73,399	1.8%	27.9
2001-02	91,288	75,730	60,337	51,985	73,447	0.7%	28.1
2002-03	88,978	74,325	60,802	52,242	72,589	-1.7%	27.2
2003-04	93,048	77,559	63,350	55,542	75,355	3.8%	29.9
2004-05	99,966	82,550	67,825	58,452	79,907	6.0%	31.6

Table 15
Percent Salary Increases For Continuing¹ Faculty

Fall	Professor	Associate Professor	Assistant Professor	Instructor	Total
1986-87	11.74	11.81	11.95	10.32	11.75
1987-88	7.10	8.60	9.40	9.70	8.30
1988-89	9.80	10.20	11.80	12.60	10.40
1989-90	9.01	10.02	11.59	14.54	10.18
1990-91	3.21	3.78	4.49	3.84	3.69
1991-92	0.54	1.47	0.81	1.69	0.94
1992-93	0.57	0.38	0.31	0.33	0.46
1993-94	2.30	3.00	3.03	3.52	2.72
1994-95	3.35	3.95	4.59	5.06	3.85
1995-96	2.88	3.98	4.80	9.28	3.76
1996-97	4.15	4.62	5.49	5.28	4.59
1997-98	5.89	7.23	7.59	7.06	6.69
1998-99	6.05	6.75	7.51	8.35	6.65
1999-00	5.63	6.73	7.38	7.21	6.43
2000-01	2.24	3.64	4.32	5.27	3.29
2001-02	0.60	1.11	1.55	0.79	0.99
2002-03	0.30	0.18	0.52	1.09	0.36
2003-04	2.31	4.10	5.35	6.44	3.87
2004-05	7.49	7.30	7.36	5.71	7.27

¹ Faculty who were employed the previous year. Faculty who were promoted were analyzed as if they were in the previous rank. For example, an associate professor who was promoted to professor was analyzed as an associate professor with the new salary.

Continuing Faculty Salary Increases By Rank

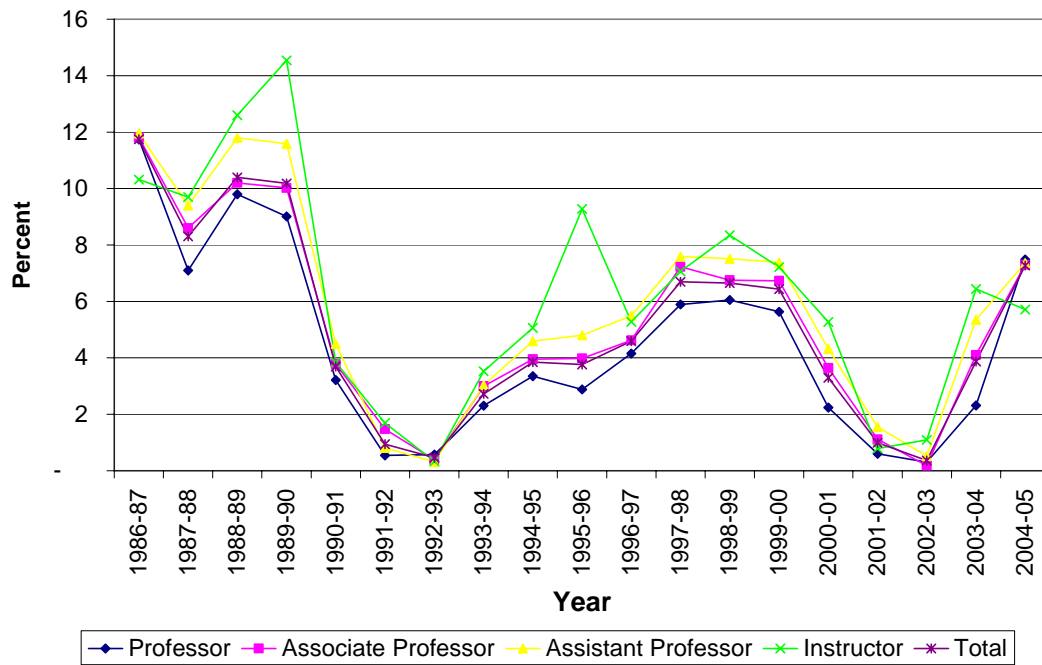


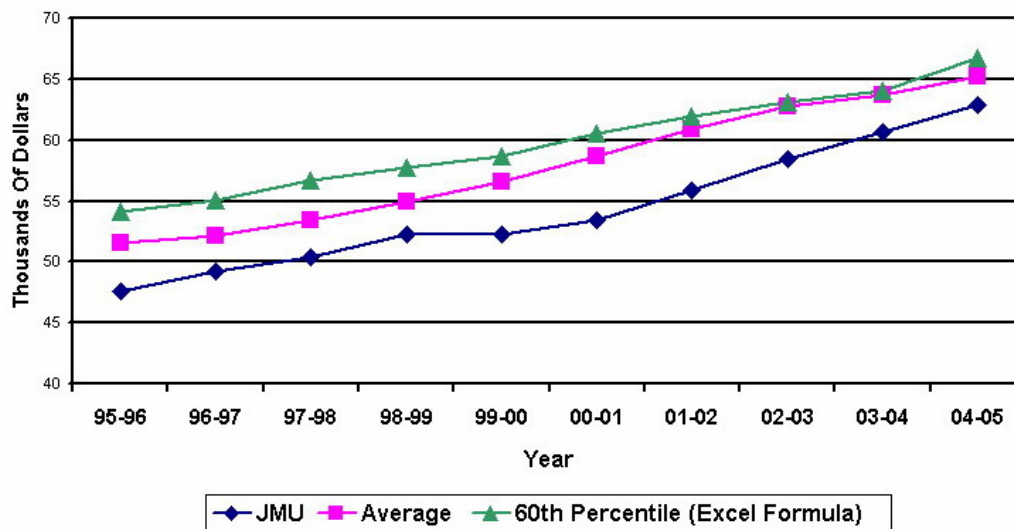
Table 16 shows how JMU compares with its faculty salary peers. The stated goal of the Commonwealth is that each institution's average salary, as reported to AAUP, would be at the 60th percentile. That goal has not been reached in the last 10 years.

Table 16
Summary Of AAUP Faculty Salary Data As Published In Academe
1995-96 To 2004-05
(In Thousands Of Dollars)

State	Institution	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	% Chg
IN	University of Notre Dame	68.8	71.3	74.1	77.8	79.7	83.9	87.2	89.4	92.5	94.7	38%
DE	University of Delaware	61.2	63.7	66.6	69.3	71.1	72.9	75.1	76.9	79.4	81.8	34%
RI	University of Rhode Island	57.0	59.4	61.2	63.2	65.9	67.7	70.5	74.5	74.6	73.7	29%
NY	SUNY - Binghamton	59.2	58.4	57.5	59.6	60.4	65.3	68.0	70.4	71.3	74.1	25%
CA	California State Univ.-Chico	58.7	60.5	62.2	60.9	64.3	64.9	67.1	70.1	70.4	70.2	20%
PA	Indiana University of Pennsylvania	59.1	58.4	60.4	60.9	61.8	63.6	66.7	68.3	69.5	71.0	20%
TX	Texas Christian University	54.7	56.1	57.7	59.6	61.1	63.6	66.2	67.6	69.0	70.2	28%
RI	Providence College	53.9	56.0	57.3	58.0	59.4	61.5	63.6	66.2	68.2	70.0	30%
CA	California State Univ.-Fresno	58.5	60.0	61.1	60.5	63.8	64.2	65.9	67.6	67.7	67.2	15%
TX	Baylor University	51.0	51.3	54.4	56.7	58.1	59.7	61.3	62.5	64.1	64.8	27%
OH	Ohio University Main Campus	59.8	56.1	57.6	58.0	58.8	60.7	62.0	63.3	63.7	68.1	14%

State	Institution	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	% Chg
IL	Bradley University	46.8	47.5	48.5	50.9	51.9	54.0	58.7	61.4	62.8	63.9	37%
OR	University of Oregon	46.8	47.2	49.2	52.5	53.4	56.9	57.6	59.8	61.0	61.7	32%
IA	University of Northern Iowa	47.6	49.2	50.4	52.2	52.2	53.4	55.9	58.5	60.7	62.9	32%
NY	SUNY College - Brockport	50.7	49.9	49.4	51.4	52.7	55.1	56.5	59.2	58.9	61.0	20%
VA	James Madison University	48.9	50.0	52.5	54.4	56.9	57.4	57.3	57.1	58.0	60.7	24%
NC	Appalachian State University	45.3	47.9	49.7	50.6	52.7	54.4	55.9	58.0	57.9	59.8	32%
TN	University of Tennessee - Chattanooga	46.2	46.8	46.1	47.5	48.4	50.5	52.4	54.0	55.8	57.4	24%
MD	Salisbury State University	43.5	43.5	44.6	47.1	49.9	52.3	54.2	55.6	55.7	56.5	30%
WA	Western Washington University	47.4	46.8	47.7	48.6	50.4	53.0	55.3	55.8	55.6	56.6	19%
TN	Middle Tennessee State University	43.2	44.0	45.8	45.8	48.1	50.1	53.2	53.6	55.6	56.6	31%
MD	Towson University	NA	47.9	49.5	51.3	51.3	53.1	56.1	57.1	55.4	57.4	20%
NY	SUNY College - Oswego	46.0	45.2	45.9	47.8	49.6	52.0	51.8	54.8	53.6	55.8	21%
ND	University of North Dakota - Main Campus	38.4	39.7	41.8	43.3	44.8	46.4	49.2	51.8	53.5	56.0	46%
SC	College of Charleston	40.9	42.4	43.8	44.5	47.4	49.5	50.5	51.6	52.6	55.1	35%
Peer Average		51.5	52.1	53.4	54.9	56.6	58.7	60.9	62.8	63.7	65.3	27%
PEER 60th Percentile (Using MS Excel Formula)		54.1	55.1	56.7	57.7	58.7	60.5	61.9	63.1	64.0	66.7	23%
JMU Difference From 60th Percentile (In Thousands)		(5.20)	(5.10)	(4.20)	(3.30)	(1.80)	(3.10)	(4.60)	(6.00)	(6.00)	(6.00)	

**Comparison Of Peer Group Faculty Salaries
JMU, Average, And 60th Percentile
1995-96 To 2004-05**



Faculty Activity

The Office of Institutional Research has conducted Faculty Activity Surveys since 1973. The value in these surveys is to help communicate to JMU's various publics how faculty allocate their time. In tables 16 and 17 the results of these surveys since 1974 is displayed. The average number of hours spent by faculty during a typical week has varied only slightly from 52.4 hours to 56.0 hours. The value comes in reviewing the percentage distribution of effort over the years. As shown in Table 17, faculty devoted a higher percentage of their time to instructional activity in 2003 (67.7 percent) than in 1974 (56.0 percent). The percentage of time devoted to research/scholarly activity, public service, academic support, and student support decreased from 1974. These data appear to indicate that faculty did not work any more hours in 2003, but that their effort is increasingly focused on instructional activities.

Table 18 displays the percentage of time devoted to different activities by college. There was little variance between colleges.

This survey will now be conducted once every five years. The next survey will be in Fall 2008.

Table 17
Average Hours By Type Of Activity

Year	Respondents	Class Meet	Class Prep.	Other Instruction	Total Instruction	Research/Scholarly	Public Service	Academic Support	Student Support	Institutional Support	Total
1974	315	12.9	16.5	2.0	31.4	5.2	6.3	5.8	2.5	4.8	56.0
1976	369	11.8	17.1	5.5	34.4	7.6	2.2	4.6	3.3	2.7	54.8
1978	403	12.2	17.2	4.8	34.2	8.7	2.2	4.5	1.8	3.2	54.6
1981	421	12.0	16.3	4.5	32.8	8.3	2.2	4.1	1.9	3.0	52.3
1985	419	11.4	15.3	4.6	31.3	9.4	2.4	4.5	1.9	2.9	52.4
1987	437	10.7	15.1	5.0	30.9	10.7	2.2	4.9	1.8	3.4	53.8
1988	452	11.0	14.6	7.2	32.7	9.5	1.9	4.6	1.7	3.8	54.3
1991	467	10.5	17.9	5.0	33.4	9.5	1.8	4.3	1.6	3.4	54.0
1993	483	10.3	18.2	4.7	33.2	9.9	1.8	4.9	1.0	2.8	53.5
1995	493	10.6	18.1	4.6	33.3	10.0	1.5	4.8	1.1	2.9	53.7
1997	495	10.0	15.2	11.7	36.9	9.5	1.4	3.9	0.7	2.7	55.2
1999	457	9.0	17.0	12.9	38.9	7.7	1.5	3.0	0.7	3.2	55.1
2001	589	10.0	15.7	12.2	37.9	8.7	1.2	3.4	0.6	2.3	54.2
2003	497	9.7	15.2	12.0	36.9	9.1	1.3	3.9	0.9	2.4	54.5

Table 18
Percent Of Total Time By Type Of Activity

Year	Respondents	Class Meet	Class Preparation	Other Instruction	Total Instruction	Research/Scholarly	Public Service	Academic Support	Student Support	Institutional Support	Total
1974	315	23.0	29.4	3.6	56.0	9.2	11.3	10.4	4.5	8.6	100.0
1976	369	21.6	31.2	10.0	62.8	13.9	4.0	8.4	6.0	4.0	100.0
1978	403	22.4	31.4	8.7	62.5	15.9	4.1	8.2	3.4	5.9	100.0
1981	421	22.9	31.1	8.7	62.7	15.9	4.1	7.9	3.7	5.7	100.0
1985	419	21.8	29.2	8.8	59.8	17.9	4.6	8.6	3.6	5.5	100.0
1987	437	19.9	28.0	9.4	57.4	19.9	4.1	9.0	3.3	6.3	100.0
1988	452	20.3	26.8	13.2	60.3	17.5	3.5	8.5	3.2	7.0	100.0
1991	467	19.5	33.2	9.2	61.9	17.6	3.3	7.9	2.9	6.3	100.0
1993	483	19.2	34.0	8.8	62.0	18.4	3.3	9.1	1.9	5.2	100.0
1995	493	19.8	33.7	8.6	62.1	18.7	2.8	9.0	2.1	5.3	100.0
1997	495	18.1	27.6	21.2	66.9	17.2	2.6	7.1	1.4	4.8	100.0
1999	457	16.2	30.7	23.2	70.1	14.1	2.7	5.6	1.2	6.4	100.0
2001	589	18.5	29.0	22.5	70.0	16.0	2.3	6.3	1.1	4.3	100.0
2003	497	17.8	27.8	22.1	67.7	16.7	2.5	7.1	1.6	4.4	100.0

Table 19
Percent Of Total Time By Type Of Activity
By College, Fall 2003

College	Respondents	Class Meet	Class Preparation	Other Instruction	Total Instruction	Research/Scholarly	Public Service	Academic Support	Student Support	Institutional Support	Total
Arts & Letters	200	18.8	29.7	20.6	69.1	17.7	1.7	6.0	1.6	3.9	100.0
Business	63	15.6	27.6	21.2	64.3	18.1	2.4	7.8	1.9	5.5	100.0
Education	36	15.6	25.0	26.7	67.3	13.0	4.8	8.2	1.0	5.6	100.0
Science & Mathematics	79	19.1	27.6	21.6	68.3	18.2	1.8	7.2	1.4	3.2	100.0
Integrated Science & Technology	118	17.2	25.6	23.9	66.8	14.7	3.6	8.2	1.9	4.8	100.0
Total	497	17.8	27.8	22.1	67.7	16.7	2.5	7.1	1.6	4.4	100.0

Percent Of Faculty Time By Activity

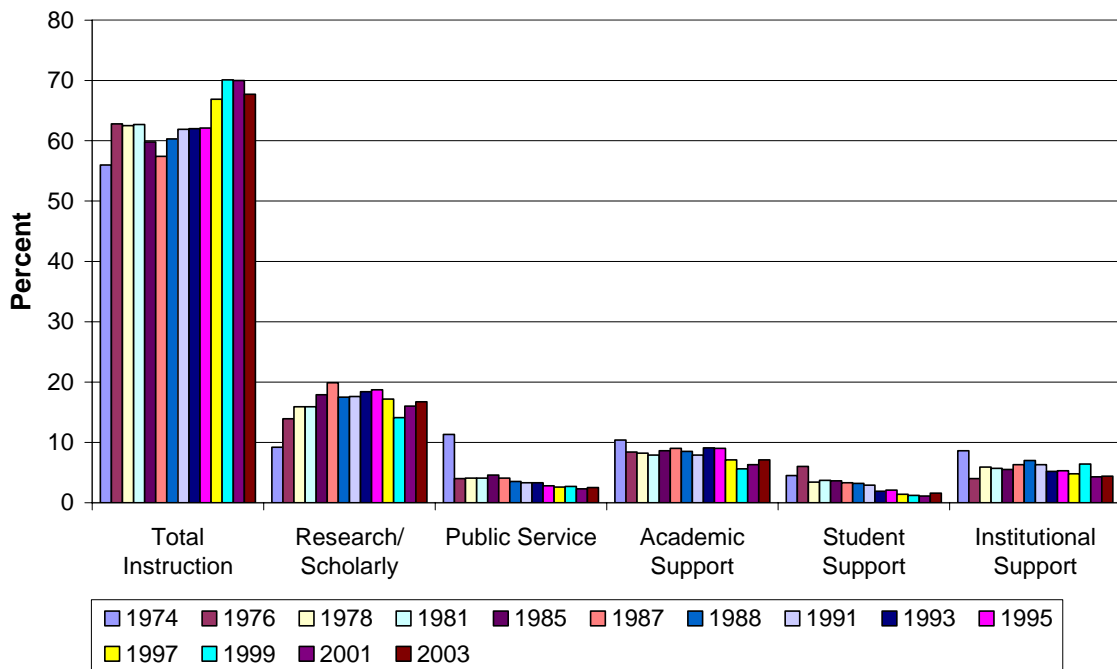


Table 19 displays four measures of faculty resources and use. Each measure is described and analyzed below.

- The “Student-To-Faculty Ratio” is calculated by dividing the full-time equivalent students (15 credits per undergraduate and 12 per graduate student) by the full-time equivalent faculty (FTEF). This is not a measure of average class size. Since 1991 the ratio has varied from a high of 19.2 in 1997 to 16.8 in 2004.
- The “Total Student Credit Hours Per Full-Time Equivalent Faculty” figures represent the total number of credit hours taught divided by the total FTE faculty. This number has varied from a high of 284.8 in 1997 to a low of 250.6 in 2004.
- The “Percent of Total Fall Credit Hours Taught By Full-Time Faculty” seeks to explore the distribution of total effort between full-time and part-time faculty. The percent ranged from a high of 80.9 in 2004 to 77.1 in 1993.
- The “Percent Of Lower Division Student Course Enrollments Taught By Full-Time Faculty” figures are calculated for SCHEV’s Reports of Institutional Effectiveness.” SCHEV is concerned about how the public institutions in Virginia use their faculty to instruct freshmen and sophomores. The analyses are calculated by section and subsection. Individualized instruction is not included. Section is defined as an organized course offered for credit and not a subsection such as a laboratory or discussion session. Sections also include mass sections. For example, a Biology 130 lecture is typically taught by one faculty member, but is listed in the schedule of classes as four sections to assign students to labs. The section analysis combines the lab

sections, counting them as one lecture section. So, the same Biology 130 course has four subsections. The percent for sections ranged from 76.4 to 64.3 (2004). The percent for subsections ranged from 82.9 percent to 65.9 (2004).

The Division of Academic Affairs analyses faculty resource use by department and college. Questions about the relative distribution of resources and use should be directed to Academic Affairs.

Table 20
Measures Of Faculty Resources And Use
Fall 1991 To Fall 2004

Fall	Student-To-Faculty Ratio ²	Total Student Credit Hours Per Full-Time Equivalent Faculty	Percent Of Total Fall Credit Hours Taught By Full-Time Faculty	Percent Of Lower Division Student Course Enrollments Taught By Full-Time Faculty	Regular Session (Fall + Spring) FTE Students
1991	18.9 : 1	281.2	78.5%	Section / Subsection	10,620
1992	18.3 : 1	271.6	79.5%	NA	10,720
1993	18.2 : 1	270.2	77.7%	NA	10,711
1994	18.3 : 1	271.5	77.1%	NA	10,869
1995	18.8 : 1	279.0	79.6%	NA	11,087
1996	19.1 : 1	283.7	79.5%	75.9% / 82.9%	12,119
1997	19.2 : 1	284.8	78.2%	74.3% / 77.5%	12,877
1998	18.8 : 1	279.8	79.6%	76.4% / 75.3%	13,539
1999	18.3 : 1	272.0	79.8%	75.7% / 75.2%	13,697
2000	17.5 : 1	260.3	78.6%	73.7% / 75.2%	13,823
2001	17.5 : 1	263.3	80.1%	75.8% / 70.9%	14,094
2002	17.4 : 1	257.7	80.7%	71.0% / 82.4%	14,496
2003	17.3 : 1	258.3	79.9%	73.0% / 70.8%	14,732
2004	16.8 : 1	250.6	80.9%	64.3% / 65.9%	*14,800

* Estimated June 2005

² Beginning with Fall 1996, Student-To-Faculty Ratios are calculated by the methodology of prior years and will vary slightly from the annual statistical summaries published by the Office of Institutional Research. The revised methodology was adopted by Academic Council to satisfy SCHEV definitions.

Summary

This study of instructional faculty was designed to explore the ways the JMU faculty have changed since 1986 and provide useful information to the university community. As a result of these analyses, several important trends have emerged.

- The number of full-time faculty has grown in proportion to increases in students, but the percentage of faculty with tenure has decreased significantly in the last five years to 48 percent. Since 1997-98 the number of FTE students per full-time faculty has decreased by more than 2.8.
- The percentage of faculty holding the terminal degree increased from 70 percent in 1986 to 81 percent in 2004, but down from 84 percent in 2002.
- The JMU faculty is more diverse than in 1986. Non-Caucasian faculty increased from four percent in 1986 to eight percent in 2004, but down from 10 percent in 2002. Women now constitute 41 percent of faculty, up from 26 percent in 1986.
- The JMU faculty is more likely to have come to JMU in the last five years. Almost half (43 percent) of faculty has five years or less experience at JMU. This compares with 32 percent in 1990. The average number of years experience declined from an average of 11.6 in 1990 to 9.9 in 2004.
- Fifty-seven percent of new tenure-track assistant professors are still employed by JMU after seven years.
- Annual changes in the average JMU faculty salary since 1987-88 has ranged from 10.1 percent in 1989-90 to -1.8 percent in 1992-93. Annual changes in total compensation (salary + fringe benefits) ranged from 10.8 percent in 1989-90 to -4.0 percent in 1991-92. In 2003-04 and 2004-05 compensation increased 1.7% and 4.8%, respectively. In 2004-05 benefits accounted for 31.6 percent of total compensation, up from 27.2 percent in 2002-03. This reflects increasing medical costs borne by the Commonwealth.
- JMU's average faculty salary has increased by 24 percent since 1995-96, compared with 27 percent for its peers. The average salary still is \$6,000 below the stated 60th percentile goal.
- The typical JMU faculty member spends a higher percentage of his or her time in instructional activities than 25 years ago. The average faculty member works 55 hours per week, which has changed little since 1974. However, the typical faculty member devotes nearly 70 percent of his or her total hours to instruction, up from 60 percent in 1986 and 56 percent in 1974.

- The most recent student-to-faculty ratio, 16.8:1 is the lowest in the last ten years, down from 19.2:1 in 1997.

OIR will update this report periodically to provide an ongoing summary of changes in JMU's faculty. Questions about this study can be directed to the JMU Office of Institutional Research at (540) 568-6830 or ASK_OIR@JMU.EDU.