



Spring may be cold this year, according to the chairman of the UMC department of atmospheric science. Wayne Decker explains that "historically, after the coldest winters, Mays have run 4 to 5 degrees cooler."

Olson reviews budget plans

At the April 28 meeting of the Board of Curators' finance committee, President James C. Olson reviewed plans that are developing for the 1978-79 budget that will come before the board for action at its May meeting. The advance planning efforts reflect a budget totaling \$208,525,058, an increase of \$17,711,281 over the present year.

The budget is still in the planning stage since the state appropriation bill, passed by the General Assembly, is pending approval by Gov. Joseph P. Teasdale.

The four-campus UM system budget anticipates state appropriations of \$137,759,672.

Highlights of the budget plan include increased funding for salaries and wages, along with program improvements in libraries, health sciences, agricultural, energy and some selected areas.

"We indeed are grateful for the state appropriations which would allow the University its largest percentage increase in salary and wage base since 1967-68, and at the same time permits us to institute some important program improvements," says Dr. Olson.

Dr. Olson notes that the \$12.2

million in next year's proposed budget for salary and wage improvements represents an increase of about 8.6 percent in the total salary and wage base, as recommended by the General Assembly.

An additional \$1.4 million is available for 1978-79 as a line-item appropriation by the legislature for "faculty quality improvement."

Dr. Olson says the following guidelines as now developed would be used in applying salary and wage increases:

- Merit would be the sole basis for adjusting salaries of teaching and research faculty.

- Merit also would be the basis for salary adjustments for administrative and professional positions, except for those below the minimum to be established by new job classification salary ranges. These ranges would be increased by 7 percent at the bottom step and 15 percent at the top step to better reflect market conditions.

- A combination of market and merit would be used for salary adjustments for administrative, service and support staff assigned to a salary matrix. A market adjustment of 5 percent or \$450 a year would be made, whichever is greater. Merit would be the basis for other adjustments.

- The amount of increases for service and support staff assigned to the four-step matrix would be announced later, following

(continued on page 4)

Curators take action on diverse items

The Board of Curators approved emeritus titles for four UMKC professors at an April 28 meeting in Rolla.

Recipients and effective dates of titles include Richard S. Hudson, professor emeritus of law, Sept. 1, 1976; Carl S. Matthews, clinical associate professor emeritus of dentistry, Sept. 1, 1976; Edward P. Nelson, clinical professor emeritus of dentistry, Sept. 1, 1976 and Priscilla Tyler, professor emerita of education, Sept. 1, 1978.

In other business, the curators took the following actions:

- Rejected plans for a metal addition to a UMC athletic dressing room building in favor of conventional construction and a later completion date.

- Approved arrangements for a new football scoreboard for UMC's Memorial Stadium, with installation to be completed before the 1978 home season, providing all financial conditions are met. The new scoreboard, which will replace the present one at the stadium's north end, will have moving electric message capability and advertising on each end.

- Approved granting of right-of-way to the Missouri State Highway Commission to allow improvements to be made at the intersection of Providence Road and Stadium Boulevard in Columbia.

- Approved a \$2.50 per semester increase in the student activities fee at UMSL. The increase from \$24.50 to \$27 for fulltime students will go into effect next fall.

- Approved lease agreements totaling \$53,280 for facilities to house

161 students for 10 months at UMR. Also, approved the appointment of a St. Louis architectural firm to design the remodeling of the Nagogami Terrace married students apartments at UMR. Estimated cost of the project is \$179,716.

- Gave tentative approval to the employment of a St. Louis engineering company to design plans for improvements to both the UMR and UMC heating plants. Employment is pending approval by Gov. Joseph P. Teasdale of the state capital improvements bill passed by the General Assembly. The legislature has appropriated \$5 million in planning and funds for the UMR plant and \$260,000 in planning funds for the UMC plant to bring both into compliance with clean air standards.

- Awarded a \$132,852 contract to a Kansas City firm to build about 270 parking spaces at UMKC; awarded a \$232,535 contract to a St. Louis firm for repair of three UMSL parking structures; approved replacement of the wood floor in UMKC's Pierson Hall; approved final plans for roofing the UMKC Chemistry-Biology Building; employed a Columbia architectural firm to prepare plans for repairing the cooling tower and roof at the UMC heating plant, and employed a Kansas City architectural firm to plan the renovation of part of UMC's Connaway Hall.

In other business, the finance committee discussed UM investments which have holdings in South Africa. The committee decided to take no action, but continue to study and review the question.

UMSL gains new department

UMSL will establish a department of speech with the beginning of the 1978-79 academic year under authorization granted by the Board of Curators April 28.

The new department will consist of courses and faculty that currently exist as part of the UMSL English department. Denny L. Bettisworth, assistant professor of speech, will chair the department.

The move was "necessary to diversify our offerings to meet the needs of more students," according to Robert S. Bader, dean of the UMSL College of Arts and Sciences.

The study of speech and communications has been a strong growth area at UMSL since the A.B. degree in speech was launched in 1975 according to Dr. Bader. Since then, the number of declared speech majors has exceeded projections by a considerable margin. Fall 1977 figures showed 180 speech majors and more than 600 students enrolled in speech courses. The speech faculty consists of seven full-time and 13 part-time members.

The only expense associated with the change will be a routine reduction in Dr. Bettisworth's teaching load to allow time for administrative duties.

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Faculty honored

Three faculty members have been selected to receive major awards.

Arthur Berndtson, UMC professor of philosophy, has been chosen to receive the \$1,200 Byler Distinguished Professor Award for 1978. The award will be presented May 13 at the chancellor's commencement luncheon on the Columbia campus.

Daniel U. Levine, UMKC professor of education, recently received the 1978 N. T. Veatch Award for distinguished research and creative activity. The \$1,000 award is presented annually to an outstanding UMKC member.

Robert S. Campbell, UMC professor of forestry, fisheries and wildlife, will receive the \$1,000 distinguished faculty award May 13 at the UMC chancellor's commencement luncheon.

Dr. Berndtson, who has been on the faculty since 1945, has just completed "Power, Form, and Mind," a research book in metaphysics. The author of *Art, Expression and Beauty*, Dr. Berndtson has published 24 philosophical articles and 27 book reviews. The Byler award was established through a gift of William H. Byler, a UMC alumnus and retired senior vice president for research at U.S. Radium Corporation. Selection is by a five-member committee with approval of the chancellor.

Dr. Levine is the author, co-author



or editor of eight books. He has been on the faculty for 14 years and has a national reputation as a researcher on achievement and social class in big city schools. The Veatch award was established on the Kansas City campus by the late N. T. Veatch, a managing partner of the engineering firm of Black & Veatch.

Dr. Campbell is a graduate of Saskatchewan and Michigan universities. His research interests include water pollution and strip-mine lakes. The annual distinguished faculty award is made by the UMC Alumni Association following selection of a recipient by an alumni committee and approval of the chancellor.

Extension recommendations

The UM Advisory Council for Extension, a citizens' advisory group to President James C. Olson, recommends that several committees be formed to re-evaluate extension programs as suggested in a recent report prepared by the Governor's Extension Study Commission.

Gov. Joseph P. Teasdale appointed the commission last summer to review the extension programs of all state colleges and universities.

Most of the commission's report is aimed at UM Extension. Public hearings were conducted in seven cities last fall. Even though considerable support was shown for current programs, the commission recommended that UM re-evaluate community development, home economics and youth programs, and review the extension administrative structure.

"Surprisingly little duplication among the colleges and universities was noted," the commission report said. "It was much less than the commission initially thought."

The president's state advisory council recommends the

establishment of internal review committees—with representation from the state and county councils—for most program categories. However, the state group suggests that an independent professional firm be hired to study the administrative structure.

Lowell Mohler of Jefferson City, a member of both the commission and President Olson's state council, said the commission defines "extension administration" as "everybody but field staff," meaning faculty and staff on campus and in central administration.

The council also recommends that President Olson name a committee to study changes in the 1961 state law that established UM Extension councils in each county. The advisory group felt that if county council elections coincide with other elections, instead of being conducted separately as they now are, it may broaden representation and increase interest in UM programs. Also, the state law does not identify the current involvement of Lincoln University in statewide cooperative extension.

Degree recipients named

Four individuals will receive honorary degrees this month from the campuses of the UM system.

Jack W. Peltason, president of the American Council on Education, will receive an honorary doctor of laws from UMC. A native of St. Louis and a graduate of UMC, Dr. Peltason is a former chancellor of the University of Illinois.

Henry Aaron Hill, president of the Riverside Research Laboratories and immediate past president of the American Chemical Society, will be awarded an honorary doctor of engineering from UMR. A native of St. Joseph, Mo., Dr. Hill was the first black president of the 102-year-old American Chemical Society.

Leon H. Keyserling, an economist, will receive an honorary doctor of

humane letters from UMKC. Dr. Keyserling served as vice chairman of the President's Council of Economic Advisers during the Truman administration.

St. Louis scientist Donald P. Ames will be awarded an honorary doctor of laws from UMSL. Dr. Ames is the staff vice president of McDonnell Douglas Research Laboratories.

Commencement exercises at the four campuses are scheduled as follows: UMC, 11 a.m., May 13, Hearn Multipurpose Bldg.; UMR, 2 p.m., May 14, Gale Bullman Multipurpose Bldg.; UMSL, 3 p.m., May 14, Mark Twain Bldg. and UMKC, 3 p.m. (graduate ceremony) and 8 p.m. (undergraduate ceremony), May 13, R.L.D.S. Auditorium in Independence.

This & That

NASULGC director resigns

Ralph K. Huit has resigned as executive director of the National Association of State Universities and Land-Grant Colleges, effective September 1978. He will return to teaching political science at the University of Wisconsin.

Dr. Huit has served as the association's executive director since 1970. NASULGC, the oldest association of higher education in the U.S., serves 141 member institutions including UMR.

A recently-appointed search committee includes Barbara S. Uehling, UMC's chancellor-designate.

UMR building dedications

Two buildings were dedicated recently on the Rolla campus.

The civil engineering building was renamed the Butler-Carlton Civil Engineering Hall in honor of the late Joe Beaty Butler and Ernest Wilson Carlton. Both men were former department chairmen.

The building housing the Graduate Center for Materials Research was dedicated to the late Martin E. Straumanis.

Program aids lawyers

The UMC Development Fund has given \$9,000 to the School of Law for a program connecting UMC with a computer data bank containing the equivalent of 40,000 law books.

The Lexis program, which is used by many large law firms, enables users to obtain information in minutes which

would require two or more days of research.

The program will be available to law students and faculty at a reduced rate on a 22-hour daily basis.

Gift of solar collector

UMKC has obtained its first experimental solar energy collector. The instrument was a gift from Black & Veatch Consulting Engineers.

The collector, which will be installed in an engineering laboratory on the Truman campus, will be used for research and the instruction of engineering students, according to Donald R. Smith, director of the UMC/UMKC coordinated engineering programs.

UM ranks high in survey

UM ranks 10th among institutions with the largest first-professional enrollments, according to a survey by the National Association of State Universities and Land Grant Colleges.

The NASULGC survey showed that as of fall 1977 UM had 2,540 first-professional students.

Budget hearing scheduled

The never-ending budget process at UM is a three-prong situation: (1) The 1977-78 budget closes out at midnight, June 30; (2) another budget (1978-79) begins July 1, and (3) planning already is well underway on the 1979-80 appropriations request.

To provide more input on the part of the faculty, staff and students, public hearings on the proposed 1979-80 appropriations request are being held this year. Similar sessions were held on all four campuses in April. The UM system four-campus hearing will be held Tuesday, June 13, in Columbia.

The purpose of the consolidated four-campus hearing (as in the case of the separate campus hearings) is to provide a forum for expression of concerns and constructive suggestions. At the hearing, UM central administration staff will present the first draft of a proposed consolidated appropriations request for operations and capital items in priority order. The staff also will indicate a proposed method of funding the request.

Following the hearing, the draft may be revised before being sent to the

Board of Curators in late summer. The board, in turn, must submit UM's formal 1979-80 request to the Coordinating Board for Higher Education no later than Oct. 1.

Doctoral Council reports actions

At an April meeting the UM Doctoral Council approved the reappointment procedures for membership on the Doctoral Faculty submitted by UMKC and UMC representatives. UMR and UMSL have not yet submitted proposals.

The Doctoral Faculty consists of faculty members who are eligible to direct doctoral dissertations on each of the campuses. The reappointment procedures are determined at the campus level, with the approval of the Doctoral Council.

The Doctoral Council also has begun a study of the means of assessing quality in doctoral education. The council will advise President Olson on this topic.

Exercise throws off body counter's count

By Joseph J. Marks

Sometimes joggers can be a nuisance. Just ask any motorist, golfer or dog.

And now, it seems, joggers have shook up one of UMC's most respected research tools: the Whole Body Counter.

The counter has measured the percent fat (really the percent lean) of hundreds of UMC faculty members. The machine measures potassium-40, the natural gamma radiation emitted from the body because of an intake of potassium-containing food and drink. Potassium-40 concentrates in the non-fat part of the body, and is an indication of leanness and good health.

But joggers have found that they can mess up the Whole Body Counter by running a few miles just before going in for a count. The credit goes to Ben Londeree, UMC exercise physiologist, and his fellow runners for proving that "prolonged exercise increases the potassium-40 count, producing errors in calculating lean body mass and percent fat."

"Other researchers have shown that prolonged exercise causes some potassium to escape from the cells into the blood," Dr. Londeree explains. "Also, exercise brings more blood close to the skin surface. As a result, you have more potassium near the skin surface—more near the counting instrument."

Dr. Londeree concludes that potassium-40 determination should be made at least four hours, probably longer, after prolonged exercise.

Londeree and two of his jogging friends went to extremes to show how the Whole Body Counter could be affected by exercise. They ran from three to 15 miles before going through

the counter. They also sat in steam rooms and consumed a variety of foods and beverages, including some high in potassium, to see if that affected the counter.

"Only exercising made any difference in the counts," says Dr. Londeree. "One individual's percent fat as determined by the counter ranged from over 15 percent before exercise to a minus 3.8 percent after exercise." His findings have been communicated to other users of UMC's Whole Body Counter and similar units around the country.

Two of the faculty members most interested in the findings were Ellis Graham, who built the counter in 1962, and Margaret Flynn, who has used the machine with hundreds of faculty members as part of her long-range cardiac risk study.

Drs. Graham and Flynn say the findings could be useful to doctors and researchers studying potassium levels in active people if the findings were carefully substantiated with blood studies along with the "counts."

Dr. Graham notes that the Whole Body Counter is still considered the best in the country and is "better than anything else" for determining potassium levels and lean body mass in individuals. The machine is accurate to within plus or minus 3-4 percent.

"We've used counter data to establish norms for potassium and lean body mass, then checked the figures with others across the country," Dr. Flynn says. "Persons who were counted here and at the Los Alamos counter on the following day had almost identical results."

"Physicians use the counter to detect people who are low in potassium. For example, a low total body potassium will show up on the



Wayne Shannon, a research specialist in animal husbandry, operates the UMC Whole Body Counter.

Whole Body Counter even though low potassium didn't show up in a blood serum test."

One of the main advantages of the counter, as far as Dr. Flynn is concerned, is its psychological affect on those who go through it.

"Many have gone on diets and begun exercise activities because the Whole Body Counter assessed them to have too much fat relative to lean,"

says Dr. Flynn. "If an individual's fat content appears high, we just advise him or her that lowering the percentage may improve chances of a longer, healthier life. We simply tell them dieting alone is not enough because they lose lean along with fat. They need to exercise, too."

- Joseph J. Marks is the science news director in the UMC Ag Editor's Office.

Appeals process nears completion

Approximately 70 percent of the appeals filed by UM employees after implementation of the administrative-professional job classification study have been reviewed, according to William D. Poore, director of UM system personnel services.

"The process, although very time consuming, is moving well, and we expect to have work on all the appeals completed by June 1," Mr. Poore says.

He explains that completion by that date is important because the project needs to be finished before development of the 1978-79 budget.

The initial study, conducted by Robert H. Hayes and Associates, included the review of approximately 1,450 administrative-professional positions on the four campuses and within central administration. The purpose was to develop job classifications with appropriate titles and salary ranges throughout the UM system and to identify career paths.

The study was implemented last September. Employees or their supervisors were allowed to file appeals between Sept. 1 and Nov. 30.

"We had appeals filed in 331 job classifications representing 480 people," Mr. Poore says.

Approximately 55 percent of the appeals have been resolved by the campus personnel offices, the first step in the appeals process.

If the case is not resolved there, the employee may appeal to the campus or central administration appeals committees, groups appointed by the chancellors at the campus level and the UM president at the central administration level.

If the decision of the committee is not acceptable to an employee or supervisor, the appeal can be directed to a UM system committee, the group having final jurisdiction.

When resolution of a case is reached on the campus, the case is forwarded to UM system personnel services for a comparison of similar actions taken on other UM campuses in an effort to maintain consistency in responses.

Approximately 60 appeals are now in the process of final review. So far, 23 cases have gone the entire appeals route to the system committee and seven decisions have been implemented.

The number of classification appeals received by campus include: Columbia, 157; Kansas City, 83; Rolla, 32; St. Louis, 33, and central administration, 26.

Mr. Poore says that the appeals process has been valuable in helping to pinpoint and correct deficiencies on the basis of job descriptions gathered in 1975.

"We are confident that when the entire process is completed, we will have a classification tool that will be useful in bringing strength and equity to our professional and middle management personnel program," Mr. Poore comments.

Mr. Poore explains that the program will undergo continuing review to keep it up to date. In fact, a task force representing all campuses and the central administration now is at work to determine what changes, if any, should be recommended.

While the current appeals project has dealt only with cases filed as a result of the implementation of the study, Mr. Poore says there will be a mechanism for reclassification and changes in pay grade assignment based upon changes in duties and responsibilities.

Mr. Poore says salary adjustments, if required as a result of the appeal, will be retroactive to the date of implementation, Sept. 1, 1977. The appeal process to date has cost approximately \$60,000.

Legislature OKs capital funds

Capital improvement funds totaling \$11,506,761 have been approved by the General Assembly for the UM system for the 1978-79 fiscal year.

The appropriations bills containing the capital funds now are awaiting final action by Gov. Joseph P. Teasdale.

Items funded by the legislature are:

- **Physical Plant Repair and Improvements:** Columbia, \$1,189,851; Kansas City, \$267,716; Rolla, \$386,702; St. Louis, \$148,731.

- **Heating Plant Improvements (UMR):** \$5,000,000

- **Engineering Building Renovation (UMC):** \$1,871,500.

- **Agricultural Experiment Station (UMC):** \$300,000

- **Parking Facilities, Hospital Hill (UMKC):** \$10,000 (planning funds only).

- **Addition to Animal Sciences Building (UMC):** \$155,261 (planning funds only).

- **Heating Plant Improvements (UMC):** \$260,000 (planning funds only).

- **UMC Hospital:** \$1,917,000. This includes \$342,000 for repair and improvements, \$475,000 for an emergency generator and \$1,100,000 for patient care renovation.

Curator resigns

Van O. Williams has resigned from the UM Board of Curators, effective June 1. In a letter to Gov. Joseph P. Teasdale, Mr. Williams said he was resigning to avoid a possible conflict of interest since his son will begin his residency this summer at the UMC Medical Center.

Mr. Williams, who is president of The First National Bank in North Kansas City, has served on the board since 1973. He is immediate past president of the board.

A graduate of William Jewell College, Mr. Williams also serves on the boards of the Philharmonic Association of Kansas City, the American Royal Association and the Northland Meals on Wheels.



Van O. Williams

Responsibility for appointing a successor for Mr. Williams rests with the governor.

Proposed budget guidelines

(continued from page 1)
establishment of wage rates.

- Proportionate funds (i.e., about 8.6 percent) for students and selected teaching and research staff would be available for salary and wage adjustments. Student wage rates would be determined later.

Dr. Olson emphasized that the increase in the salary and wage base in each employee category would be about 8.6 percent. This does not include the \$1.4 million in "faculty quality improvement" funds.

UM's general educational budget of \$208,525, 058 would be financed with \$137,759,672 in state appropriations and \$70,765,386 in other than state funds such as student fees, sales and certain other income.

The plan also reflects \$4,783,000 in reallocations from the 1977-78 budget and an estimated \$4,467,000 in additional student fee income from a student fee increase going into effect this summer and fall.

Program improvements and the amount of funds budgeted for them next year would include:

- \$1,002,506 for improving library resources on all four campuses.

- \$1,801,000 for health science improvements, including \$501,000 in Columbia and \$1,300,000 at Kansas City.

- \$300,000 for energy and mineral engineering development at Rolla.

- \$509,000 for improving agricultural programs at Columbia.

- \$675,000 to improve academic programs and services at St. Louis.

- \$1,600,000 for special instruction and research equipment.

- \$90,000 for increased UMKC law school enrollment.

- \$283,000 for the cost of opening and operating UMC's new nursing school building and a journalism school building addition, and the new law school building and performing arts center at UMKC.

Also included in the UM proposed budget increase is \$2,387,174 as an inflationary adjustment in the costs of expense and equipment.

In addition, the president reviewed plans for a general operating budget of \$37,321,133 for the UMC hospital, an increase of \$2,942,928 over the current year.

The hospital budget would consist of \$11,135,412 in state appropriations and \$26,185,721 in other than state funds. Program improvements at the hospital would include \$248,000 for nursing services, \$81,000 for upgrading radiology and laboratory areas, and \$124,000 for improved physical plant operations.

Also being developed are plans for units for which the Board of Curators has fiscal and administrative responsibility: Missouri Institute of Psychiatry, \$1,774,804, an increase of \$129,749; Missouri Kidney Program, \$2,146,280, an increase of \$263,680; and the State Historical Society of Missouri, \$361,470, an increase of \$35,121.

Not included in the proposed general operating budget are such sponsored programs as research and training grants and contracts, scholarships and fellowships and income from auxiliary enterprises such as dormitories, bookstores, student unions and some other activities.

Court rejects UM's petition

On April 17 the U.S. Supreme Court denied UM's petition for a rehearing of the Gay Liberation case.

The Board of Curators had voted to ask the court to reconsider its decision not to hear the case. UM was appealing an appeals court decision that UM must give official sanction to student homosexual groups.

People

Charles E. Mengel, chairman of the UMC department of medicine, has been appointed to the board of editors of the *Journal of Laboratory and Clinical Medicine*, an official publication of the Central Society for Clinical Research. Dr. Mengel also has been invited to serve on the board of the *Annals of Internal Medicine*, the official journal of the American College of Physicians.

Herbert W. Schooling, UMC chancellor, and William C. Bunge, UMC assistant professor of health and physical education, recently received citations of merit for distinguished service in education from the UMC College of Education.

Gary Hennigh, UMC associate professor of housing and interior design, has been named outstanding teacher in the College of Home Economics. The distinction is determined by secret student ballot.

James W. Joiner, UMR associate professor of mathematics, has been named UMR's "Adviser of the Year." Dr. Joiner was nominated for the award by members of the Venezuelan Student Association.

Gordon E. Misner, UMSL professor of administration of justice, has been appointed to the Law Enforcement Assistance Administration's task force on minority research priorities.

Arnold B. Grobman, chancellor of UMSL, has been appointed chairperson of the urban affairs committee of the National Association of State Universities and Land-Grant Colleges. Dr. Grobman also has been appointed to a three-year term on the urban

affairs committee of the American Association of State Colleges and Universities.

Albert Kalmar, UMSL assistant professor of German, has been reappointed as tableleader of the Advanced Placement Test evaluation committee for German by the College Examination Board. He also will serve on the advanced placement test writing committee.

Weldon Springs discussed

The Board of Curators received a status report from the UM administration on the Weldon Springs property at the April 28 meeting in Rolla.

At the March board meeting, the curators gave President James C. Olson the authorization to reopen negotiations with the Missouri Department of Conservation on the possible sale of the 8,000 acre tract in St. Charles County.

Negotiations will be continued and a decision on the matter will be made later by the board.

Professors win teaching awards

Five UMC faculty members recently were selected for awards recognizing excellence in teaching.

Charlotte Wells, director of the UMC speech and hearing clinic, will receive the \$1,000 Alumnae Anniversary Award during commencement exercises—May 13. The award is presented annually for teaching excellence and outstanding contributions to the education of women.

Recipients of the \$500 AMOCO superior teaching awards are William M. Busch, assistant professor of physical education; Carolyn Jarvis, assistant professor of nursing; David E. Wollersheim, associate professor of mechanical and aerospace engineering and William M. Jones, professor of English.

Winners of the AMOCO awards will be honored at the chancellor's luncheon on May 13.

CBHE approves MFA degree

The Coordinating Board for Higher Education approved the establishment of a master of fine arts degree program on the Columbia campus at its April meeting.

The degree program, approved by the UM Board of Curators in September, replaces the current master of arts degree. The M.F.A., which is considered a terminal degree in the graphic arts area, will require a total of 60 credit hours as compared with the 40 hours now specified for the master of arts.

The change to a M.F.A. degree will involve greater emphasis in studio art courses, but will not require an increase in faculty members.

Jobs

The following administrative, professional and academic vacancies were listed with *Spectrum* as of April 26, 1978:

UMR: Assistant professors, civil engineering (hydrology, hydraulics & water resources); life sciences, clinical psychology, humanities (composition); associate director of development; graduate intern; scientific programmer analyst II;

UMKC: Faculty, graduate nursing (pediatrics/maternal-child health and adult nursing); administrative associate II; information specialist; research specialist; sr. computer programmer analyst;

UMSL: Academic advisor; announcer; facilities analyst; graphic designer; sr. personnel associate;

UMC Med Center: Administrative associate II; head nurse (3); medical records administrator; nurse anesthetist; nurse practitioner (2); computer programmer analyst; reg. medical tech.; research specialist; staff nurse (21); supervisor, nursing unit;

UMC: Auditor; customer service rep.; food service supervisor II; health physicist; radio music director; reactor mgr.; reactor physicist; sr. information specialist (2); sr. methods & procedures analyst; sr. personnel associate; sr. research scientist; sr. systems programmer; supervisor, instructional materials center; supervisor, TV engineer-KOMU; assistant professor, computer sciences.

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