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Kansas 4-H Journal

January 1980









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Kansas 4-H

#### Journal

Vol. XXVI, No. 1

January 1980

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You can make decision-n easy as 1,2,3	0
Kansas offers many choic for training	
Look at engineering techna career with a future.	
Kansas Two-Year College	s16
Doctor, lawyer, merchant	, parent 17
Dental assisting	20
Kansas Four-Year Colleg	ges22
Count on Accounting	25
Journalism	27
Picture yourself as a commercial artist	29
Computer occupations	32

Glenna Wilson......Editor
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# College is not grade 13

By De McGlashon Assistant Extension Editor, Quality of Living

"Being a senior still doesn't make me feel like this is my last year in high school," Kelly said as she sat at the dining room table trying to decide which of her senior picture proofs to choose for the family album and for friends and relatives. Already in the album were pictures of her older sister and brother, both of whom could hardly wait for the stirring strains of Pomp and Circumstance to usher them from the hallowed halls to what they considered to be the big world beyond.

Not Kelly. So involved was she with what happened each day, she barely had time to decide what clothes to wear the next. Decisions about what college to choose or a major to select or a career to consider were as difficult as "trying to make up my mind about these pictures," she said.

After all, how could anyone think about college classes when there were high school projects and outside activities — like the school play to work on, student council meetings to attend, basketball practice on every night there was no basketball game, and 4-H club days to prepare for.

At times like these, decisions about college seemed far away and at times just a downright nuisance.

Occasionally something came along, like selecting senior pictures, which made her aware that college and career choices were at hand. She had talked to her school's counselor, filled out forms for the ACT test and attended career days in which various state college and universities offered literature and answered questions about their facilities.

But even these experiences didn't seem to help much. They just produced more questions.

"How can I start college when I don't know what I want to be?" she asked. "I don't know if I'm good enough in math to be an engineer. And I like animals, but can I handle all the science needed to be a veterinarian. I think I'd like animal science, but what kind of job would I have when I graduated? Will I have time to go out for sports in college?"

Kelly's end-of-school blues is probably not uncommon for many high school seniors who are discovering that college is not grade 13.

Kelly was facing many questions that made her realize that as the high school doors closed behind her, her school "daze" was over and decisions about her future were ones only she could make. As her mother I could lend advice and support, her school counselor could show her opportunities at various institutions, and college oriented programs could introduce her to new horizons, but in the end, the decision had to be hers alone.

"I think I'll get this picture," she said, holding up one from the group. "What do you think?"

"That looks like a good choice. In fact, it's my favorite too."

Then she smiled. "I wish deciding about college were as easy as picking out the best picture."

"Maybe it will be in time," I told her. "It's your decision."

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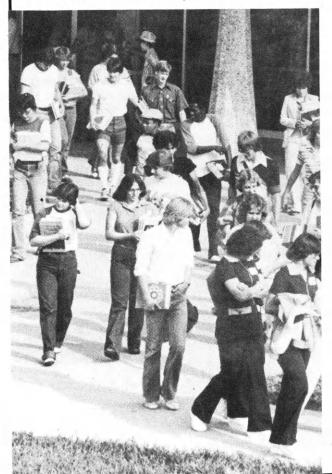
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# You can make decision-making as easy as 1,2,3

By Marilyn Bauer Counselor-Educator Manhattan

You make decisions every day. Most of them are easy to decide. "Do I get up? Or do I stay in bed?" "Do I eat breakfast? Or do I

skip it?"

Making decisions gets hard when one of your choices is something you can't picture yourself doing: "I'm supposed to make a speech, but there's no way I'll make a good one. I'll just look dumb."

The choices you have for decision-making in a case such as that usually run something like this:

"I may look dumb, but I'll have to try. It's expected of me," or
"I refuse to look dumb. I'll take an 'F."

Tirrough with Some Confident

The trouble is, most of us really don't like to think of ourselves as people who won't try or as people who are failures. So we complicate things when we really don't want to pick a choice that makes us feel uncomfortable. In this case you might avoid both extremes by creating a third way to go: putting off the speech until the last minute so you can say, "I just didn't have time, so

that bad grade doesn't really reflect on me.'

To make decisions more honestly and easily you need to spend some time figuring out who you think you are. Try writing down all the adjectives that really describe you; then pick the five main ones. Are you serious, careless, funny, honest, and cheerful? Are you dependable, nervous, intense, cheerful, and silly?

Go through your list of five again. This time decide whether some people don't think one or more of the adjectives describe you, even though you know they do. Beside the adjective, write the name of the person who wouldn't agree that it describes you. For example, if you're dependable, but your dad thinks your dependability is a joke, your list should read "dependable (Dad)." If you think you're serious, but your friend Mary thinks you're happygo-lucky, write "Serious (Mary)."

Armed with this list, you'll then be able to meet your next decision face-to-face. You'll be able to answer these decision-making questions:

- 1. What are my choices?
- 2. Knowing the person I am, which choice fits me?
- 3. Is that the same choice I'd like to make?

4. Is that the choice other people think fits me?

If you make all your decisions on No. 4 — what everybody else thinks you ought to do — you're probably going to end up angrier and angrier, because other people will be making the decisions, but you'll be living with the results. ("I made that stupid speech 'cause I knew Mother would think I should. She thinks if you try hard enough, you can do anything. I feel like a fool.")

The decisions you'll be happy about will come from No. 2 and No. 3. You should combine what you really want to do with what you're able to do. ("What I want is not to look like a fool and not to fail. I'm good at writing my thoughts down. I'm also pretty good at sticking to jobs. Maybe if I practice enough on my parents and Mary, I could say my thoughts out loud, too.")

If you think you're using Nos. 2 and 3 to make your decisions, but you're still not comfortable, ask yourself, why? Could someone else still be influencing you? Could you have missed on your list of your adjectives? ("I put 'serious." But really I'm shy.")

(Continued on page 6)



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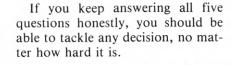
Banking that gives you the First Advantage

#### (Continued from page 5)

If you're not able to see why, talk to your parents about your decisionmaking problem. If that doesn't work, try your school counselor, a favorite teacher or a good adult friend, such as your 4-H leader. Answering this question could take time, but it's important,

If you find decision-making getting easier, you'll probably get to the point you can throw your list away. But you'll still need to follow these steps:

- 1. What are my alternatives?
- 2. Which choice fits me?
- 3. Which choice would I like best?
- 4. If I like a choice that doesn't fit me, can I develop what I need to pick the choice I like? (If you're not at all sure about your ability, you could talk to someone who's successfully doing what you want to do.) Otherwise, what's my choice?
- 5. Is this something I want to do, not something that my friends or parents or classmates think I ought to do?



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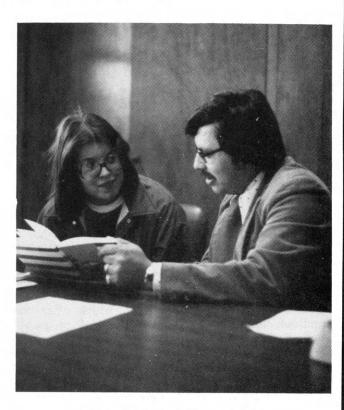
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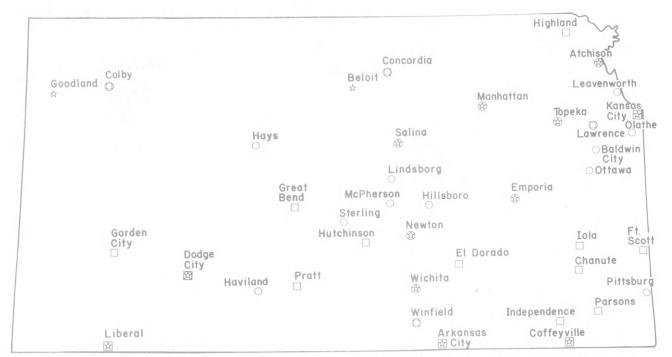
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O KANSAS COLLEGES AND UNIVERSITIES

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# Kansas offers many choices for training:

# Technical schools— Two-year colleges— Four-year universities— Private schools—

By Dorothy G. Groesbeck Chairman Kansas State Board of Education

Decision-making in regard to a career or occupation is of crucial importance to high school students. Sound decisions depend on good information — and lots of it!

School counselors have a great deal of career information, and students should ask for it and use it in their decision making. Attendance at "career days" and similar activities will help students determine what occupation will be satisfying and appropriate for them.

After setting a career goal, the next step in achieving that goal is to explore the educational opportunities offered in the postsecondary institutions and then make a decision as to which institution best fills

one's needs. Depending on the career choice, students graduating from high school have many options for further education at both public and private institutions throughout the state.

#### **Community Colleges**

Kansas has nineteen community junior colleges, geographically dispersed throughout the state, which offer one or two-year terminal programs, associate degree programs, and two-year preparatory programs transferable to a four-year institution. Community junior colleges essentially serve their own districts and surrounding service area.

Five two-year church related colleges, mainly in the eastern and central areas of the state, offer programs in varied disciplines.

#### **Technical Schools**

The primary mission of the fourteen area vocational-technical schools is to prepare people for specific occupations and to upgrade the skills of those presently employed. They are two-year institutions and offer many one and two-year programs leading to employment in the various trades, health-related occupations and so on.

Kansas Technical Institute is also a two-year school offering programs in engineering technologies.

Many private business, trade, technical, and vocational schools are licensed to do business in Kansas. Most concentrate their training programs in one field.

For those career goals requiring a college degree, the system of six state universities offers a wide diversity of programs leading to baccalaureate, master, and doctoral degrees in such areas as liberal arts and sciences, teacher education, agriculture, and the traditional professions.

Sixteen four-year private colleges, mostly church-related, offer degree programs in such fields as liberal arts and sciences and teacher training.

# Decide which is right for you!

Washburn University, the only municipal university, offers degree programs in liberal arts and sciences, business, law.

The postsecondary institutions provide counseling and placement aid. Financial aid is available through the state tuition grant program for private Kansas colleges as well as the state scholarship program. The tuition grant program currently provides \$3.8 million in student aid to more than 3,600 students enrolled in the eligible private colleges. The state scholarship program (partially supported with federal funding) provides about one million dollars to approximately 1,200 Kansas scholars who have financial need. During the current fiscal year, eligible students may receive up to \$1,200 under the tuition grant program and up to \$500 under the state scholarship program.

The state also pays 90 percent of the tuition for postsecondary students at the area vocationaltechnical schools.

Many other types of aids, awards, and grants are available to students to enable them to achieve their educational goals.

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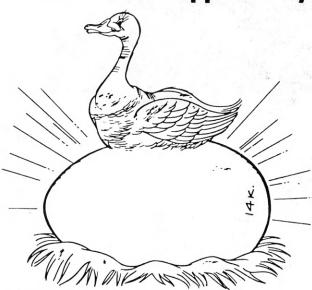
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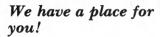
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## Look at engineering technology—a career with a future



Paula Brungardt, a Civil Engineering Technology Student, gets practical experience with surveying instruments in an outdoor lab.

By Elaine Mills
Assistant
Dean of Public Affairs
Kansas Technical Institute
Salina

As we enter the new decade of the 1980's and look ahead to the decades beyond, what new wonders of modern technology do we expect from our scientists and engineers?

The range of our expectations extends from interplanetary travel to the solutions to problems of environment, energy needs, and standards of living. These expectations have brought about a growing need for a new middleman — the engineering technician.

There was a time in our history, about 100 years ago, when our body of scientific knowledge was small enough that the scientist or engineer could give his design directly to the craftsman to assemble a model and test a new idea. With the technological advances we have achieved in the last century, however, the scientist-engineer and craftsman

have each become more specialized. Direct communication between the two have become more and more difficult because the engineer deals with the theory of why things work, and the craftsman deals with the practical applications of how things work.

That's where the engineering technician comes in. The technician is trained in both theory and practical application, and serves as the interpreter between the two.

In order to learn more about the field of engineering technology, let's look at the following questions:

- Who can become an engineering technician?
- What does an engineering technician do?
- Where can I get the training to become an engineering technician?
- When will my training be complete?
- Why should I choose engineering technology?
- How much will training cost?

First of all, anyone with an aptitude for science and math has the potential for becoming an engineering technician. Both men and women are needed in the field. High school preparation for engineering technology should include physical sciences, as much math as you can get, and perhaps a mechanical drawing class. In addition, communications classes will be helpful in learning to get your ideas across to others.

Most employers prefer applicants who have had some specialized training for technician jobs. It is possible to combine work experience and education to qualify for a position as an engineering technician. But for advancement to

increased responsibility, and to the increased salary that goes with the responsibility, postsecondary training is becoming more and more necessary.

For information on just what an engineering technician does, there is a very handy book, probably available in your school library or in the counselor's office. It's called the *Occupational Outlook Handbook*, and it is published by the U.S. Government Printing Office. Prepared by the Bureau of Labor Statistics, this handbook is full of information about most any career you can think of.

According to the Occupational Outlook Handbook, research and development is one of the largest areas of employment for technicians. Engineering technicians set up and calculate the results of experiments using complex instruments. They assist in developing working models, make drawings and sketches, and help with design work.

In production of a new product, the engineering technician may prepare specifications for materials, devise tests to insure product quality, or come up with ways to improve efficiency. The technician must often supervise craftsmen to be sure the specifications are followed, and communicate with the engineer on the progress of the product.

As sales persons or field representatives for manufacturers, technicians may give advice on installation and maintenance of complex equipment. They might also be involved in writing specifications or translating technical information into common terms.

(Continued on page 14)

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#### Engineering technology (Continued from page 13)



Computer Engineering Technology students learn several computer languages in order to be able to "talk" to the computer.

In order to fit yourself into one of these job descriptions, you're probbably going to need at least two years of full-time college-level study. Such study programs are available in a variety of educational institutions.

Technical institutes, for example, offer training to quality students for jobs right after graduation with a

minimum of on-the-job training. They offer intense training in your major field of interest with approximately 50 percent of the training being in practical applications in a laboratory situation. This combination of theory and practice results in an Associate of Technology degree.

Community colleges may offer similar programs, but their emphasis requires more theory and liberal arts studies. Four-year colleges may offer Bachelor of Engineering Technology degrees which build on the Associate of Technology foundation. Here again, there will be at least two semesters of liberal arts studies required.

Area vocational-technical schools will provide postsecondary training with heavy emphasis on lab experience. Similar training may be available through an apprenticeship program or in military technical schools.

Specifically in Kansas, the only two-year state-supported college specializing in science and engineering technology is Kansas Technical Institute in Salina. Two state-

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supported four-year schools offer Bachelor of Engineering Technology degrees. They are Kansas State University and Wichita State University. Pittsburg State University offers a Bachelor of Industrial Technology degree.

Of course, Kansas also offers private institutions which provide programs of study of varied length and depth in the technical fields. And there are locally supported area vo-tech schools throughout the state.

#### Learning in technology continues

Like most career fields, your training in engineering technology does not end with your formal instruction in college. In addition, you will receive on-the-job instruction and supervision. And your employer may offer advanced training in specialized areas.

Because each technological advance is likely to open a new area of study, education is an ongoing process in engineering technology. You should be prepared to accept, indeed create, changes.

The best reason for choosing engineering technology as a career is satisfaction. Satisfaction is an individual matter, of course, but if you are seeking financial rewards, a chance to serve mankind, and a challenge, engineering technology offers all three.

A college-level education in engineering technology is one of the best investments you can make. How much you invest, in terms of time and money, will vary greatly from school to school. Dollar costs will depend on the institution you select and on your personal situation.

Ask about in advance and plan to budget for tuition, fees, books, room and board, and any special tools that you are required to provide for your curriculum. Then ask what means of financial assistance are available to you. Most schools are happy to help you find the financial resources necessary for you to attain your educational goal.

Upon completing your formal education in engineering technology, you will be able to apply your knowledge in any one of a cluster of careers in your field. Anywhere you choose to locate, you will find

(Continued on page 31)



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Allen County Community Jr. College	Iola	209	\$ 8 credit hr.	\$549	96	Registrar, Allen County Community Jr. College, 1801 N. Cotton-wood, Iola, Kans. 66749. 316-365-5116.
Barton County Community College	Great Bend	1,250	\$10 credit hr.	\$675	144	Dean of Admissions, Barton County Comm. Jr. College, Great Bend, Kans. 67530. 316-792-2701 (Ext. 212).
Butler County Community College	El Dorado	1,101	\$13 credit hr.	\$650	112	Director of Admissions, Butler County Community College, El Dorado, Kans. 67042. 316-321-5083.
Cloud County Community College	Concordia	835	\$ 8 credit hr.	\$312 (Room only)	nly) 200	J.W. Carlson, Dir. of Admissions, Cloud County Community College, Concordia, Kans. 66901.
Coffevville Community Jr. College	Coffeyville	748.5	\$ 8 credit hr.	\$550	160	Dir. of Admissions, Coffeyville Community Jr. College, Coffeyville, Kans. 67337, 316-251-7700.
Colby Community College	Colby	098	\$10 credit hr.	001-099\$	264	Joe Mildretler, Dean of Admissions, Colby Community College, Colby, Kans. 67701. 800-432-7966.
Cowley County Community College & Vocational-Technical School	Arkansas City	737	\$ 8 credit hr.	\$635	70	W.S. Scott, Dean of Students, Cowley County Community College, Arkansas City, Kans. 67005, 316-442-0430.
Dodge City Community College	Dodge City	1,042	\$10 credit hr.	\$69\$	208	Michael Bohaty, Director of Admissions, Dodge City Community College, Dodge City, Kans. 67801. 316-225-1321 (Ext. 217).
Fort Scott Community College	Fort Scott	869	\$ 8 credit hr.	\$635	120	Registrar, Fort Scott Community Jr. College, 2108 S. Horton, Fort Scott, Kans. 66701. 316-223-2700.
Garden City Community Jr. College	Garden City	1,020	\$10 credit hr.	\$675	218	Director of Admissions, Garden City Community Jr. College, Garden City, Kans. 67846.
Highland Community Jr. College	Highland	643	\$10 credit hr.	\$550	180	Douglas L. Fitch, Dean of Student Affairs, Highland Community Jr. College, Highland, Kans. 66035.
Hutchinson Community College	Hutchinson	1,784	\$10 credit hr.	\$648	400	Director of Admissions, Hutchinson Community College, Hutchinson, Kans. 67501. 316-663-5781.
Independence Community Jr. College	Independence	551	\$ 8 credit hr.	\$800	96	Director of Admissions, Independence community Jr. College, Independence, Kans. 67301. 316-331-4100 (Ext. 31).
Johnson County Community College	Overland Park	5,903	\$15.50 credit hr	ŗ.		Director of Admissions, Johnson County Community College, College Blvd. & Quivira Rd., Overland Park, Kans. 66210. 913-677-8503.
Kansas City Kansas Community College	Kansas City	3,150	\$10 credit hr.			Director of Admissions & Registrar, Kansas City, Kans. Community Jr. College, 7250State Ave., Kansas City, Kans. 66112.913-334-1100.
Labette Community Jr. College	Parsons	899	\$ 8 credit hr.			Labette Community Jr. College, 200 South 14th St., Parsons, Kans. 67357. 316-421-6700.
Neosho County Community College	Chanute	469	\$ 8 credit hr.	\$540	80	Homer F. Bearrick, Dean of Students, Neosho County Community College, Chanute, Kans. 66720. 316-431-2820.
Pratt Community Jr. College	Pratt	520	\$10 credit hr.	\$692.50	104	Director of Admissions, Pratt Community Jr. College, Pratt, Nans. 67124, 316-672-5641.
Seward County Community College	Liberal	532	\$ 8 credit hr.	8670	88	Dean of Student Services, Seward County College, Liberal, Nans. 67901, 316-624-1951.
Private Two-Year Colleges						
Central College	McPherson	250	\$1,260 (ave.)	\$700	240	Director of Admissions, Central College, McPherson, Kans. 67460. 316-241-0723.
Donnelly College	Kansas City	440	\$35 credit hr.			Donnelly College, 1236 Sandusky, Kansas City, Kans. 66102.
Hesston College	Hesston	673	\$1,228	\$717	969	Student Services Department, Hesston College, Hesston, Kans. 67062, 316-327-4221.
St. John's College	Winfield	235	\$750	\$750	300	Wallace Behrhorst, Director of Admissions, St. John's College, Winfield, Kans. 67156. 316-221-4000 (Ext. 34).
State Technical Institutes						
Kansas Technical Institute	Salina	320	\$172.50	\$625	135	Director of Admissions, Kansas Technical Institute, Salina, Kans. 67401.
Vocational Technical Institute	Pittsburg	290	\$87.25	\$648-904	1264	William Gary Ward, Director, Vocational Technical Institute, Pittsburg State University, Pittsburg, Kans. 66762, 316-231-7000 (Ext. 401).
(Luciania orace office of the control of the contro						

Doctor, lawyer, merchant, parent.

Wait a minute. Parent doesn't belong in that rhyme. The first three are professions and a parent is ... a parent is ...

a. someone most people become sooner or later.

b. something you may become when you least expect it.

c. a person in the noblest profession.

d. working at the career we are least prepared for.

If you answer yes to all four, you're on target, because all are correct.

Although many young people today choose to postpone marriage and a family, most will eventually marry and rear children. And yes, a child can come when you least expect it — on Christmas Day or too late to be included as a tax deduction on this year's income form or just when you thought you had enough saved to make the down payment on a new car.

Parenting also is the noblest profession, according to two human development specialists at Kansas State University. Although we seldom think of parenting in terms of a profession or a career, Mike Martin and Chuck Smith see it this way. They agreed that in many ways today parenthood as a vocation gets short changed with the result that many young adults are ill-prepared with ideas or training about what Martin terms "the career that lasts longer than any other profession."

Both specialists are involved with youth through extension programs. Martin also serves on the Governor's Committee for Education for Parenthood and the steering committee to the Kansas White House Conference on Families.

Although education for parenthood is really lifelong learning that begins when we are born, Martin and Smith confirmed that an awareness of what it takes to become good parents can start any time.

If we look at the most important aspects of being parents, Smith said they can be divided into three main segments — caretaking, building relationships, and teaching.

Caretaking involves the basics of meeting a child's physical needs. How to change diapers and to make

# Doctor, lawyer, merchant, parent

By De McGlashon Assistant Extension Editor, Quality of Living

formula, when to feed solid foods or how to decorate a nursery are skills that give confidence to young parents.

## Good relationships — the result of time and effort

But building relationships with children is not so easily learned and carries added responsibilities. It takes concerted effort by parents to spend time with children, doing what children want to do. Building relationships means letting children know parents' feelings and values and encouraging children to talk about their own experiences.

Parents are their children's first teachers. Through love and discipline, parents guide their children as youngsters learn selfdiscipline.

Like a harmonious chorus, all three of these important concepts form a pattern of good parenting as the day-to-day "career" of parenting calls them into play.

Teaching these concepts of parenthood education is a shared responsibility, Martin and Smith said. Local schools and churches, families and organizations have an opportunity to help young people learn more about parenting.

Organizations such as 4-H, Big Sisters and Big Brothers and church groups offer teenagers a chance to work with youngsters. Some county extension offices sponsor 4-H babysitting clinics in which the main purpose is to make young adults more aware of the parenting role. Teens learn what to do in case of an emergency or what nutritious snacks to prepare, but they also find out that caring for children involves more than merely supplying immediate needs.

## Babysitting — a way to learn about children

Babysitting offers teens a good way to learn about children. In an increasingly mobile society, many families do not live close enough to relatives to call on nearby teens to lend a hand with younger cousins or

nieces and nephews. Fewer siblings in families mean children grow up without having older brothers and sisters to care for them.

Teaching human development in schools can happen throughout the curriculum and in everyday classroom situations, giving boys as well as girls more insights about their future parenting roles. High school courses such as English and social studies are relevant subjects which could logically introduce aspects of human development and family life.

"The time to learn about parenting is before you have kids," Smith advised. "By the time we become parents we have acquired or failed to acquire many of the skills that contribute to effective parenting.

"But," he added, "you can never be fully prepared for parenting because your own kids draw out much different feelings than those you'll experience with children not your own. Because we have such close identification with our own kids, it's difficult to be objective." this father of two said.

This spring as high school graduates march down the aisle to the stirring strains of 'Pomp and Circumstance,' probably all of them will know the words to their school song, some will know how to make down-filled jackets and others will be able to decipher physics equations, but most will have little more than an inkling of the most important career facing them — that of being a parent.

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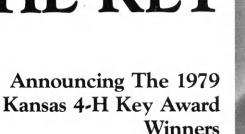
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If all the honors that can be gained in 4-H work, none is more prestigious than the Kansas 4-H Key Award. Regulations for Key Award consideration are stringent; only about one percent of the state's members are given this recognition each year. Candidates must first meet mandatory requirements which include a minimum of three years of club work completed, participation in at least two out-of-county events, enrollment in Junior Leadership during the current year, and two letters of recommendation — one of which must be from the adult leader

In addition to these and other basic qualifications, each nominee for the 4-H Key Award must have demonstrated

of the club.

outstanding contributions in leadership, citizenship, and community service. Exhibits, demonstrations, judging, public relations work, the holding of offices, and evidence of handling increased responsibilities in projects are also considered by the State Awards Committee when determining whether a 4-H'er has earned this honor.

With so many factors considered, the 4-H Key Award obviously is recognition for leadership development. Simply stated, it recognizes members who have lived up to the high ideals expressed by the 4-H pledge. It is an award to strive for with determination ... to win with a feeling of accomplishment ... and to wear with pride. Congratulations, winners!

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## DENTAL ASSISTING

By Bernice H. McDonald Certified Dental Assistant Flint Hills Area Vocational-Technical School Emporia

The dental assistant is a unique person, yet the talents possessed by the D.A. are not uncommon in other people. Dental assistants are not limited to business, science, or health care; the dental assistant fulfills interests in all three areas.

Behind the desk the dental assistant is a receptionist, office manager, secretary, accountant, and public relations counselor for the dentist. The abilities of the dental assistant in the office are a key factor in the success or failure of the dental team.

In the laboratory the dental assistant is an accurate and efficient scientist, for in this work there is little margin for error. By freeing the dentist from the laboratory, the dental assistant buys time that the

dentist needs for the patients.

At chairside the dental assistant becomes an extension of the dentist, an added hand, an added eye, an added mind, an instrument of the dentist's occupation, a teammate.

To the patient the dental assistant is a friend, a counselor, and a smiling face in an antiseptic world.

In the state of Kansas there are four dental assisting programs, three in vocational schools and one in a community college. The program at Haskell is a two-year program limited to students of Indian heritage.

Dental assisting programs at Flint Hills AVTS, Salina AVTS, and Wichita AVTS are nine-month programs. Only the programs at the Flint Hills AVTS and the Wichita AVTS are accredited by the American Dental Association Commission on Accreditation. The Salina program, in its third year, is not yet accredited.

Accredited programs must follow the "Guidelines" established by the American Dental Association Commission on Accreditation. Applicants must be a graduate of an accredited high school or have a G.E.D. certificate, have taken typing, biology, or physiology. A preadmission examination is given to all applicants with testing dates scheduled by the vocational schools. A personal interview and dental and medical examinations are required.

The curriculum in all dental assisting programs includes: orientation, business and office procedures, clinical practice, chairside assisting, dental health education, communication skills, dental materials and laboratory procedures, dental radiography, general anatomy and physiology, first aid and office emergencies, professional ethics, oral histology, oral pathology, microbiology, nutri-

# CAREER OPPORTUNITIES UNLIMITED

The variety of careers in health offers rich scope for the inquiring mind, as well as the excitement and gratification of helping advance man's progress in dealing with himself and his environment.

In spite of the growing number of persons in the health professions, the supply has not kept pace with the demand for services. The opportunities are truly unlimited! Whatever your choice—medicine, dentistry, nursing, public health, pharmacy, medical technology, medical assistance, biophysics, biochemistry, bacteriology, to mention only a few—your prospects will be what you make them, determined by your interest and capacity, your training, your decisions, your work.

The Kansas Medical Society and the Kansas Farm Bureau have a joint program, *Mediserve*, designed to identify and assist Kansas students gain admission to the medical school. The intent of this program was to assure that Kansas-trained medical students will remain to practice in this state. For further information, please contact: Ms. Mary Wiersma, Kansas Farm Bureau, 2321 Anderson Street, Manhattan, Kansas 66502. Telephone: 913-537-2261.

The Kansas Medical Society

1300 Topeka

Topeka, Kansas 66612

tion, psychology, dental specialties, head, neck and dental anatomy, and English.

Those students who graduate from accredited programs write the National Certification Examination. If successful, they become certified dental assistants. This certification is valid in all 50 states.

The dental assistant is in great demand today throughout the country. In a sense this is a new field; it is an important and honorable part of the dental profession. It affords an attractive career in an area vital to the health of the community and to the nation.

The dental assistant is secure in the knowledge that there are always jobs available in the dental field. Employment is available in private practice, within group practices, or in government service.

But, wherever the dental assistant serves, the work will be as interesting as it is diversified, and as rewarding as it is important.

The dental assistant well deserves the honor, respect, and gratitude that mankind has always reserved for those who have chosen to comfort and heal. This choice can be yours.





# Kansas Four-Year Colleges

	Fall So	mester, 197	q		
School	(Equ	ated Full-Time) Enrollment	Туре	Affiliation	Accreditation
Baker University	Baldwin	857	Coed	Methodist	Kansas State Dept. of Public Instruction; Nat'l. Council for Accred. of Teacher Education; Univ. Senate of the Methodist Church; American Assoc. of Univ. Women*
Benedictine College	Atchison	1045	Coed	Catholic	Nat'l. Council for Accred. of Teacher Education; State Dept. of Public Instruction; Nat'l. Association of Schools of Music; Nat'l. Catholic Education Assn.*
Bethany College	Lindsborg	789	Coed	Lutheran	Kansas State Departmentof Public Instruction; Council for Social Work Ed., Nat. Assoc. of Schools of Music; NCATE*
Bethel College	North Newton	672	Coed	Mennonite	Kansas State Department of Public Instruction, AAUW; North Central Regional Association on Social Work Education.
Emporia State University	Emporia	5,177	Coed	State	Fully Accredited by the North Central Accrediting Association and by various professional accrediting agencies.
Fort Hays State University	Hays	4,570	Coed	State	St. Dept. of Pub. Instr.; Ks. St. Bd. of Nurs., Amer. Assn. of Col. for Teach. Ed.; Natl. Assn. of Bus. Train. Insts.; Natl. Counc. for Accred. of Teacher Ed.; Natl. Assn. of Schs. of Music; AAUW; N. Cen. Rgnl. Assn.;
Friends University	Wichita	736	Coed	Soc. of Friends	Counc. of Grad. Schs.; Natl. Leag. for Nurs.* Nat'l. Council for Accred. of Teacher Education; Nat'l. Assn. of Schools of Music*; Kansas State Board of Education
Friends Bible College	Haviland	143	Coed	Independent	American Assoc. of Bible Colleges
Kansas Newman College	Wichita	521	Coed	Catholic	Kansas State Dept. of Public Instruction; National Catholic Educational Assoc.*
Kansas State University	Manhattan	17,134	Coed	State	Fully accredited by the North Central Accrediting Association and by various professional accrediting agencies.
Kansas Wesleyan	Salina	415	Coed	Methodist	University Senate of the Methodist Church; AAUW; Kansas State Dept. of Education; North Central Regional Assn.*
Manhattan Christian College	Manhattan	262	Coed	Christian	American Association of Bible Colleges.
Marymount College of Kansas	Salina	787	Coed	Catholic	Nat'l. Council for Accred. of Teacher Education; Nat'l. League for Nursing, Nat'l. Assn. of Schools of Music*; Kan. St. Board of Education.
McPherson College	McPherson	500	Coed	Brethren	Kansas State Department of Education; Kansas Assn. of Colleges and Universities; North Central Regional Assn.*; Kan. State Board of Education.
Mid-America Nazarene College	Olathe	1,292	Coed	Nazarene	Kansas State Department of Education*
Ottawa University	Ottawa	530	Coed	Baptist	Kansas State Dept. of Public Instruction; American Baptist University*
Pittsburg State University	Pittsburg	4,603	Coed	State	Natl. Counc. for Accred. of Teacher Ed.; Natl. Assn. of Schools of Music; Natl. Univ. Extens. Assn.; Am. Assoc. of Col. for Teacher Ed.; Am. Chemical Soc., Natl. Leag. for Nursing*; Eng. Counc. for Profes. Development.
Saint Mary College	Leavenworth	555	Women	Catholic	Nat'l. Council for Accre. of Teacher Education; Nat'l. Association of Schools of Music; Nat'l. Council for Accred. of Teacher Education*.
Saint Mary of the Plains College	Dodge City	660	Coed	Catholic	Kansas State Department of Public Instruction; Nat'l. Association of Schools of Music; Nat'l. Council for Accred. of Teacher Education*.
Southwestern College	Winfield	609	Coed	United Methodist	Kansas State Department of Public Instruction; Nat'l. Association of Schools of Music; Kans. State Elementary and Secondary Teacher Ed. Programs.
Sterling College	Sterling	491	Coed	Presbyterian	Kansas State Department of Public Instruction; American Association of University Women; Nat'l. Crediting Assoc. Teacher Education*.
Tabor College	Hillsboro	419	Coed	Mennonite	Nat'l. Association of Schools of Music; Kansas State Department of Public Instruction*.
University of Kansas	Lawrence	21,993	Coed	State	Prof. Accred.; Arch.; Art; Busi.; Chem.; Engin.; Journ.; Law; Medical Tech.; Medicine; Music; Nursing; Occup. Ther.; Pharm.; Phys. Ther.; Psych.; Social Work; Speech Path. & Audio.; Teacher Ed.; Radiation Ther.; Respir. Ther.; Med. record admin.
Washburn University	Topeka	4,189	Coed	Municipal	Nat'l. Council for Accred. Teacher Education; Assn. of American Law Schools; American Bar Assn., American Assn. of Univ. Women; Nat'l. Assn. of Schools of Music*.
Wichita State University	Wichita	10,628	Coed	State	Nat'l. Council for Accred. Teacher Education; Nat'l. Assn. of Schools of Music; Engineers; Council for Professional Development; American Chemical Society Committee for the Professional Training of Chemists*. Council on
*Is accredited by North	Central Association	n of Colleges a	nd Secondar	y Schools	Dental Education; American Assembly of Collegiate Schools of Busines; North Central Nat. League for Nurs- ing; Amer. Med. Assn. Bd. of Schools

<sup>\*</sup>Is accredited by North Central Association of Colleges and Secondary Schools

# Information for the Academic Year Beginning Fall 1979

Tuition and Fees Academic Year*	Board and Room in Residence Halls Academic Year**	On Campus Housing Capac	SCHOLARS ity No.	HIPS Average Amount	WRITE OR CALL FOR INFORMATION TO
\$2,660	\$1,490	800	426	921	Director of Admission, Baker University, Baldwin City, Kansas 66006. 913-594-6451.
2,800	1,630	1,000	275	1,000	Benedicine College, Director of Admissions, North Campus, Atchison, Kansas 66002. 913-367-5340.
2,390	1,571	635	250	450	Director of Admissions, Bethany College, Lindsborg, Kansas 67456. 913-227-3311 (Ext. 111).
2,458	1,497	620	350	400	Office of Admissions, Bethel College, North Newton, Kansas 67117. 316-283-2500.
548	1,220-1,490	1,506	650	400	Office of Admissions, Emporia State University, Emporia, Kansas 66801. 800-362-2578.
637	1,210-1,350 (includes 10, 15	1,767	630	350	Registrar & Director of Admissions, Fort Hays State University, Hays, Kansas 67601. 913-628-4222.
2,540	or 20 meal plan) 1,295	188	385	550	Office of Admissions, Friends University, Wichita, Kansas 67213.
2,650	1,300	115	90	450	Director of Admissions, Friends Bible College, Haviland, Kansas 67059. 316-862-5252.
2,250 for 30 hrs.	1,370	277	145	500 (per year)	Director of Admissions, Kansas Newman College, Wichita, Kansas 67213.
696	1,360	5,000	1,700	300	Director of Admissions, Kansas State University, Manhattan, Kansas 66506. 913-632-6250.
2,180	1,386	500	150	890 (per year)	Director of Admissions, Kansas Wesleyan, Salina, Kansas 67401.
1,463	1,700	168	65	225 (per year)	Director of Admissions, Manhattan Christian College, Manhattan, Kan- sas 66502. 913-539-3571.
2,140	1,350	288	270	700	Director of Admissions, Marymount College, Salina, Kansas 67401.
2,550	1,440 (average)	430	Unrestricted number available.	450	Director of Admissions, McPherson College, McPherson, Kansas 67460. 316-241-5155.
1,764	1,450	920	500	600	Director of Recruitment, Mid- America Nazarene College, Box 1776, Olathe, Kansas 66061. 913-782-3750.
2,616	1,470	768	550	650	Director of Admissions, Ottawa University, Ottawa, Kansas 66067. 913-242-6445.
510.50	1,375 (average)	950	650	350	Office of Admissions, Pittsburg State University, Pittsburg, Kansas 66762.
1,950*	1,325	365	226	650	Director of Admissions, Saint Mary College, Leavenworth, Kansas 66048. 913-682-5151 (Ext. 240).
2,270	1,400	490	470	300 renewable	Director of Admisions, Saint Mary of the Plains College, Dodge City, Kansas 67801.
2,255	1,344	565	560	500	Director of Admissions, Southwestern College, Winfield, Kansas 67156. 316-221-4150 (Ext. 36).
2,440	1,260	545	200	800 (renewable	Director of Admissions, Sterling College, Sterling, Kansas 67579. 316-378-2113 (Ext. 278 = Collect).
2,520	1,445	380	250	for 4 yrs.) 450	Director of Admissions, Tabor College, Hillsboro, Kansas 67063. 316-947-3121.
716.20	1,380-1,405	5,200	2,044	434	Office of Admissions and Records, University of Kansas, Lawrence, Kansas 66045.
\$21 per hour plus \$3 per hour fee, plus \$10 activity fee	1,600	339	500	300	Registrar and Director of Admissions, Washburn University, Topeka, Kansas 66621.
782	1,475	835	1,383	511	Director of Admissions, Wichita State University, Wichita, Kansas 67208. 800-362-2594.

<sup>\*\*</sup>Prices may vary because of different meal plans, kinds of rooms, and services available.

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Director of Admissions Hays, Kansas 67601 913-628-4222

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Director of Admissions Manhattan, Kansas 66506 1-800-432-8270 toll-free (Kansas only) 913-532-6250

#### KANSAS TECHNICAL INSTITUTE

Director of Admissions Salina, Kansas 67401 913-825-0275

#### PITTSBURG STATE UNIVERSITY

Director of Admissions Pittsburg, Kansas 66762 316-231-7000

#### UNIVERSITY OF KANSAS

Director of Admissions Lawrence, Kansas 66045 913-864-4422

#### WICHITA STATE UNIVERSITY

Director of Admissions Wichita, Kansas 67208 316-689-3085



# Maybe you should count on ACCOUNTING

By Guy W. Owings
Chairman, Department of Accounting
Pittsburg State University
Pittsburg

Describing someone as an accountant is no more precise than saying someone is in agriculture. In both areas, there are an incredible variety of employment opportunities and skill requirements. In both fields, there exists a wide range of rewards and lifestyles.

As an accountant for a large corporation, assignments might one week be in the office to audit contracts for purchase of materials. The next week the assignment might include a visit to an offshore drilling platform in the North Sea by helicopter or boat. When I was working as a certified public accountant, my duties took me from 600 feet underground in a lead mine to the tops of grain elevators. My work included verification of such diverse inventories as silver and farm machinery and audits of stockbrokers and asphalt plants.

## Principal Employers of Accountants

While assignments can be quite varied, there are some general classifications which could be helpful in describing the profession of accounting. The principal employers of accountants are certified public accounting (CPA) firms, business firms, such as manufacturers or retailers, and notfor-profit organizations, such as governmental agencies, hospitals, and the like. Each of these will be described briefly below.

#### • CPA Firms

CPA firms range in size from one-person offices to large, international firms with offices in hundreds of cities around the world and staffed by thousands of employees. Regardless of size, CPA firms usually provide three principal services: audits, tax service, and consulting.



Audits are conducted to determine if business financial statements are accurate and correctly prepared, so that banks and stockholders can rely on them. Tax services include assistance in preparation of complex tax returns and in tax planning, to minimize tax liability. Consulting

covers a wide variety of activities, but is frequently assistance in the design of accounting and management information systems.

#### Business Firms

Business firms include manufacturing, retailing, financial, and service companies. Positions within these firms which require an accounting background are general accounting, budgeting, tax, financial analysis, cost determination and control, and internal auditing.

Having developed a special skill in finances, accountants usually have a clear road to the top level of management. One of the highest paid chief executives in the United States (\$900,000 per year) started his career in accounting.

(Continued on page 26)

#### YEARS at a CHRISTIAN COLLEGE **PREPARE** FOR A JOB Take two years of personalized training in the career area of your choice For more information, please check areas of interest and mail to Director, Admissions, Central College, McPherson, KS 67460 \_agri-business accounting aviation auto mechanics Bible/Christian service\_ \_business management \_\_\_\_ \_\_carpentry\_ dietetics library technology \_\_\_\_piano \_\_data processing \_\_ \_pre-nursing\_ recreational leadership secretarial social service associate transfer program other, please specify Name Church Affliation \_

#### Accounting

(Continued from page 25)

#### • Not-For-Profit Organizations

Not-for-profit organizations include the various national, state, and local governmental units, such as the Federal Internal Revenue Service, General Accounting Office, and the many executive branch departments.

Other not-for-profit firms needing accountants include hospitals, charitable organizations, and co-ops. In many cases, job descriptions are virtually identical with the positions available in businesses.

#### **Opportunities and Rewards**

Salaries for accountants with college degrees start in the neighborhood of \$12,500-\$15,000 for someone with little experience. The top salaries are quite high. The median income for national CPA firm partners is now more than \$100,000 per year.

Future prospects look good. A recent survey indicates that for the next few years, demands for accountants will increase 22 percent while supply is expected to go up only 13 percent. Opportunities are excellent for both males and females. Some firms have reported that approximately 50 percent of their professional staffs are female.

## Preparation for an Accounting Career

Professional certification is available in accounting and should be the goal of all accountants who wish to be true professionals. The Certified Public Accountants

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(CPA), Certified Management Accountant (CMA), and Certified Internal Auditor (CIA) examinations all require a baccalaureate degree with extensive work in accounting in order to take the comprehensive examinations. There are additional requirements, usually including relevant work experience.

All of the state's regent's institutions offer accounting programs which will meet the educational requirements to sit for the professional examinations. Many accountants will begin their studies at twoyear schools; however, full professional certifications requires at least four years of college.

If you have any questions regarding a career in accounting, please feel free to write Guy W. Owings, Chairman, Department of Account-



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ing, Pittsburg State University, Pittsburg, Kansas 66762. Or you can write to the Department of Accounting at Emporia State University, Fort Hays Sate University, Wichita State University, Kansas State University at Manhattan, or the University of Kansas at Lawrence. You may wish to visit these campuses and address your questions to accounting professors and students.



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See Listing Page 20

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# Journalism:

# The career that's right if you like to write

By Dr. Robert Bontrager
Acting Head
Journalism and Mass Communications
Kansas State University

Several years ago an alarm sounded that too many students were heading for careers in journalism. Enrollments were up in most journalism schools, and the word was out that many graduates would not find jobs.

It was a false alarm, raised by people who were not up to date on the journalism job market.

The vigorous interest in journalism education is not hard to understand. Journalism offers the widest possible range of career choices. And for many students, a major in journalism is an excellent preparation for non-journalism careers, such as law, public service, and business management.



Fifty years ago the typical journalist was part of a newsroom staff. Now about three in ten journalism students go to newspapers. Others are preparing for jobs in radio, television, advertising and promotion, public information and

public relations, journalism teaching, magazines, photojournalism, and wire services.

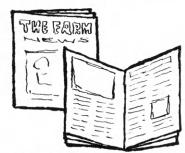
Today's journalist is a trained communicator, and the opportunities for jobs are many and varied. Consider, for example, the career field of agricultural journalism. Wherever there's a need to make agricultural information available to some audience, there you'll likely find an agricultural journalist. It might be a job on a newspaper or magazine, in radio or television, in advertising, in public relations or promotion.

You find agricultural journalists doing a variety of work. They edit your state and national farm magazines; they work on specialized farming magazines, on breed journals, on trade magazines related to agriculture. On newspapers they are farm writers, editors, or science writers. In radio and televison they are farm program directors. On ad

agencies they handle accounts for agricultural clients. Some agricultural journalists work for companies or cooperatives as advertising or public relations staff. Others work for government or for universities in extension information — interpreting research findings for farm and industry, editing bulletins, making movies, designing exhibits, writing news releases and features for newspapers, magazines, radio and television.

Agricultural journalism is not the only specialized area that offers varied job opportunities and good pay. Home economics journalism is another.

But most students who begin college to major in journalism have not yet selected a specialized career area such as agricultural or home economics journalism. Fortunately, the four years provide ample time for the student to discover and pursue the specific career interest.



The journalism major at Kansas State does not enroll in a journalism course until the sophomore year. At the beginning of the junior year, the student selects one of six curricular areas: news-editorial, magazine, radio-television, public relations, advertising, or general. This is typical of accredited journalism departments.

Students learn soon enough that the trained communicator must go beyond the basic skills of reporting, writing, and editing. Journalism majors take only 25 percent of their

(Continued on page 28)

#### **How About The Newspaper Business?**

If you are thinking about following a business or professional career, why not spend an hour visiting with your home town editor and learn about the possibilities in journalism?

The newspaper business offers an opportunity for a most interesting and rewarding life for the young man or woman who has a broad educational background, a liking for people, courage, and a desire to have an active part in the American way of life.

A good newspaper man has the satisfaction of knowing that he is helping others to a better life. He remembers that "The People Have The Right to Know" and, that there is no better way to have a well informed Democracy than through the printed word.

Before you make up your mind on your life's work, please think seriously about journalism. Thousands have found it a most enjoyable and rewarding career. Maybe you?

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#### **Journalism**

(Continued from page 27)

course credits in journalism. This allows the student to gain a broad knowledge in many subjects in the arts, humanities, sciences, and business.

With the age of specialization, many journalism students choose to take a second major in such areas a political science, economics, urban affairs, and business. A solid foundation in one of these areas may lead to further professional development later in the career.

Some question the necessity of a journalism education to get a job as a journalist.

While it is possible to get a job without a journalism education, most young people who find media jobs are journalism graduates.

Although the Newspaper Fund reported almost 16,000 journalism graduates in 1978, journalism departments reported there was no major problem in placing graduates looking for work. More often than not, schools said the demand for journalism graduates was greater than they could satisfy.

Journalism education is improv-

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ing, and most journalism departments are looking for the above-average student. Employers ask journalism professors to send their best journalism students. And it's no secret that the best students have the greatest choice of jobs.

If you are planning to go into journalism at college, you can get a head start. Learn to type. And read as much as you can — newspapers,

(Continued on page 31)

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# Picture yourself as a commercial artist

By Jan Smith Managing Editor Magazine of the Kansas City Art Institute

The type on this page used to spell the words of this article was designed by a visual artist working to solve a visual communication problem. The chair you're sitting in and the fabric covering it also were designed by visual artists. Publications and advertisements are produced with the help of layout designers, photographers, and paste-up artists. The style of our clothes is a result of the imagination of fashion designers.

In fact, almost everything that has been manufactured has been designed by a professional artist working in one of the many career categories in the vast field of the visual arts.

Young people majoring in art-related fields today are finding jobs as art educators, art therapists, independent artists, art critics and writers, self-employed gallery owners, artists-in-residence and visiting artists in art schools and colleges, and staff artists in stores, schools, businesses, hospitals, hotels, and churches. The number and type of jobs in art-related fields are only as limited as the imagination, energy, and drive of the artist looking for a job.

But how does one prepare to do this interesting work?

"Patience, skill, and hard work are as important as creativity," Jerrold Maddox, head of the art department at Kansas State University, commented. To become a commercial artists takes training as well as talent.

You have several options for places where you can find this kind of training. One is at a special art school such as Kansas City Art Institute. (Ed. note: David Harmes who designed this magazine's cover, is a graduate of KCAI.)

Then the state four-year colleges — Emporia State University, Fort Hays State University, Pittsburg State University, Kansas State University, University of Kansas, and Wichita State University — offer courses in commercial art and in graphic design.

And many of the other four-year

colleges, and some of the two-year colleges, also have such classes. To find out about the one you're interested in, you can write or visit the campus.

Recent graduates can expect a first-year salary anywhere from under \$7,000 to \$18,000 based on a 1977 alumni employment survey for the Kansas City Art Institute. The survey showed that 27 graduates had found jobs in design, 19 in painting, 5 in printmaking, 13 in sculpture, 10 in photography, 2 in cinematography, 15 in ceramics, and 2 in fiber.

When one applies for a job, professionals agree that, in addition to college or art school education, the applicant should have a portfolio. Some say that a portfolio is almost as important as the art education. The portfolio is a collection of work and a "reference" that shows what you are capable of doing or, eventually, the commercial work you have done. Your portfolio should grow as you gain experience and it should be a visual record of your best work.

As each artist pursues a career with his own distinctive work, purposes, and values, he will find that individuality and self-discipline are key factors in becoming a success.

At the Kansas City Art Institute, a full-time career counselor, Janice Noe, helps students in planning their art careers on a one-to-one counseling basis. There and at other colleges, the focus of the career planning and placement office is to give the students the knowledge and information needed to get the jobs they want. Information is available on job hunting skills and techniques, resumes, cover letters, proposal writing, grants, fellowships,

internships, and art law. With this help, students can fully understand the fundamentals involved in finding a job as an artist.

"I think each artist has to find his own niche in the art world," Noe said recently. "Each artist has his or her own specific interest as far as art is concerned. As counselor, I give the students suggestions on where to find work, and they, in turn, choose the place that best fits their requirements.

"I'm finding more and more artrelated jobs all the time," she added.

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(Continued from page 15)

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If you have a particular request for more information about aeronautical, agricultural, architectural, chemical, civil, electronic, environmental protection, fire science, forestry, health-related, industrial, mechanical, metallurgical, nuclear, petroleum or structural engineering technology, send your request to Engineer's Council for Professional Development, Guidance Department, 345 East 47th Street, New York, New York 10017.

#### **Journalism**

(Continued from page 28)

magazines, and books. Sharpen your writing skills at school on your local newspaper and in volunteer work.

And don't forget, be careful and deliberate in selecting the college or university that is right for you. Visit the campus before you decide. Set up a meeting with the head of the journalism department. And don't forget to talk with journalism students about opportunities to apply skills during your college years.

The need for well-trained journalists and the importance of their work in our society are apparent when we consider how much of our information and knowledge comes through the mass media. Journalists work with people who set the pace in our society; they feel the pulse of public issues. If you are looking for a career that is absorbing and stimulating, you can't make a better choice than journalism.

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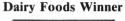
# **Congratulations**

# from Midland United Dairy Industry Association

to the more than a thousand 4-H members who were enrolled in the 4-H dairy and dairy foods projects in 1979! You are all winners as you provide and prepare nutritious food for your families.

Special congratulations to these special winners:

State Dairy Winner





Angela Scanlan, Abilene



Debbie Reinhardt, Erie

These 4-H members won trips to the National Dairy Conference at Madison, Wisconsin, for their herds' high production records:

Sandra Schrag, Reno County, Guernsey, Larry Funk, Marion County, Holstein, Terry Pankratz, Marion County, Ayrshire, Angela Scanlan, Dickinson, Holstein.

The high county dairy judging team at Kansas State Fair was from JEFFERSON COUNTY. Members were:

John Houck, second high individual, Dale Wheeler, seventh high individual, Susan Lobb, Keith Hefty.

The four top individuals in the state dairy judging contest made up a team which went to the national dairy contest. They are:

Ted Van Horn, Franklin County, John Houk, Jefferson, Kevin Krerking, Marshall, Mark Maris, Linn.

Winners in the dairy poster contest which was sponsored by the Midland United Dairy Industry Association are:

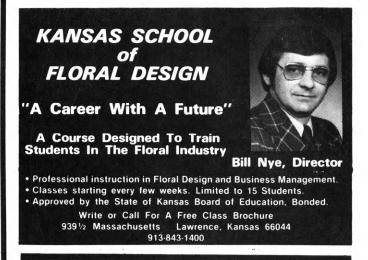
Vickie Lichtenhan, Geary County, in the division for those in grades 2,3,4 and Jarvis Claypool, Stafford County, in the division for those in grades 5,6,7.

# Computer Occupations

By Dr. Victor L. Wallace Chairman, Dept. of Computer Science University of Kansas, Lawrence

Although computers are used in almost every activity in our modern society, certain occupations are concerned especially with computers.

Some of the specialties of the scientists who work in these occupations are:









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#### If you have a safety talk at each regular 4-H meeting—

give a safety skit at 4-H Day and at Regional
(and win top blue)—
use a safety theme for your booth—
sponsor a holiday coffee stop for travelers—
have a safety survey form available for each 4-H
family—

if you do these things, and more, you have a safety-conscious 4-H club. You may also have the winning club in the Kansas 4-H safety program. The group who did all this is

# TINY TOILERS 4-H CLUB, PAWNEE COUNTY

Eight members and two leaders from this club will go to Kansas 4-H Congress, thanks to the Safety Division of Kansas Farm Bureau, donor of 4-H safety awards in Kansas.

Other 4-H clubs in the top ten are:

Glittering Stones, Cherokee County Sand Springs Rustlers, Dickinson Meadowlark, Douglas Happy Hustlers, Ford Hi-Plains, Logan Cheery Cherokees, Montgomery Liberty Bell, Osborne Victory, Pottawatomie Huntsville Helpers, Reno

They'll each receive \$25 for their club treasury, and a scholarship for one member to the Kansas Farm Bureau Safety Seminar at Rock Springs Ranch. The member who goes must be 14 but not past 16 by June 3, 1980.

Kansas Farm Bureau thinks Kansas people and their lives and safety are important and also thinks that good safety habits can't be learned too young. For these reasons, the Safety Division of Kansas Farm Bureau is **glad** to be the sponsor of the 4-H safety program in Kansas.

Your club can be a top safety club in 1980. **NOW** is the time to plan and to work to carry out your plans.

## Kansas Farm Bureau

Safety Division

Manhattan, Kansas

Computer Programmer—Formulates or modifies computer solutions to problems through the specification of information structures and computer-implementable procedures. Usually, he also codes these structures and procedures in a programming language such as PASCAL, COBOL, FORTRAN, PL/I, or LISP, and tests them.

Systems Analyst—Studies a human organization which requires improved information control or processing, and determines the best strategy for accomplishing the improvement by a combination of human procedures, machines, and programs.

Information Systems Specialist—Studies a system of information and selects the means for storing, accessing, and retrieving specific data from a machine. Examples are library data bases, and management information systems.

**Operations Specialist**—Selects and adjusts the hardware and software components of a computer system to meet performance requirements under observed or projected usage.

Research Specialist—Studies the tools and models of the computer scientist, with a view to their improvement. This person works with abstract models of problems and areas of application whose solution is not yet regarded as feasible or acceptably efficient with modern computers.

Paraprofessional occupations provide service to professionals or assist managers in operating environments. Some principal occupations are:

Computer Coder—Codes solutions to problems, formulated by others, in a programming language, tests them, and maintains and updates existing programs.

Computer Operator—Enters programming jobs onto a computer system, mounts demountable data files, collects and distributes computer output, maintains a vigilance for system failure or special requests.

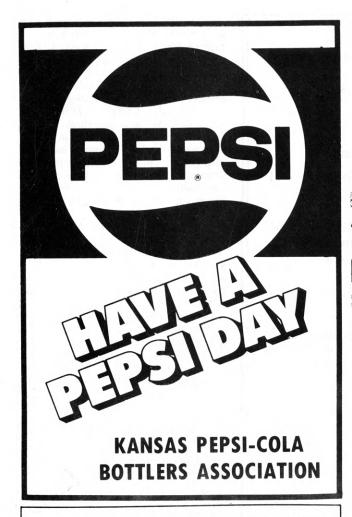
**Computer Technicians**—Services and installs computers and computer components, preventing failure where possible, effecting repair when necessary.

The University of Kansas and Kansas State University both have a full range of undergraduate and graduate programs in computer science. Wichita State University has an undergraduate program in computer science.

Technical schools and two-year colleges offer computer courses, also.

Persons planning to study computer science should have a aptitude for abstract subjects, should enjoy problem solving, and should be prepared with a full range of high school mathematics.

Jobs at all levels are plentiful, and likely to remain so over the next decade. Job offers for 1979 BS graduates have ranged between \$17,000 and \$21,000.



#### WASHBURN UNIVERSITY CONGRATULATES **ALL KANSAS 4-H MEMBERS!**



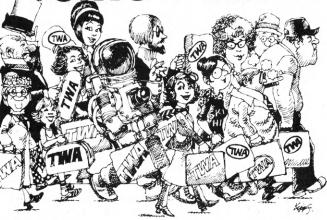
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Bert Jones,
Baltimore Colts



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Baldwin Advertiser
Barton County Community College, Great Bend. 14
Bethany College, Lindsborg
Capitol Federal Savings
Central College, McPherson
Cloud County Community College, Concordia. 9
Colby Community College
Cowley County Community College,
Arkansas City
Diversified Insulation, Wellsville
Dodge City Community College28
Farm Bureau Insurance
Federal Land Bank, Wichita18,19
First National Bank, Topeka
Fort Scott Community College
Garden City Community College 4
Hays Advertisers
Highland Community Junior College
Johnson County Community College
Journal-World, Lawrence27
Kansas Air National Guard
Kansas Army National Guard
Kansas Bankers Association
Kansas 4-H Foundation, Manhattan30
Kansas Medical Society, Topeka20
Kansas Pepsi Cola Bottlers
Kansas Savings & Loan Assn
Kansas School of Floral Design, Lawrence32
Labette Community College, Parsons12
Leavenworth Advertiser
McPherson Advertisers 6
Mid-America Nazarene College, Olathe31
Midland United Dairy Industry Assn32
Neosho County Community Junior College, Chanute
Newton Advertiser
Rural Electric Cooperatives
Safety Division, Kansas Farm Bureau33
Salina Advertiser
Sangamon Mills, Cohoes, N.Y35
Sterling Advertiser
Steve Smith Audio Visuals, Topeka29
Thermal Shield, Hesston
Overland Park
Washburn University, Topeka34
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