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Kansas 4-H

Journal

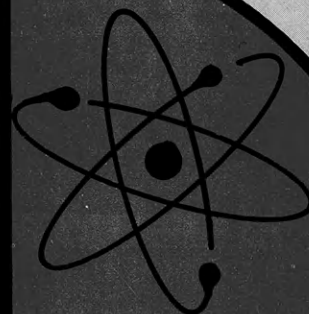
The 4-H Family Magazine

February
1971

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1971



Education
and
Careers



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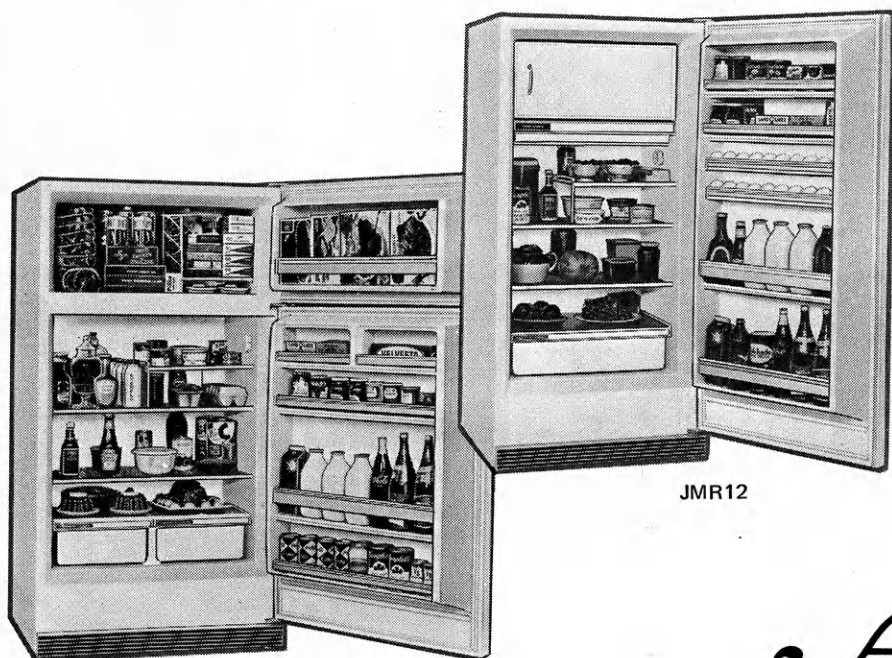
JSS22

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Education and Careers

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Published Monthly By
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dear kid:

TODAY you asked me for a job. From the look of your shoulders as you walked out, I suspect you've been turned down before, and maybe you believe by now that kids out of high school can't find work.

But, I hired a teenager today. You saw him. He was the one with polished shoes and a necktie. What was so special about him? Not experience, neither of you had any. It was his attitude put him on the payroll instead of you. Attitude, son. A-T-T-I-T-U-D-E. He wanted that job badly enough to shuck the leather jacket, get a haircut, and look in the phone book to find out what this company makes. He did his best to impress me. That's where he edged you out.

You see, Kid, people who hire people aren't "with" a lot of things. We know more about Bing than about Ringo, and we have some Stone-Age ideas about who owes whom a living. Maybe that makes us prehistoric, but there's nothing wrong with the checks we sign, and if you want one you'd better tune to our wave length.

Ever hear of "empathy?" It's the trick of seeing the other fellow's side of things. I couldn't have cared less that you're behind in your car payments. That's your problem. What I needed was someone who'd go out in the plant, keep his eyes open, and work for me like he'd work for himself. If you have even the vaguest idea of what I'm trying to say, let it show the next time you ask for a job. You'll be head and shoulders over the rest.

Look kid: The only time jobs grew on trees was while most of the manpower was wearing G.I.'s and pulling K.P. For all the rest of history you've had to get a job like you get a girl: "Case" the situation, wear a clean shirt, and try to appear reasonably willing.

Maybe jobs aren't as plentiful right now, but a lot of us can remember when master craftsmen walked the streets. By comparison you don't know the meaning of "scarce."

You may not believe it, but all around you employers are looking for young men smart enough to go after a job in the old-fashioned way. When they find one, they can't wait to unload some of their worries on him.

For both our sakes, *get eager*, will you?



In 1924 John Edgar Hoover was appointed director of the Federal Bureau of Investigation. Mr. Hoover reorganized the FBI, and under his leadership it became noted for its integrity and freedom from political control. Each succeeding attorney general has reappointed J. Edgar Hoover as head of the agency.

Mr. Hoover has written two books, "Persons in Hiding" and "Masters of Deceit." On page 11 in this issue is an article about careers in the FBI by this man whose long career in the FBI has been one of service to his country.

Kansas Area Vocational-Technical Schools

Cowley County Community Junior College, division
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School facilities include a complete farm production unit of 875 acres plus equipment and livestock. If you are interested in a professional career in farm and ranch management, you should investigate this program.

Other programs available through the S.E.K. Area Vocational-Technical School include: Machine Shop, Auto Mechanics, Drafting, Printing, Electronics, Business, Cosmetology, Licensed Practical Nursing, and Farm Power Mechanics.

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Have you considered Vo-Tech?

By Darrell Brensing

What are you going to do next year? This is a question that is on the mind of every senior in high school today either consciously or unconsciously. It is a question that will be answered whether action is taken or not. If you are living next year, you will have to be doing something whether it is furthering your education, entering military service, entering employment, or getting married.

It is indeed tragic when a person graduates from high school (or drops out) and has no idea what he wants to do with his life. How much better it is when a young person has had the opportunity to explore various fields of interest and has set realistic goals which he can achieve. As soon as you set your goals, it is then a simple matter of deciding how you will reach them.

The author has had countless numbers of people of all ages



Darrell Brensing is a member of the Advisory Council of the American Vocational Association, and is past president of the Kansas Vocational Association. Mr. Brensing is director of the Manhattan Area Vocational Technical School.

come into his office and expect to be told what course of study they should pursue. How ridiculous it is to expect someone else to choose what you are going to be doing for the rest of your life.

Each of you needs to look ten years in the future and ask yourself what you want to be doing at that time. If you know, then set out to meet those goals.

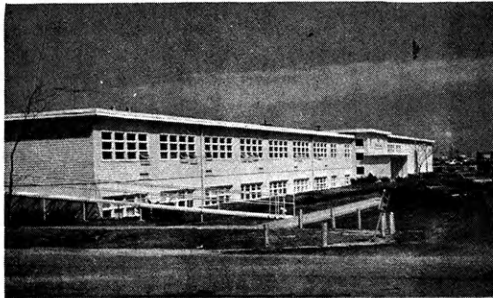
Many girls have only one goal—to get married. However, statistics show that if a woman has both a husband and children, she will work for a paycheck for 25 years. If she has a husband and no children, she will work for a paycheck for 29 years. And if

she, for any one or more of many good reasons, remains unmarried, she will work as does the man for 40 years.

Statistics also point out that the great majority of females reaching the age of 19 or 20 are decidedly ill-prepared for anything other than non-skilled jobs. They are not prepared for non-skilled jobs either, but that's what they wind up doing because they lack the necessary training and education to do anything else.

The important factor for each of you to consider is that you

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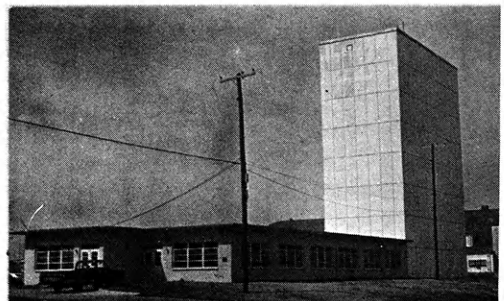


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Have you considered Vo-Tech?

(Continued from page 5)

must develop a salable skill if you wish to obtain satisfying employment. Mr. Employer has one thing in mind when you apply for a job. What can you do to make him money? Don't short change yourself by not having something to offer. Benjamin Franklin once said, "He who hath a trade hath an estate."

So you know what you want to be, now what do you do? Many factors now enter into the picture. Are you going to enter the professions, a skill area, social work, or some other field? Does the job you want require a college degree, special training, a special degree of skill? After you answer these and other questions you need to look for an institution that will furnish you the training you desire. Let's take a look at an institution you might not have considered, an area vocational-technical school.

There are 14 area vocational-technical schools in the state of Kansas offering a wide degree of training. The 14 schools are located across Kansas in such a

manner that you may be within commuting distance of one. (75 per cent of all Kansas high school youth live within 30 miles of an area school.) No one should be geographically disadvantaged regardless of where they live. Courses range from computer programming to licensed practical nursing, from heavy equipment operation to cosmetology, from truck driving to marine mechanics. The list goes on and on. A list of course offerings can be obtained from your counselor or from the Vocational Division of the State Department of Education, 120 East 10th Street, Topeka, Kansas 66612.

Is money a problem? Under present legislation, any person who is a resident of Kansas, 16 years of age and older, and can profit from the instruction, may attend an area vocational-technical school and have his tuition paid by the unified school district in which he resides. The only expenses involved are fees, special tools (if required), and living expenses. Many students work part-time to pay for their expenses.

What is the difference be-

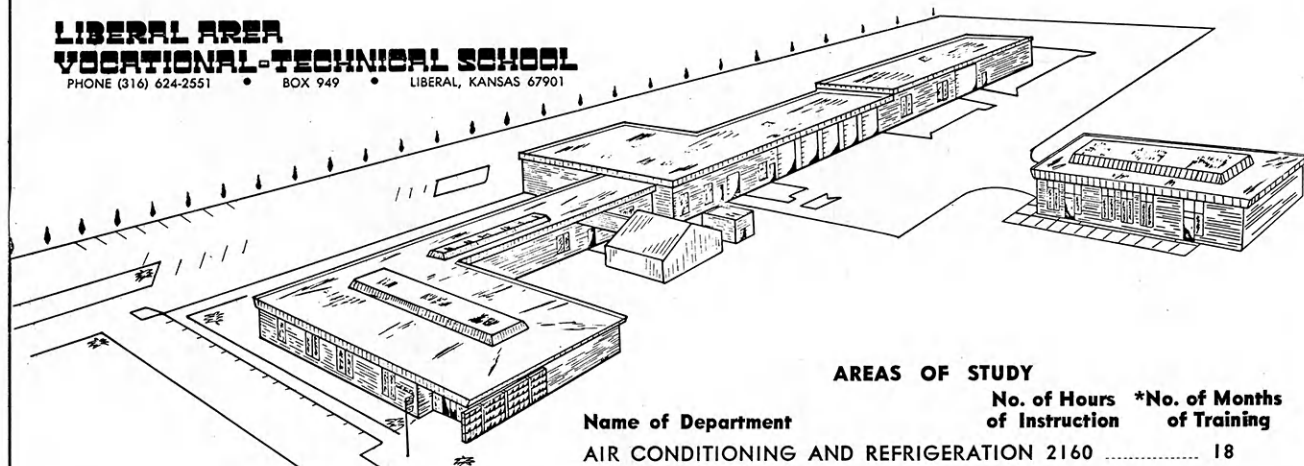
tween an area vocational-technical school and other institutions of higher learning? This question is probably on the mind of every person who is not familiar with a voc-tech school. Basically, the main difference is that a voc-tech school concentrates all its course work on that area in which the training is given. For example, if a student wishes to be an auto mechanic, he will spend the entire time studying auto mechanics. Related material, such as employability training, will be presented at various times throughout the course as part of the training. The student does not take English, math, or history as a separate course. Any math or English that is needed to be an auto mechanic will be taught as part of the training.

A feature that you will be guaranteed only from a voc-tech school is that you will be taught by an instructor who has a minimum of 4,000 hours of practical work experience in the field in which he is teaching. This means that the instructor knows the

(Continued on page 7)

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AUTO MECHANICS	2160	18
AUTOMOTIVE MACHINE SHOP	1080	9
BRICKLAYING	1080	9
CARPENTRY AND CABINETMAKING	2160	18
DRAFTING TECHNOLOGY	2160	18
BUSINESS MANAGEMENT	1080	9
INSTRUMENTATION TECHNOLOGY	2160	18
MACHINE SHOP TECHNOLOGY	1080	9
POWER MECHANICS (DIESEL)	2160	18
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* Based on 6 hours per day, 5 days per week.

Jobs for women

The number of jobs for women in the labor force is increasing faster than the number of jobs for men, particularly jobs in the professions, in skilled occupations, and in service fields. New jobs will be found in gov-

ernment at federal, state and local levels, in education, counseling and health. Jobs in other service fields, such as food preparation, are also increasing.

Here are some opportunities listed by the Labor Department's revision of "Job Horizons for College Women."

Engineering—Qualified wom-

en can find many opportunities.

Physics—For women it is research and development, ranging from computer technology to nuclear energy, in teaching, and in technical writing.

Chemistry—Best opportunities are with drug manufacturers, hospitals and in government.

Mathematics—High paying jobs for women are plentiful in universities, industry, insurance firms, and government.

Pharmacy—Demand for women pharmacists is growing, especially in hospitals, in pharmaceutical manufacturing firms, and in drug stores.

Medicine—Women now are accepted at all U. S. medical schools. Physicians are in short supply.

Computer programming and systems analysis—The spread of computers throughout the world, coupled with the widening use of data processing for planning, budgeting, and problem-solving, will mean many new jobs for women and men.

Statistics—Jobs are promising in teaching and in research.

Economics—This field continues to grow. Chances for women are best in industry, universities, and government.

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Have you considered Vo-Tech?

(Continued from page 6)

type of training you need to be employed in your chosen field.

Some students enroll in courses that include on-the-job training as part of the schooling. This type of course allows you to work in your chosen field while training and receive credit for work experience. A high degree of placement after graduation is a characteristic of this type of program.

Students should understand that college credit is not given for course completion. However, some colleges do recognize the training and will give advance standing toward a degree. If a college degree is your goal, you should attend a two-year or four-year college.

If you have not visited an area vocational-technical school, you owe it to yourself to do so. Advanced training is not out of the reach of anyone. Remember, what do you have to offer Mr. Employer?

New school for farm managers

A new school to train farm and ranch managers is in its first year of operation on a 1,125 acre campus near Coffeyville. Called the Institute of Farm and Ranch Management, it is part of the Southeast Kansas Vocational-Technical School system.

A three-year course is offered. Basic agricultural production is covered the first year, including beef production, cow and calf management, feedlot operation, swine production, crops, and soils.

The second year emphasizes training to prepare students to operate farms and ranches for absentee owners. Courses include accounting, use of credit, investment, personnel management, agricultural engineering, production promotion, and advertising.

Specialization, feedlot manage-

ment, and other subjects offered the third year will prepare students to be agricultural specialists with larger operations.

One of the largest pasture renovation studies ever attempted in Kansas will be initiated this spring. The class in design and construction planned the modern bull performance testing station, cattle evaluation center, feedlot, and swine farrowing house.

Harold Thexton, president of the Coffeyville chapter of the Kansas Agri-Business Students Association, reports, "This year we have 31 young men attending the Institute of Farm and Ranch Management. Incidentally, all of us are past 4-H members, although this is not a requirement for enrollment."

Prospective enrollees should

write the Area Vocational-Technical School at 610 Washington Street, Coffeyville, or to the principal, Clayton Adair, at Route 2, Box 219, Pittsburg.

Another school with an agribusiness program is Cowley County Community Junior College and Area Vocational-Technical School. Courses are offered on feeds, livestock rations, fertilizers, grain, crops and agriculture chemicals. For mid-management preparation, business courses in accounting, sales, public relations, marketing and distribution of goods are included.

In addition to classwork agribusiness students use the industry as a laboratory. On-the-job training has students spend 36 weeks in four nine-week blocks working in the industry. This work experience lets students learn the industries from the ground up and helps them make practical application of their class work.

Students learn to operate modern feed mills, mix rations, deliver products to customers, sell to farmers, blend fertilizers, apply fertilizers and chemicals, handle animal health products, work in grain handling and storage and other areas in the industry. Students learn how a business operates and they participate in that operation.

A number of careers are available for graduates as potential mid-management employees in livestock, feed, grain, fertilizer, seed, and agricultural chemical industries.

Jawaharlal Nehru, the late prime minister of India, once said, "When the cards are dealt and you pick up your hand, there's nothing you can do except play it out. But the way you play it out is up to you!"

Take a long appraising look at yourself. And take a good look at what you want to do and what you want to be and then DO IT and BE IT.

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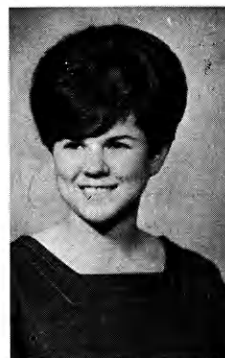
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You can help *Improve the human condition*

Cheri Avery Owen, who wrote this article about careers in the mental health field, is no stranger to the pages of the Kansas 4-H Journal. As a young 4-H'er she was reporter of Magic 4-H Club, Riley County, and many of her items appeared in the Journal. Then she was consecutively advertising salesman, layout editor, and business manager for 4-H in Review when she was a student at Kansas State University.

After graduating from Kansas State, Cheri earned a master's degree in mental health information from Syracuse University, Syracuse, New York. Now Cheri and her husband, Robert Owen, live in Pennsylvania, where he is an architect, and she is director of a new program in mental health information in Philadelphia.



By Cheri A. Owen

As self-regulating machines take over more of the tasks of production, our society is expanding its social services. Young people can look forward to stimulating and creative work to enrich their lives as well as the lives of others.

Among the expanding social services are those devoted to improving mental health. They are in urgent need of manpower: more professionals and related workers to help people ward off or heal emotional breakdowns; more scientists and assistants to extend our knowledge of human beings.

Opportunities in the mental health field range from jobs requiring no more than a high school education to those demanding at least eight years training beyond college. To explain what is involved in preparing for these important human service careers, brief descriptions of many of them are offered below.

The **psychiatrist** must go through college, four years of medical school and a year's internship in a general hospital. He then completes three years as a resident in training in a psychiatric teaching hospital (four years for child psychiatrists). Although the one-to-one treatment approach has been favored in the past, many psychiatrists are training in community psychiatry, including courses in public health and mental health consultation, in order to reach more people.

The **clinical psychologist** is trained in counseling and therapy as well as in testing for help in diagnosing problems. After college, he must complete one year as an intern in a psychiatric treatment setting. Students in psychology may also prepare for careers as industrial, experimental or community psychologists.

Psychiatric social workers, although they are trained from a different approach, also are therapists and counselors. Following an undergraduate background in psychology and sociology, they complete a two-year master's degree course, studying human development and behavior and the effects of environment on people.

The **psychiatric nurse** may work in an in-patient setting or in the community. In the hospital, the nurse looks after patients' physical needs but also works for therapeutic goals which have been decided with the psychiatrist. Psychiatric nurses in the community may work with public health nurses, teachers or state and local health departments in programs for better health. They may work with aftercare, helping patients adjust to their life situation after hospitalization, or they may teach groups of prospective parents. To become a psychiatric nurse, the basic preparation in nursing for all R.N.s is required, which usually includes a four-year college program.

Among the many supplementary workers in mental health,

the **occupational therapist** is the one who supervises patients in "curing by doing." After the psychiatrist, psychologist or social worker has recommended goals for each patient, the O.T. takes over, instructs the patients in various activities, and reports progress. Occupational therapy training consists of a four-year college program in biological and physical sciences, English, psychology, sociology, arts and crafts plus nine to ten months of supervised practice. People are also needed for therapy such as teaching music, art, dance, or recreation to disturbed patients.

The **psychiatric aide** has a vital position in working with patients. While aides carry out chores for physical needs of patients, they also may contribute to a patient's recovery by natural gifts of warmth and understanding. To secure a job as an aide, it is best to have at least a high school education. Aides are given about 75 hours in-service training by nurse educators and instructed in simple nursing procedures, and in recognizing signs of physical and mental illness and how to react to them.

In universities, schools of nursing and social work and in hospitals and clinics **teachers** trained in mental health disciplines are in great demand. They are also needed to help hospitalized youth keep up with their class-work.

Other branches of education/information have also begun

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Improve the human condition

(Continued from page 9)

opening up. The **family life educator**, with a background in counseling and family and child development in college, works with people to help them strengthen their inner resources and prevent possible emotional problems. The **information/education specialists**, with training in journalism, public relations, and mental health, work largely with the mass media or newspaper, magazine, radio, and television. They inform the public of mental health services, guide them in recognizing problems, and suggest healthy reactions to problems and ways to seek help. Less training is required for mental health technicians who assist in these activities. Many junior colleges offer two-year programs for such careers.

Research is an immense field in mental health. The questions are endless: How are people affected emotionally by forced relocation in urban renewal? Are there hereditary or biological

factors in mental illness? Apart from the fascination of exploring such questions, answers which would contribute to mankind's health and happiness are needed. College training in mathematics and science are important requirements in this area.

What can you do about a mental health career now? In high school, ask the college you wish to enter about courses required for admission in your chosen major. Develop your skill in communication as it will be one of your basic tools—in relating to patients, in staff conferences, in writing reports. Try volunteer or summer work in a mental health area to see if it complements your abilities and personality. When you are making your decision about a career choice, keep in mind that most important in the mental health field, you must enjoy working with people and have a desire to help improve the human condition. It offers you great challenge.

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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See listing page 24

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Career opportunities in the FBI

By John Edgar Hoover, Director
Federal Bureau of Investigation
United States Department of Justice

I am pleased to have been asked to inform the readers of the 4-H Journal concerning the opportunities available for young people interested in a career in the FBI.

Growing lawlessness in the Nation today places a heavy burden on law enforcement. The FBI, due to the ever-increasing responsibilities occasioned by newly enacted laws as well as the rise in criminal activities, has a current need for additional personnel, both special agent and clerical.

Those young people who are willing to devote their lives to an ideal, who hold material rewards to be of lesser value, are eminently suited to a career in law enforcement. Such a career demands sacrifices, long hours, hard work, and sometimes great anonymity. Those who voluntarily and with open eyes choose such a career, however, are rewarded by the gratification of knowing they have contributed substantially toward the well-being and safety of their community and fellow citizens.

For such as these, the Federal Bureau of Investigation affords great career opportunities. Some of the positions, of course, require a college degree; some, a high school education.

The actual investigating of crimes within the FBI's jurisdiction is done by special agents, and this is a position open to men only. Applicants must be from ages 23 through 40. In addition, the special agent applicant must be a graduate of a resident law school, or of a four-year college with a major in accounting and three years' experience in this field. At present, we are considering college graduates with a major in physical science, fluency in a language for which the Bureau has need, or three years of specialized experience of a professional, executive, or complex investigative nature. An excellent physical condition and capability of strenuous physical exertion are also requirements.

Working closely with our special agent force are the scientific, technical, and clerical employees of the FBI. Most of these

positions are open to both men and women. Applicants for these positions must also pass an investigation of loyalty, reputation and character, along with a physical examination. They must be 16 years old, with no upper age limit. No previous experience is needed in most instances since employees receive on-the-job training.

There is considerable stenographic and typing work to be performed. To qualify, stenographers must be able to take shorthand at 80 words per minute, type 45 words per minute, and pass vocabulary and spelling tests. The position of typist requires passing a spelling and 45-words-per-minute typing test. Typists (those assigned to Washington, D.C.) with some shorthand training can attend FBI shorthand classes at no expense in order to qualify for the stenographic position.

Processing the tremendous quantities of correspondence and fingerprint records also requires filing clerks and classifiers who, if they demonstrate ability and initiative, can advance to various technical and supervisory duties.

In addition, we employ translators who are thoroughly qualified in more than one foreign language (at least three languages are required) and photographers who must have had at least three years' experience in the use of camera equipment and developing work. There are also openings for radio maintenance technicians (males only) to operate and maintain the equipment used in the nationwide FBI radio communications network.

Science plays a vital role in the FBI's fight against crime, and our laboratory is the largest of its kind in the world. Here chemists, physicists, metallurgists, document examiners, and other scientific examiners analyze evidence from crime scenes sent in by law enforcement agencies across the country. While special agents are in charge of these examinations, we employ laboratory aids to assist in these functions. These aids must have some scientific background, and the higher paid positions in this field require degrees in science.

The FBI is always looking for well-qualified employees, both male and female, who are sincerely interested in public service and are willing to give their best in their future careers. If you are qualified, the FBI will be happy to have you consider employment with us.

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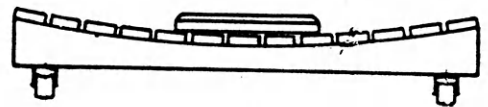
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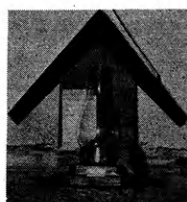
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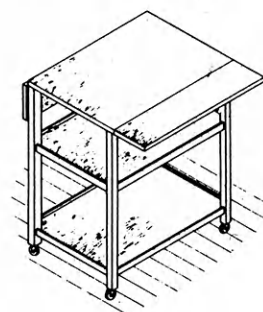
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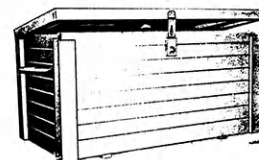
Book Rack

End Table

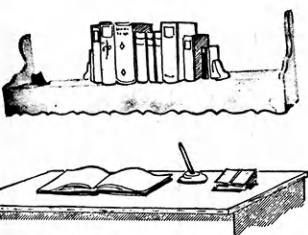
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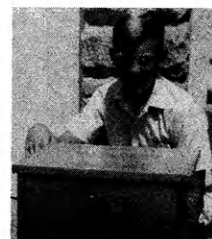
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WANTED: Workers in dentistry

By R. R. Drisko, D.D.S., M.M.S.

School of Dentistry

University of Missouri-Kansas City

There has never been a better time for a young man or woman to consider preparation for a career in dentistry. The growth of the American population coupled with the increased demand for better oral health care has created an unprecedented climate for growth within the dental profession. Today, more than ever before, more dentists are needed in practice, in research, in teaching, and in other professional activities. The rewards are ample. Nearly two-thirds of those in the dental profession earn net incomes of more than \$15,000 per year. About one-quarter report a net income of more than \$25,000, and it is not unusual for the specialist who has received advanced education and experience beyond the dental degree to earn more than \$35,000 per year.

In addition to financial rewards, the dentist is a respected member of society and is looked upon for community leadership.

A basic four-year program in a dental college brings the degree of Doctor of Dental Surgery. The graduate is prepared to go at once into a career in dentistry. If he chooses to remain in school or return to school later for graduate work, he may specialize in such fields as orthodontics or oral surgery.

Dental hygiene is a rapidly growing and increasingly dynamic profession for qualified young women and men who wish to participate as members of the dental health team. Service to mankind is the primary purpose of the health professions and the dental hygienist may accomplish this objective through a variety of challenging and rewarding experiences.

The dental hygienist is the only dental health team member other than the dentist licensed to provide services directly to the patient while working under the supervision of a licensed dentist. Responsibilities of the dental hygienist are preventive in nature. Two to four years of college training are required for eligibility for licensure.

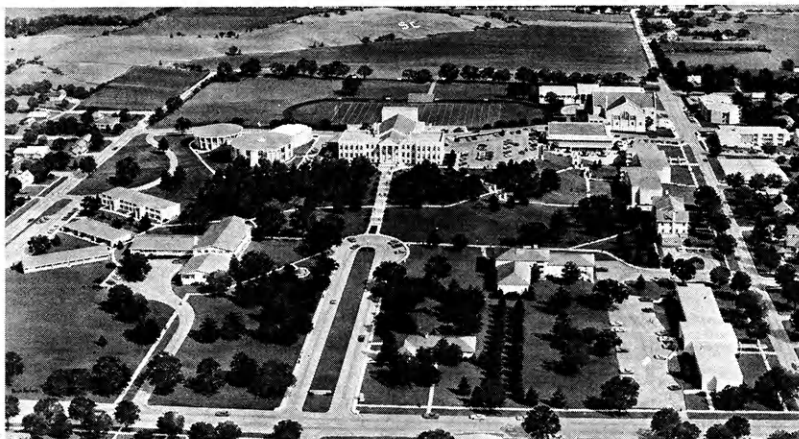
Many and varied opportunities are available for graduates of a four-year dental hygiene program. They may work in dental offices, dental hygiene schools, public or private schools, hospitals and clinics, community, state, and federal services, special schools for the handicapped, research, industry, foreign countries, peace corps, private health care programs, and graduate studies in dental hygiene education.

Dental laboratory technology concerns itself with the construction of prosthetic appliances for the replacement of natural teeth which have been lost either by disease or accident.

The dental technician's relationship to the dentist is somewhat similar to that of the optician to the eye specialist. He is an important member of the dental health team, and his skill, competency, and knowledge are invaluable to modern dental practice. The dental technician works under the guidance of and on the instructions of the dentist, permitting the professional man to devote more of his time to chair-side patient's dental health care.

A career in dental laboratory technology may begin with on-the-job training in a commercial dental laboratory or with a formal two-year training program. Another occupation in this field is that of the dental assistant in the dentist's office. Many assistants are trained on the job; others are certified after a term in a vocational-technical school.

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Is college the place for you?

By Bruce L. Gildseth and
Marilyn B. Trotter
Center for Student Development
Kansas State University

Why are you thinking of going to college? Do you really want to go, or do you feel like you are being forced into it because most of your classmates are going, because your parents want you to, or because you'll be drafted if you don't? Undoubtedly, you feel pressure to develop your skills so you can better compete in the job market. But college isn't the only way to develop skills. For students who really don't know why they are going to college, there may be better alternatives.

Perhaps you need to ask yourself if your parents would really be disappointed if you didn't want to go to college. It's possible you might be using them as an excuse for not making up your mind about what you want.

If your only reason for going to college is to delay being drafted, will college be any better than the service? College is a valuable and enjoyable experience for students who want to be there, but for those who don't it can be a drag.

In a recent national study students stated a number of reasons why they were going to college. The largest percentage (49 per cent) said they attended to prepare for a vocation¹. Twenty-six per cent listed the pursuit of ideas as their main reason. They were seeking to increase their general understanding and problem solving skills. Thirteen per cent wanted to make friends and to develop leadership and social skills. The final 12 per cent went for non-conventional reasons. They may have been marking time because there was nothing else they wanted to do, or they may have been waiting to be drafted or to get married². Each of these reasons is valid. The point, however, is that the decision to go to college will be much more meaningful if you have stopped to think why you want to attend in the first place.

Several other factors are to be considered as you choose which college to attend. Individual differences need to be taken into

account because some colleges will be better suited for you than others³. A large university will be more stimulating for some students because of the greater variety of human and material resources available. For others the same university will seem more cold, impersonal, and frightening than a community college or a small four-year college.

The predominant "personality" of the student body may be even more important than its size. How much emphasis is placed on social activities? Are the students conservative or liberal? Are they religious or non-religious? Which socio-economic background do the majority of them come from? Diversity and stimulation are vital for learning to occur but too much at once can leave a student feeling confused and left out.

Your choice of vocation is another important factor to consider in choosing a college. If you are fairly definite about your future vocation, does the college you are considering have a

strong major in that field of study? Many students start college with no specific vocational goal in mind. Remember, 50 per cent of college students change majors at least once before they graduate.⁴ If you are undecided, you will want to consider a college that has a variety of courses and a curriculum that allows you room to sample a diversity of disciplines.

Unfortunately, cost is also a consideration. Private colleges are generally more expensive than state supported ones. Out-of-state tuition is usually more than in-state, and living away from home costs more than living at home.

Once you have chosen your college, cost, peer relationships, and college regulations needs to be considered as you decide where to live. Sharing an apartment may be cheaper than living in a residence hall or a fraternity or sorority, but some colleges require that all freshmen live in dormitories. Other colleges have no housing facilities.

(Continued on page 16)

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To qualify as a trooper, the applicant must be 22 years old, have a high school diploma or equivalent, be in good physical condition, be 5 feet 8 inches tall, have good moral character, and have a valid Kansas driver's license.

Application forms may be obtained from the Personnel Division, State Department of Administration, 801 Harrison Street, Topeka, or from the Kansas Highway Patrol, State Office Building, Topeka, or from any officer or trooper of the Kansas Highway Patrol in the field. Applicants must take a civil service examination.

At present, 295 officers and men are highway patrolmen in addition to the superintendent and assistant superintendent. Twenty-six additional highway patrolmen are assigned to the Kansas Turnpike.

In addition to employment opportunities as troopers, the Patrol also employs communications personnel who operate radios and the teletype system, and clerical personnel in division offices and in the headquarters office.

Is college the place for you?

(Continued from page 15)

Peers are one of the most influential aspects of a college student's life.⁵ The living unit is the most important place for peer relationships to develop and flourish. A small living unit such as a sorority or fraternity is a ready made group to identify with because of the commonality of membership. On the other hand, the greater variety of personality types in a larger living unit can be more stimulating and offer a wider range of friendships.

Is going to college for you? Assuming a simple "yes" to that question might be taking the easy way out. The question is really "why" go to college. Once you have satisfactorily answered that question the next question becomes which college is best suited for you. Remember it's **your** future you are determining.

¹American College Testing Program. 1969 Class Profile Report. Iowa City, Iowa: American College Testing Program, 1969.

²Kemp, Phyllis E., and Carroll E. Kennedy. Your College Student. Manhattan, Kansas: Kansas State University Cooperative Extension Service, November, 1968.

³McConnell, T. R. A General Pattern for American Public Higher Education. New York, New York: McGraw-Hill Book Company, Inc., 1962.

⁴Danskin, David G. An Introduction to Kansas State University Students. Manhattan, Kansas: Kansas State University Student Counseling Center. September, 1964.

⁵Feldman, Kenneth A. and Theodore M. Newcomb. The Impact of College on Students. San Francisco: Jossey-Boss Inc., 1969. Pp. 258-269.



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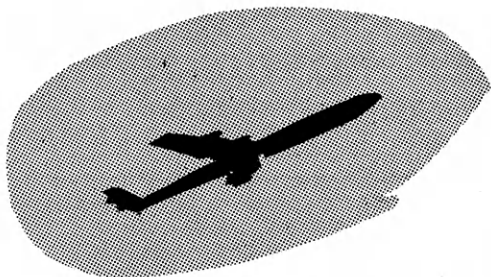
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Up in the air about Aviation and astronautics

By Joan Sommerfeld

Reprinted in part from
the National 4-H News

Aviation and astronautics are expanding industries that in half a century have created jobs for approximately one million people. This is quite meaningful for several reasons. The first is that aircraft, rockets, missiles, space vehicles, and all accessory equipment illustrate practical applications of arts, crafts, sciences, and several other academic areas. Second, progress in aviation and astronautics has significantly changed traditional concepts of political geography, international economics, and other social sciences important in human affairs. Third, the aerospace age offers diversified and stimulating career opportunities,

civil and military, for young men and young women with the appropriate training. And potential for this kind of training program is obvious.

When we look at growth occurring through the years in the aerospace industry, it becomes quite evident that we need to look closer at the kinds of programs now available for our young people, and try to develop their interests, not only in aerospace, but in related industries. We need to do this so they might become more productive future citizens. Education has felt the impact of the aerospace progress for two basic reasons. First, education must prepare youth to fill aerospace jobs requiring highly technical skills. Therefore it must modify its program to the degree that aerospace age devel-

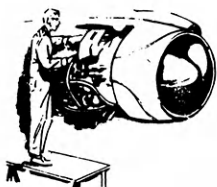
opments affect each curricular area. We find public school, trade school, and college programs in aerospace education which qualify young men and women for careers in aviation-astronautics, and we also find public and private elementary and secondary schools recognizing the influence of aerospace progress on general education.

A need for learning opportunities in aerospace is evident, as demonstrated by a survey recently completed by the Department of Commerce which shows that between now and 1980:

- Airlines will need 39,000 air crew members.
- Airlines and general aviation will need 225,000 airplane mechanics (schools are now

(Continued on page 18)

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Aviation and astronautics—

(Continued from page 17)

turning out 7,000 mechanics per year).

■ General aviation will need 300,000 pilots to handle commercial ventures.

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(Continued on page 26)

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Public relations jobs increasing

The number of public relations workers in recent years has probably grown at a faster rate than any other management service. In fact, three out of four of the top 300 companies in the country have public relations departments compared with one out of 50 thirty years ago.

New shareholders, new customers, new publics have created an explosive need for communication and the use of more sophisticated communications techniques. To meet this need there are growing employment opportunities in public relations for both men and an increasing number of women.

Public relations has evolved into a many faceted field encompassing both publicity and non-publicity functions. Qualifications for the field include imagination, verbal skills, extroverted traits, sensitivity to other people, organizing skill, and above all, responsible judgment.

Monetary compensation is superior to a number of other fields. The work provides an enjoyable balance between "desk

work" and face-to-face contact with others, and promises stimulation and challenge for those

who enjoy working with new ideas and coping with novel situations.



CAPS OFF TO
KANSAS 4-H

FROM

KANSAS PEPSI BOTTLERS ASSOC.

Advantages of junior college

By Raymond A. Slattery

Executive Secretary

Kansas Association of Public
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Each of the state's 19 public junior colleges is available to any high school graduate who can benefit from attending a public junior college. Each catalogue of these schools mentions

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(Continued on page 21)

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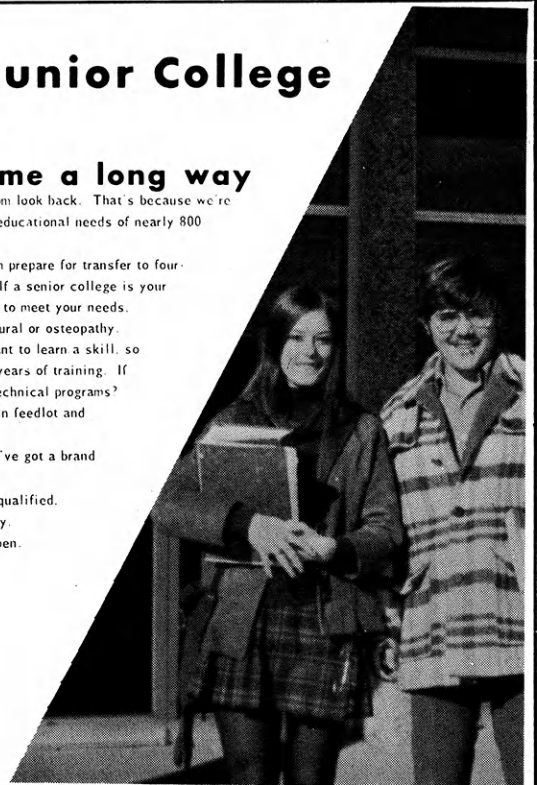
We're helping many of them prepare for transfer to four-year colleges and universities. If a senior college is your aim, we've probably got a program to meet your needs, whether your career goal is agricultural or osteopathy.

On the other hand, maybe you want to learn a skill, so that you can go to work after just two years of training. If so, why not investigate our vocational-technical programs?

We've got 17 of them, including new ones in feedlot and irrigation technology.

In addition to some brand new courses, we've got a brand new campus.

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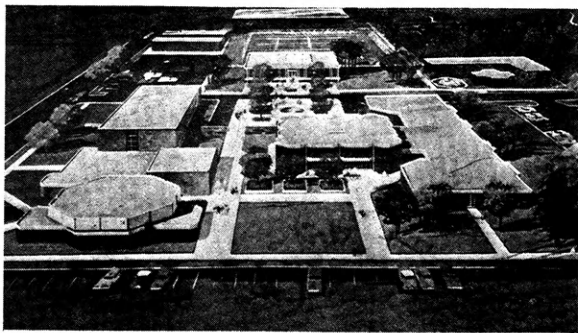
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FOR ADDITIONAL INFORMATION WRITE: Charles D. Michael, Registrar—Box 977—Garden City Community Junior College—Garden City, Kansas 67846

Coffeyville Community Junior College

Unexcelled Learning Opportunities!



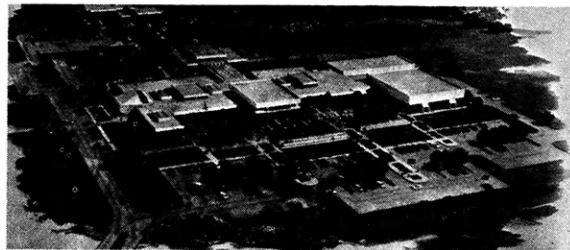
Recently Moved into Expanded
Facilities

Write or Visit the Two-Year College
"on the move"

SOMETHING FOR EVERYONE

Coffeyville Community Junior College
COFFEYVILLE, KANSAS 67337

ALLEN COUNTY COMMUNITY JUNIOR COLLEGE



THIS IS ACCJC

The Community Junior College with YOU in its future.

Fully accredited by the Kansas Department of Public Instruction. Two-year Associate of Arts Degree. ACCJC is a two year public community junior college—a college mindful of, and responsive to, the needs of youth, and of the community.

ACCJC offers a low cost—high quality education in:

- GENERAL EDUCATION
- COLLEGE TRANSFER
- VOCATIONAL-TECHNICAL
- COMMUNITY SERVICES

Write: Director of Admissions
Allen County Community Junior College
Iola, Kansas 66749
Phone 365-5116

Kansas City Kansas COMMUNITY JUNIOR COLLEGE

Fully accredited by the North Central Association of Colleges and Secondary Schools and by the Kansas Department of Public Instruction.

CURRICULAR AREAS:

Pre-Professional
Liberal Arts
Vocational-Technical
Adult Basic Programs

Semester plan with extended day and evening classes as well as a six weeks summer program.

For more specific information, contact the:

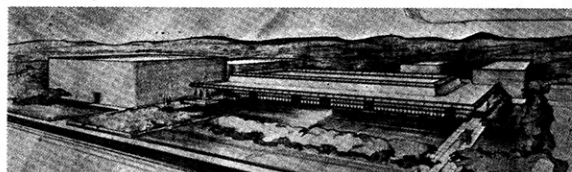
Director of Admissions
Kansas City Kansas Community
Junior College

824 State Ave. 66101

Phone DR 1-4460

Fort Scott Community Junior College

2108 S. HORTON FORT SCOTT, KANSAS 66701
Established 1919 — First Junior College in Kansas



New 132 Acre Campus — Facilities Completed 1967

The College is dedicated to meeting the educational needs of people in the county and surrounding areas.

We offer two years of college work specially suited to those preparing for junior year of college or university, and those planning to enter the world of work.

Tuition is \$4.00 per credit hour for Kansas students. Write to REGISTRAR for catalog and financial assistance information.

Advantages of junior college—

(Continued from page 19)

7. An adjustment period by attending a small college before proceeding to a large university;

8. Terminal courses which prepare directly for employment within the community;

9. Full college credit for students planning to transfer to a four-year college or university.

There are people within the Kansas community junior colleges who have expressed dissatisfaction with the simplicity of the advantages listed above. Those students, trustees, instructors and administrators want people to know of still more advantages to joining them on a community junior college campus.

In people to people language, the folks in the colleges want to share these additional advantages of junior colleges:

Students say:

"Upperclassmen are great in helping the freshman adjust to college. If a freshman does not know what to do in certain situations, these is always a sophomore who will help him out."

"Greater possibility for tete-a-tete confrontations with instructors. Because of small classes the student can actually talk with instructors, not aids, and obtain additional help."

"There is not very much violence, if any at all, at a junior college. Many students come to one because it is safer."

"Kansas municipal junior colleges are close to cultural centers."

"Since junior college student bodies are comprised of all age groups, more so than in large institutions, the junior college atmosphere is a conglomerate of attitudes and viewpoints."

Trustees say:

"Community interest and involvement with the junior college is personal and intense."

"A person can take vocational and technical courses in a junior college without being considered a second class student."

Staff says:

"The junior college nurtures a unity of spirit between students, staff and the community."

"The junior college gives students a second chance, particularly when the student has been an early goofer, or where he is a

late bloomer and has matured to do good work."

"Individual assistance is the rule rather than the exception. Students are offered additional assistance rather than waited on to ask for aid."

"Junior college students have more opportunity for local employment while attending college."

"Metropolitan junior colleges provide a wider range of work experiences to working students

BUTLER COUNTY COMMUNITY JUNIOR COLLEGE

"A Comprehensive Community College"

Academic Transfer — Terminal — Vocational Technical

New campus; fully air-conditioned; full accreditation.

A Truly Comprehensive Community Junior College
Accredited by North Central Association
of Colleges and Secondary Schools.

For Information Apply:

Director of Admissions
Butler County Community Junior College
El Dorado, Kansas 67042

HUTCHINSON COMMUNITY JUNIOR COLLEGE

HUTCHINSON, KANSAS

Established in 1928

A Comprehensive Junior College Offering Quality Education At Low Cost

- 4-YEAR COLLEGE PARALLEL PROGRAMS
- TECHNICAL EDUCATION
- OCCUPATIONAL TRAINING

Day College • Evening College • Summer School

Fully Accredited by State Board of Education and North
Central Association of Colleges and Secondary Schools.

AIR-CONDITIONED DORMITORIES

Write:

Director of Admissions
Hutchinson Community Junior College
Hutchinson, Kansas 67501

"EDUCATIONAL CENTER OF NORTHWEST KANSAS"

Colby Community College

Colby, Kansas

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Check the class of service desired; otherwise this message will be sent as a fast telegram	
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DAY LETTER	<input type="checkbox"/>
NIGHT LETTER	<input type="checkbox"/>

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**WESTERN UNION
TELEGRAM**

W. P. MARSHALL, PRESIDENT

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise the message will be sent at the full rate	
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LETTER TELEGRAM	<input type="checkbox"/>
SHORE-SHIP	<input type="checkbox"/>

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED
	PD.		Colby Community College	1971

Send the following message, subject to the terms on back hereof, which are hereby agreed to

Prospective College Students

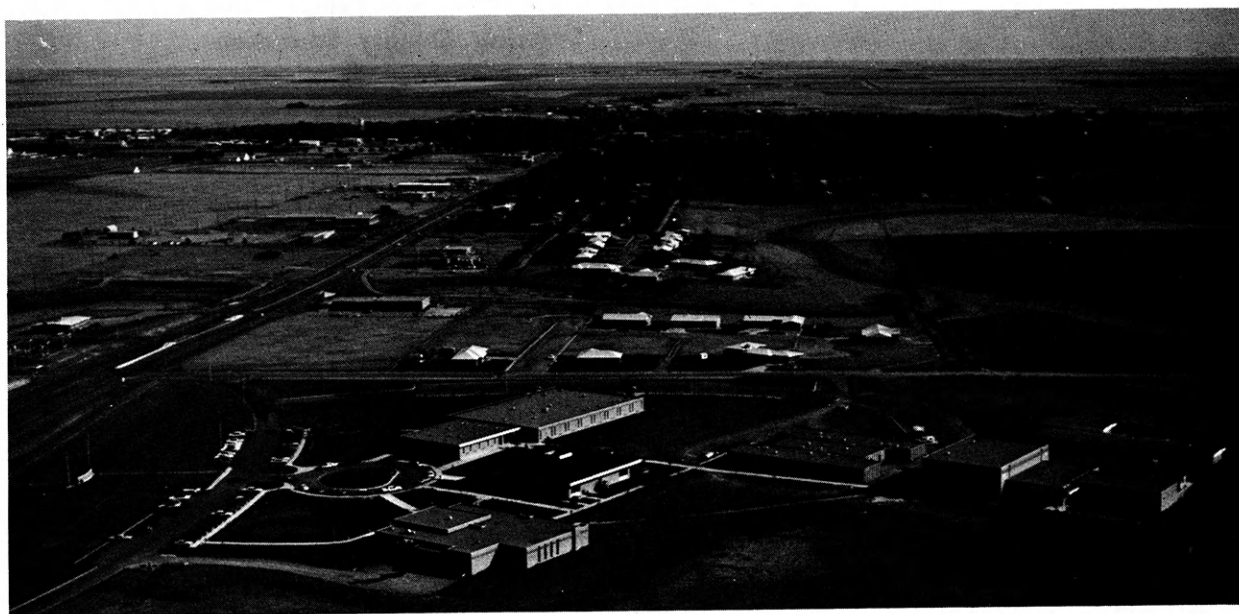
Prospective Student
Anywhere, Kansas

New and Growing Programs have made Colby Community College the most talked about two-year college in Kansas. Write to the Registrar, Colby Community College, Colby, Kansas 67701 for further details.

Robert Burnett
Dean of Admissions and Registrar
1255 South Range
Colby, Kansas 67701

RB/jr

NEW and GROWING Programs include *Animal Hospital Technology
*Law Enforcement *One-and two-year Secretarial *Fine Arts
*Practical Nurse Education *Meat Inspection Technology
*Feedlot Technology



KANSAS TWO-YEAR COLLEGES

Public Community Junior Colleges

WRITE FOR INFORMATION TO

(Equated Full-Time Enrollment)

Tuition Per Sem. (Kans. Res.)

Room & Board Per Sem.

On Campus Housing Capacity

Allen County Community Jr. College	Iola	575	\$4 credit hr.	\$375	96	Registrar, Allen County Community Jr. College, 300 E. Jackson, Iola, Kans. 66749.
Barton County Community Jr. College	Great Bend	853	\$6 sem. hr.	\$420		Director of Admissions, Barton County Comm. Jr. College, Great Bend, Kans. 67530.
Butler County Community Jr. College	El Dorado	1,474	\$4 sem. hr.	\$350	56 men	Leonard McKinney, Registrar, Butler County Community Jr. College, El Dorado, Kans. 67042.
Cloud County Community Jr. College	Concordia	516	\$4 hour	\$400-\$425	56 women	James E. Douglass, Director of Admissions and Registrar, Cloud County Community Jr. College, Concordia, Kans. 66901.
Coffeyville Community Jr. College	Coffeyville	701	\$4 credit hr.		50 women	Coffeyville Community Jr. College, Coffeyville, Kans. 67337.
Colby Community College	Colby	799	\$5 credit hr.	\$410	40 men	Robert Burnett, Dean of Admissions, Colby Community College, Colby, Kansas, 67701.
Cowley County Community Jr. College & Area Vocational-Technical School	Arkansas City	604	\$5 credit hr.	\$315	80 men	Miss M. M. Williams, Admissions Officer, Cowley County Community Jr. College, Arkansas City, Kans. 67005.
Dodge City Community College	Dodge City	780	\$150 for 8 hrs. or more (including incidental fees)	\$440	120 women	V. James Sherer, Director of Admissions and Records, Dodge City Community College, Dodge City, Kans. 67801.
Fort Scott Community Jr. College	Fort Scott	650	\$4 hour	\$420		Registrar, Fort Scott Community Jr. College, 2108 S. Horton, Fort Scott, Kans. 66701.
Garden City Community Jr. College	Garden City	704	\$6 hour	\$400	60 men	Charles D. Michael, Registrar, Garden City Community Jr. College, Garden City, Kans. 67846.
Highland Community Jr. College	Highland	630	\$4 credit hr.	\$300-\$350	62 women	Douglas L. Fitch, Director of Admissions & Counseling, Highland Community Jr. College, Highland, Kans. 66035.
Hutchinson Community Jr. College	Hutchinson	2,130	\$4 credit hr.	\$349	35 men	Miss Reba Anderson, Director of Admissions, Hutchinson Community Jr. College, Hutchinson, Kans. 67501.
Independence Community Jr. College	Independence	545	\$4 credit hr.		75 women	Director of Admissions, Independence Community Jr. College, Independence, Kans. 67301.
Johnson County Community Jr. College	Shawnee Mission	1,732	\$10 credit hr.		400	Director of Admissions, Johnson County Comm. Jr. College, Shawnee Mission, Kans. 66203.
Kansas City Kansas Community Jr. College	Kansas City	1,540	\$6 sem. hr.			Director of Admissions and Registrar, Kansas City, Kans. Community Jr. College, 824 State Ave., Kansas City, Kans. 66101.
Labette Community Jr. College	Parsons	409	\$4 sem. hr.			Labette Community Jr. College, 200 South 14th St., Parsons, Kans. 67357.
Neosho County Community Jr. College	Chanute	369	\$4 credit hr.	\$350-\$375		Joseph B. Smith, Director of Admissions, Neosho County Community Jr. College, Chanute, Kans. 66720.
Pratt Community Jr. College	Pratt	506	\$4 credit hr.	\$350	48 men	Director of Admissions, Pratt Community Jr. College, Pratt, Kans. 67124.
Seward County Community Jr. College	Liberal	360	\$4 credit hr.	\$350	48 women	Director of Student Services, Seward County College, Liberal, Kans. 67901.

Private Two-Year Colleges

Central College	McPherson	170	\$475	\$425	165	Director of Admissions, Central College, McPherson, Kans. 67460.
Donnelly College	Kansas City, Ks.	445	\$18 sem. hr.			Donnelly College, 1236 Sandusky, Kans. City, Kans. 66102.
Hesston College	Hesston	450	\$545	\$393	550	Director of Admissions, Hesston College, Hesston, Kans. 67062.
Miltonvale Wesleyan College	Miltonvale	165	\$375	\$350	200	Wesley L. Knapp, Director of Admission, Miltonvale Wesleyan College, Miltonvale, Kans. 67466.
St. John's College	Winfield	276	\$240-\$340	\$345	340	Wallace Behrhorst, Admissions Counselor, St. John's College, Winfield, Kansas. 67156.

State Technical Institutes

Kansas Technical Institute	Salina	228	\$135	\$420	400	Director of Admissions, Kansas Technical Institute, Salina, Kansas 67401
Vocational Technical Institute (Kans. State College of Pittsburg)	Pittsburg	275	\$187	\$425	1,130	Leland D. Boone, Director, Vocational Technical Institute, Kans. State College of Pittsburg, Pittsburg, Kansas 66762.

Kansas 4-Year Colleges

School	Location	(Equated Full-Time) Enrollment	Type	Affiliation	Accreditation
Baker University	Baldwin	837	Coed	Methodist	Kansas State Department of Public Instruction; Nat'l. Council for Accred. of Teacher Education; University Senate of the Methodist Church; American Assoc. of Univ. Women*
Benedictine Colleges Mt. St. Scholastica—South Campus St. Benedict's—North Campus	Atchison	1,400	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 Association*
Bethany College	Lindsborg	734	Coed	Lutheran	Kansas State Department of Public Instruction; North Central Regional Assn.*
Bethel College	North Newton	486	Coed	Mennonite	Kansas State Department of Public Instruction; AAUW*
College of Emporia	Emporia	877	Coed	Presbyterian	North Central Regional Assn.; Kansas Department of Public Instruction; American Association of University Women; North Central Regional Assn.*
Fort Hays Kansas State College	Hays	5,580	Coed	State	Nat'l. Council for Accred. of Teacher Education; Nat'l. Ass'n. of Schools of Music; American Association of University Women; North Central Regional Assn.*
Friends University	Wichita	1,025	Coed	Soc. of Friends	Nat'l. Council for Accred. of Teacher Education; Nat'l. Association of Schools of Music*
Kansas State College of Pittsburg	Pittsburg	5,679	Coed	State	Nat'l. Council for Accred. of Teacher Education; Nat'l. Association of Schools of Music; Nat'l. University Extension Association; American Association of Colleges for Teacher Education*
Kansas State Teachers College	Emporia	6,982	Coed	State	Nat'l. Council for Accred. of Teacher Education; Nat'l. Library Association; Nat'l. Association of Schools of Music*
Kansas State University	Manhattan	13,847	Coed	State	Professional Accred.; Arch.; Chem.; Engineering; Journalism; Music; Veterinary Medicine; Nat'l. Council for Accred. of Teacher Education*
Kansas Wesleyan	Salina	641	Coed	Methodist	University Senate of the Methodist Church; AAUW and Kans. State Dept. of Education*
Marymount College	Salina	610	Coed	Catholic	Nat'l. Council for Accred. of Teacher Education; Nat'l. League for Nursing*
McPherson College	McPherson	625	Coed	Brethren	Kansas State Department of Education; Kansas Assn. of Colleges and Universities; North Central Regional Assn.*
Mid-America Nazarene College	Olathe	681	Coed	Nazarene	Correspondent Status*
Ottawa University	Ottawa	825	Coed	Baptist	American Baptist University*
Sacred Heart	Wichita	609	Coed	Catholic	Kansas State Department of Public Instruction*
Saint Mary College	Xavier	600	Women	Catholic	Nat'l. Council for Accred. of Teacher Education; Nat'l. Association of Schools of Music; AAUW and Kans. State Dept. of Education*
Saint Mary of the Plains College	Dodge City	622	Coed	Catholic	Kansas State Department of Public Instruction*
Southwestern College	Winfield	666	Coed	Methodist	Kansas State Department of Public Instruction; Nat'l. Association of Schools of Music*
Sterling College	Sterling	614	Coed	Presbyterian	Kansas State Department of Public Instruction; American Association of University Women*
Tabor College	Hillsboro	424	Coed	Mennonite Brethren	Kansas State Department of Public Instruction*
University of Kansas	Lawrence	19,393	Coed	State	Various National and State Associations in Law, Medicine, Architecture, Pharmacy, Art in Fine Arts, Journalism, Business, Music, Education and Engineering*
Washburn University	Topeka	3,623	Coed	Municipal	Nat'l. Council for Accred. Teacher Education; Association of American Law Schools; American Bar Association; American Association of University Women; Nat'l. Ass'n. of Schools of Music*
Wichita State University	Wichita	9,216	Coed	State	Nat'l. Council for Accred. Teacher Education; Nat'l. Association of Schools of Music; Engineers, Council for Professional Development; American Chemical Society Committee for the Professional Training of Chemists*

* Is accredited by North Central Association of Colleges and Secondary Schools.

Tuition Per Sem.	Room & Board Per Sem.	Estimated total yearly cost for a student (including tuition, room & board, books, supplies & personal expenses)	On Campus Housing Capacity	SCHOLARSHIPS		WRITE FOR INFORMATION TO
				No.	Average Amount	
\$675	\$450	\$2290	800	250	\$500	Director of Admission, Baker University, Baldwin City, Kansas 66006.
650	465	2600	1,490	235	\$700 (renewable for 4 years)	Benedictine Colleges, P. O. Box 421, Atchison, Kans. 66002.
625	425	2100	550	160	\$475	Director of Admissions, Bethany College, Lindsborg 67456.
715	339	2400	600	121	\$400	Office of Admissions, Bethel College, North Newton 67117.
490	476.50	2123	420	40	\$400	Raymond H. Elbert, Director of Admissions, The College of Emporia, Emporia 66801.
188.50	425	1300-1500	1,300	125	\$200	News and Publications Office, Fort Hays Kansas State College, Hays 67602.
375 r quarter	305 per quarter	2200	188	150	\$300	Office of Admissions, Friends University, Wichita 67213.
187	425 \$20 application fee non-refundable	1804	1,600	353	\$225	Office of Admissions, Kansas State College of Pittsburg, Pittsburg 66762.
188	450	1850	1,800	200	\$200	Office of Admissions, Kansas State Teachers College, Emporia, Kansas 66801.
238	450	2000	5,000	750	\$256	Dean of Admissions and Records, Kansas State University Manhattan 66502.
850 (guaranteed Tuition)	450	2900	600	55	\$300-\$500 (per year)	Director of Admissions, Kansas Wesleyan, Salina 67401.
700	500-575	2700	350	185	\$300	Admissions Director, Marymount College, Salina 67401.
535 for 15 hrs.	360-420	1950	714	Unrestricted number available, up to \$675 per year.		Gene Myers, Director of Admission, McPherson College, McPherson 67460.
405	365	1500-1700	459	Available on basis of need		Director of Admissions, Mid-American Nazarene College, Box 1776, Olathe, Kansas 66061.
Single Fee \$2750			768	many available		Dick Powell, Director of Admission, Ottawa University, Ottawa 66067.
600	425	2120	348	80	\$300 per yr.	Director of Admissions, Sacred Heart College, Wichita, Kansas 67213.
475	413	2200	450	70	\$400	Director of Admissions, Saint Mary College, Xavier 66098.
450	430	1900	620	145	\$250 renewable each semester	Director of Admissions, Saint Mary of the Plains College, Dodge City 67801.
700	382	2300	565	280	\$400	Director of Admissions, Southwestern College, Winfield 67156.
650	430	2460	575	Many Available		Director of Admissions, Sterling College, Sterling 67579.
600	450	2300	400	145	\$300	Director of Admissions, Tabor College, Hillsboro, Kansas. 67063.
228.50	450	1650	5,200	1,250	\$350	Office of Admissions & Records, University of Kansas, Lawrence, Kansas 66044
26 per credit hour plus \$25 activity fee per semester	445	1650	339	470	\$250	Registrar and Director of Admissions, Washburn University, Topeka 66621.
222.25 (15 hour load)	450	1600	391	522	\$275	Dean of Admission and Records, Wichita State Univ., Wichita 67208.

Two private residence halls adjacent to campus will accommodate 1,350 students)

Aviation and astronautics—

(Continued from page 18)

■ The FFA will need 100,000 traffic controllers.

There's no limit to what can be studied: astronomy; aerial photography; management and planning of airlines, airports, flight service stations, and control towers; airplane instruments; aerodynamics; map reading; weather (including climatology and meteorology); radio telemetry; optics; human biology in flight; hot air balloons and gliders; aircraft in agriculture; and air transportation of passengers and freight.

Or how about oceanography and marine biology? After all, air-water craft are not unheard of, and will be more important in the future. Or you might be interested in remote sensing satellites. Practical? Well, right now aerial photography from satellites helps predict the corn crop in Indiana.

If one of the careers mentioned here particularly grabs you, spend some time at the library researching it further; go and talk with people in the field. In choosing an occupation, if you don't know a good many of the alternatives and facts about each, how can you be sure you shouldn't have "shopped" longer? Through experience, observation and exploration, you will find your niche.

It could be in aviation or astronautics.

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The Kansas Agricultural Marketing Association is an affiliate of Kansas Farm Bureau. The association is a member of the American Agricultural Marketing Association, an affiliate of the American Farm Bureau Federation.

The Kansas Agricultural Marketing Association is contracting with feedlots, both large and small, for delivery of gain and hay. KAMA is agreeing to supply milo grain from November through June.

Contracts are being completed between each producer and KAMA for the total bushels the producer wishes to contract during any month he selects to deliver. The association is completing a master contract for all producers with the feedlot.

For for information, write to the Kansas Agricultural Marketing Association, 2321 Anderson Avenue, Manhattan, Kansas, 66502.

Kansas Farm Bureau

105 County Farm Bureaus

Working Together

Choose a career in engineering

By Dr. Paul G. Hausman
State Coordinator for Guidance
Engineer's Council for Professional
Development, in cooperation with
The Mid-America Engineering
Guidance Council

Today there is a great cry for cleaner air and water, better housing and transportation, newer and more efficient methods of agriculture. In the past, man has been able to satisfy his needs, but in so doing has complicated his environment. Now and in the future, industry must be able to produce and preserve. With the skills of our best scientists and engineers, industry can do both, and give us all a better world to live in. If we do not improve our environment, it will be because man has misused technology instead of employing it wisely.

To solve our problems, the men who govern and handle the political, social, and financial affairs of our nation must have the help of the professional engineer to understand the technical, engineering, and economic possibilities for solutions to these problems.

In the final analysis these decisions are nearly always political in nature but the technology involved makes it essential that engineers be available to provide information or alternative solutions for what the consequences may be when one decision is contrasted with another. Because these decisions will have such a major impact upon people and will involve sociological, psychological, economic, and legal considerations, tomorrow's engineer must have knowledge in these fields. The survey in industry today shows that 45 per cent of company presidents and boards of directors consist of scientists and engineers.

With the exception of the teaching profession, engineering employs the greatest number of persons, both men and women. More than a million persons are active in all branches of engineering. Job opportunities in engineering have risen more rapidly over the past decade than have opportunities for other vocations, despite abrupt shifts in our never predictable economy. Salaries have continually increased; last year B.S. graduates

received an average starting salary of \$875 per month.

Depending upon their personal and scholastic qualifications, young engineering graduates have a variety of choices in selecting employment, and a choice in the kind of work they will do. Choices such as design, research, development, production, management, operation, or technical sales; choice of their type of employer, including civilian, government, or military programs; choice of their field of engineering or non-engineering; choice of geographical location for employment in the nation or all over the world; a choice of the kind of people with whom they work. Thus many individuals can find significant, personally fulfilling careers in engineering as long as they enjoy mathematical and scientific challenges, possess initiative, and have a strong desire to develop solutions to the combined human and technological problems of tomorrow.

Early planning of your high school program is very important if you are considering engineering as a profession. A strong academic program in high school with emphasis on courses in English, mathematics, chemistry, and physics is recommended as preparation for the study of engineering. Entering freshmen are expected to start the mathematics sequence with calculus and analytical geometry. To qualify for the calculus course a

student must have completed at least 3½ units of mathematics including trigonometry in high school. Where desirable courses are not offered in high school, remedial courses are offered at the universities, but with no credit toward a degree.

Many new fields like biomedical engineering, cryogenics, environmental, nuclear, ocean, space, and urban engineering are in early stages of growth. These and other options are now being offered in existing curricula offered in engineering schools over the nation. It is not necessary for a student to select a field of engineering as an entering freshman.

Students in Kansas will find a variety of engineering programs offered at three state universities: Wichita State University, Kansas State University, and the University of Kansas. These schools offer programs in the areas of aeronautical and aerospace engineering, agricultural engineering, civil, electrical, industrial, mechanical, nuclear, petroleum, and chemical engineering, and engineering physics.

Contact one or all of the state engineering schools or your local junior college regarding programs offered. You may also secure guidance information from your school counselor or by writing to Mid-America Engineering Guidance Council, 111 Marvin Hall, University of Kansas, Lawrence Kansas 66044.



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Sterling College, Sterling Kans. 67579
See listing page 24.

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Study to protect the ecology

How can we preserve our planet so it will continue to be a home where man can live? This may be mankind's most important question for the next 100 years.

Every concerned individual wants to do what he can to reduce pollution, but it is also true that the attack on environmental deterioration needs help from trained persons. At present there is a shortage of trained professionals. A person interested in choosing such a career and becoming one of these professionals may wonder what courses he should take. The answer is, you have a choice of many.

The biological sciences provide a natural starting place for study of ecology. Physical sciences also are relevant.

Engineers have been involved for a long time with the environment. They also work with water-supply and waste-disposal, and they design pollution-control equipment.

Earth scientists study pollution of water and air, as well as many ecological aspects of the earth and its interior.

Water resources and marine sciences are aspects of ecological study.

Then how does man's behavior affect his world? Psychology, government, law, business administration, and urban studies all have their influence on the environment.

Agriculture and conservation are other broad areas much involved with the ecology. Conservationists and foresters are trained to protect, develop, and manage natural resources. Scientists in agricultural fields may specialize in agronomy, soils, and food technology, and in other areas.

Then sanitation and public health, especially protection of food and water supplies, are other ecologically important areas.

So if a career in ecology appeals to you, you may choose almost any area of study, and find college courses to prepare you for a possible environment-protecting career in the area which interests you.

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Relevance—involvement—freedom of inquiry . . . all are current and probably overworked phrases. But they aren't empty phrases, for they represent the times. They are what K-State is all about.

Only you know what you really want out of life. If you want to help clean up the environment, design more livable cities, fight hunger, teach the young, improve business management methods, or even build a better mousetrap, you can get the background and training you need at Kansas State University.

And when you finish this training and go out to help solve a few of the world problems, you will discover the most important form of pride—self-pride.

Kansas State University Colleges of . . .

Agriculture	Education
Architecture & Design	Engineering
Arts & Sciences	Home Economics
Business Administration	Veterinary Medicine

For further information, write

Dean of Admissions & Records
Kansas State University
Manhattan, Kansas 66502

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What skills does the secretary need? It is to her advantage if she can type 50 words a minute and take shorthand at 80 words a minute. In addition to these basic skills, she should be willing to assume responsibility, be organized about her own work, and help organize that of her boss. She should be well groomed and appropriately dressed.

The best secretary identifies with her boss on the job he is doing; if she doesn't, she just as well be on an assembly line! She represents her employer; the

manner in which she represents him helps or hurts his reputation. She handles his phone calls; she is his receptionist; she is his

spokesman with others on the staff.

Women in many professions, in clerical work, and women at home need to type, so typing should be on every girl's schedule of courses to take.



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TODAY'S STUDENT**

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Great Bend, Kansas 67530

Advantages of junior college— (Continued from page 21)

than does a typical senior college outside of a metropolitan setting."

"The junior college provides more opportunity for occupational curricula variations and experiences for less student time spent than the four-year college normally requires for a bachelor's degree program."

"Because junior colleges are relatively small, many students try dramatics, sports, etc., that they would never venture into in larger colleges."

"The ability of the junior colleges to help the senior colleges from becoming overcrowded must be considered an advantage."

Kansans young and older believe that there are distinct, measurable advantages to attending public community junior college. New advantages will be recognized as the junior college system is made available to more Kansans. But those advantages will necessarily be personal and individualized for each person from young to old who attends any Kansas public community junior college.

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Opportunities in business

By Ralf J. Thomas, Chairman
Department of Business Administration
Kansas State College of Pittsburg

Employment statistics reveal that approximately one-third of all of the employed persons today are in some phase of business. Forty years ago only 5 per cent of the employed population engaged in business occupations; so business has had a fantastic increase in the past few years. Furthermore, business is one area that offers excellent opportunities for both young men and women. Training for business can be secured at various educational levels—high schools, business colleges, vocational-technical schools, community colleges, or senior colleges. In some positions college degrees in business are required.

What are some of the business opportunities available for young men and women today?

ACCOUNTING AND BOOK-KEEPING — This is a field in which there is an expanding demand at the present time — especially for accountants — and in which there is an increasing number of women being employed. The question frequently arises as to the basic difference between a bookkeeper and accountant. A bookkeeper primarily keeps the records for a small business. The accountant, on the other hand, is responsible for the accounting records of large corporations, audits the books of businesses, sets up accounting systems, and handles tax problems. There are basically three types of job opportunities in accounting — industrial, public, and governmental.

BANKING AND FINANCE — Banks are always looking for young people to enter their profession because of their expansion of services. In the larger cities, they especially need young people to train for loan work, investment consulting, and estate planning. Young women are required for the many clerical positions involved. In the finance area there are unlimited opportunities to enter either the investment or the credit areas. This is a rapidly growing field today because we are a nation

that deals heavily in credit.

MARKETING is concerned with the distribution of goods and services from the time they leave the producer until they finally reach the consumer. In manufacturing, wholesaling, and retailing firms marketing people are responsible for research, advertising, sales promotion, and the actual selling of merchandise.

INSURANCE AND REAL ESTATE provides young people with many challenging positions and work. In insurance there is a need for not only sales personnel but also claim adjusters, underwriters, and home office positions. Since so many people today are buying and selling property, the real estate business

(Continued on page 32)

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Opportunities in business —

(Continued from page 31)

presents a number of possibilities that includes not only the actual selling of property but also involves property management, property appraisal, real estate financing, and land planning.

RETAILING is the third largest occupational field in the U.S. and many fine positions exist in this field for both young men and women. It includes employment as buyers, fashion coordinators, merchandise managers, sales, branch store managers, and owners of small stores and specialty shops.

MANAGEMENT is a comparatively new field that includes basically three areas: (1) Administrative management—management trainees for chain stores, (2) Personnel and industrial relations — the selection, training, and working with the employees in business enterprises, and (3) Industrial or production management — responsible for industrial production and supervision of employees. Most management positions require college training and some, especially in industrial management, are designed primarily for young men.

SECRETARIAL AND CLERICAL. Nation's Business has indicated that we always face a shortage of well-trained secretarial and clerical workers. In the average office a complete turnover is anticipated every five years with a female staying, on the average, about three years. This is a field that is dominated mainly by women who do need certain qualifications — well-prepared skills, good grooming and the ability to get along with others.

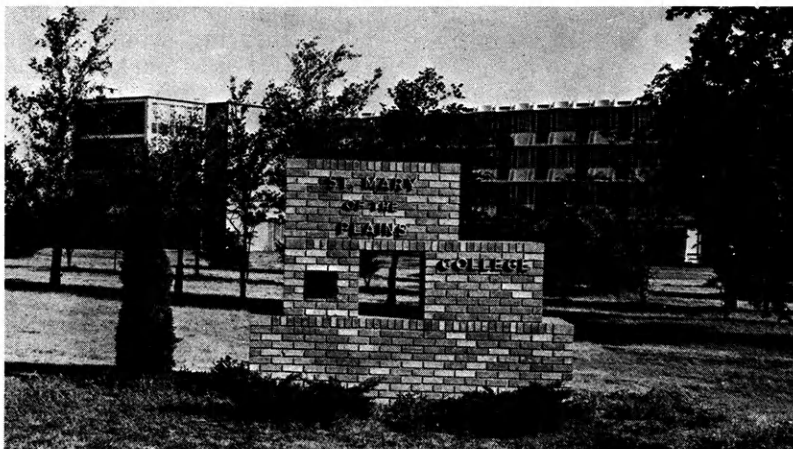
COMPUTER PROGRAMMING offers excellent opportunities for both young men and women. There are different levels of computer employees requiring varied educational training ranging from the key punch operators who cut the tapes to prepare the programs to the programmers themselves who set up the material to be run on the various types of computing equipment. Certainly automation is here to stay and will have its affect on the business world.

BUSINESS TEACHING —

There will always be a need for well-qualified teachers to prepare young people for the business world. Business teaching takes place at various education levels — the junior high schools, senior high schools, vocational-technical schools, private business

colleges, community colleges, and the senior colleges.

When we observe that the average young man can expect to spend 40 years in the business world and the average young woman 25 years, we realize that there will be excellent opportunities for them in business with all of its expanding facets.



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See listing page 24

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A challenge

The ministry today

By Dr. James G. Van Buren
Professor Humanities and Theology
Manhattan Bible College

The Christian ministry is a work with many dimensions. If you have ever wondered, "What does a minister do with all the time he must have on his hands?" here are some of the answers.

First, and most obviously, a minister **preaches**. Once or twice on Sunday he speaks about the Christian faith and its application to the life of man. This requires an intensive and extensive knowledge of the Bible, and a familiarity with human life and thought so that this truth may be forcefully and helpfully related to his congregation. The minister speaks to a wide range of ages, to persons of varied educational levels, and of diverse religious development and background. This is a job requiring intense concentration if it is to be meaningful. But vital and vigorous preaching gives men inspiration and insight, comfort and challenge, such as no other form of human speech can provide.

Then, too, the minister **teaches**. He frequently teaches a Bible class on Sunday morning or a mid-week class; classes of boys and girls or men and women contemplating church membership; and classes at summer church camps.

The minister also serves as a **pastor**, or shepherd. He visits those who are ill or who have known death in the family; he calls on the aged and infirm and assures them of the continuing interest of the church and the love of God.

As an **evangelist** the minister seeks to increase the outreach of the church by enlisting new adherents to the Christian cause.

Another area of activity in which the modern minister works is that of **promotion**. Usually he edits a weekly church bulletin with the calendar of church events. He may also oversee the issuance of a weekly or monthly church newspaper with information about local church activities and various area, state, and national functions. It keeps members informed as to each others successes, sicknesses, and moves.

Training for a religious vocation may include four years of study, perhaps in liberal arts, to get a broad background of understanding, followed by graduate study in a seminary. Study at a Bible college is another possibility. Requirements vary from denomination to denomination, so, if you are interested, ask your priest, rabbi, or minister what educational training your denomination recommends.

Another of the minister's jobs is that of administrator, working with a church board or cabinet or vestry responsible for the direction of the church. But someone needs to suggest new programs in education, missions, worship, social service, and membership development. This person is the minister.

The minister also **represents** the church in community enterprises. He will perhaps help with the work of a local hospital, or community fund, or library as the representative of the congregation. He also works with other ministers in organizing special united church services at such times as Thanksgiving and Memorial Day or before Easter.

This Christian leader also acts in a **priestly** way. That is, he helps with communion, he performs baptisms, he conducts funeral services and performs wedding ceremonies.

Finally, the minister today spends time in **counseling** or talking privately with people about problems they have, such as those relating to spiritual understanding, marriage conflicts, feel-

(Continued on page 35)

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Miltonvale Wesleyan College
Miltonvale, Kansas 67466

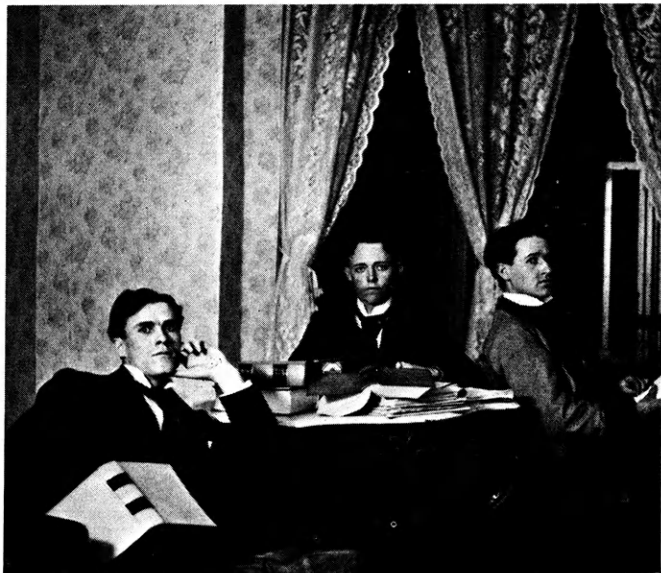
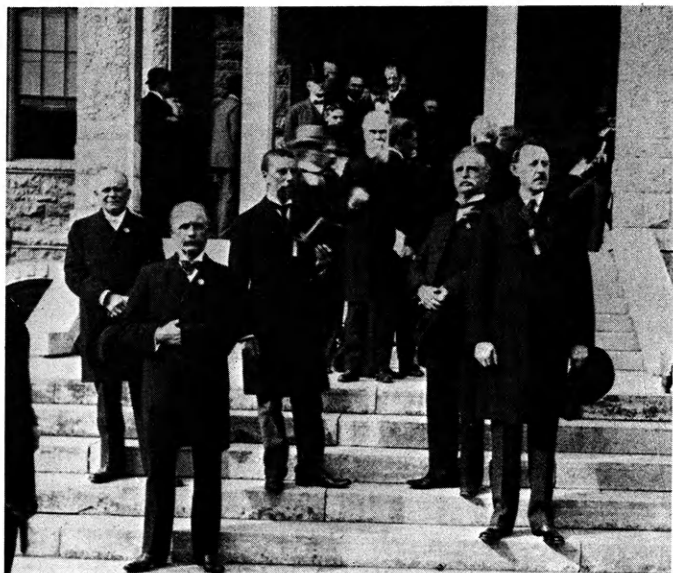
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The ministry today —

(Continued from page 33)

ings of loneliness and depression, alcohol or drug addiction, or choice of a vocation in life.

The minister has opportunities to use every talent he possesses and to give living expression to everything he can learn. He knows rich and rewarding friendship with his church people and associates in the ministry. He can share with people in joy, in sorrow, in victory, and in tragedy. He will find most of today's churches will pay him an adequate salary and provide a home for his family. He can speak for God to human hearts, can identify with people in the major experiences of their lives and bring to those hours the cheer, the challenge, and the compassion of Christian truth through his own personality.

Dedicated persons may serve in many specialized religious vocations, in addition to the parish ministry. Among these are: journalists, chaplains in the armed forces, in hospitals, or penal or mental institutions; directors of religious education; teachers; missionaries; church secretaries; social workers; directors of church music programs; and campus ministers. A minister may work in the crowded inner city, or with several churches, perhaps of different denominations, in a sparsely populated rural area.

Value of liberal education

When Newton was hit on the head by that apple, he thought about what had happened and discovered gravity; that was his liberal education at work (he had flunked math, by the way). Having found something useless to him, he took the usable apple indoors and asked his wife to bake it with a little sugar and cinnamon; that was being practical.

A liberal education is usually taken to mean an education which is not practical or which is downright impractical. But the original Latin word from which the English word "liberal" is derived means "free", that is, "not a slave." The liberal arts are those worthy of or characteristic of free men, like philosophy or mathematics, as opposed to the servile or mechanical arts.

The goal of the liberal education is to be at home with man through the ages and to gain wisdom about one's own life and direction today. With this goal, spiritual realities have pre-eminence over the exact material sciences.

A liberal education has no value; that is its point. This kind of knowledge is so valuable that it is priceless!

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See listing page 24

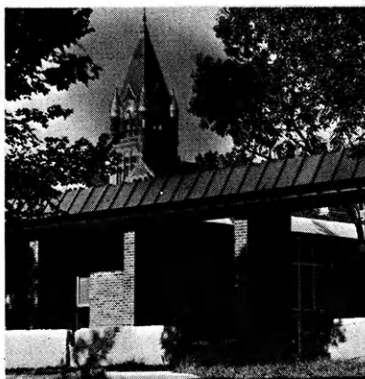
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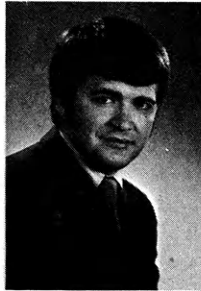
Courses in seven divisions provide excellent educational programs with emphasis on individual student-faculty relations. All divisions are fully accredited.

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Viewbooks, admission requirements and academic information may be obtained by writing or phoning the Director of Admissions, Friends University, 2100 University, Wichita, Kansas 67213 (263-9131).

Cosmotology--a learned skill

Charles Crum is vice-president and general manager of Crum's Enterprises, Inc., and director of Crum's Beauty School. He is a member of the National Hairdressers and Cosmetologists Association. He is president of the Manhattan Cosmetologists Association for 1970. Mr. Crum is a member of the Kansas Hair Fashion Committee and president of the Kansas Cosmetology School Owners Association.



Charles E. Crum

While researching material for this article, I read an editorial by Israel Rubinstein, an editor for a prominent vocational schools magazine. I personally feel that his editorial is one of the best articles I have read, and because of its timeliness I would like to quote from it in writing to you.

"It seems about time that people came to grips with reality and took a good hard look at the business of preparing the youth of our country to earn a livelihood, one that will maximize satisfactions, and, at the same time, minimize frustrations. Current trends notwithstanding, people are different, they have interests, aptitudes and abilities as dissimilar from each other as are their faces. To take youngsters and attempt to fit them all into the same educational mold is not only harmful to them, but does a disservice to the community as well. No one benefits when so many of them become vocational misfits.

"The community at large, and educators and parents in particular, seem to have lost sight of

the basic goal of education—to best equip an individual to become a contributing member of the community, so that he will be a giver as well as a taker, in relatively equal parts. (As a matter of fact, I consider the achievement of this to be a rather reasonable formula for a happy and successful life.)

"But far too many students are being pressured into attempting a college education by family, friends, relatives, educators, and a community that reserves the stamp of approval only for the college graduate. What a crushing pity it is for the young man with a big talent for working with his hands to be coerced into attempting a col-

lege education when his aptitude and interest are in making a cabinet, fixing a television set, repairing an automobile, or becoming a highly skilled and creative cosmetologist. Instead of being encouraged to pursue the training best suited to his needs, he is forced into a college from which he will ultimately drop out.

"That we are becoming a nation of malcontents does not seem to concern parents or guidance counselors, who continue to lump all youngsters together and only concern themselves with which colleges can these youngsters go to, and how can they be molded, cast, sculptured, and finally misshapen into some-

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thing they were never intended to be—college graduates. How sad it is that both parent and counselor would rather have a confused and unhappy college graduate than a contented practitioner of a trade. It is certainly timely that both parents and guidance counselors realize that there are many lucrative areas for servicetype careers which they are overlooking.

"In a recent speech, Vice-President Spiro T. Agnew said 'In our society, which needs skilled labor, we must restore the manual arts to their rightful place of esteem. We have done a grave disservice to the working man by neglecting his central importance to our society. All too many who now go to college have little interest, ability, and use for what constitutes a college education.' He went on to say: 'They would be better off with a high level vocational education which is closely linked to a work program which gives

scope to their needs for physical activity and visible, tangible achievement . . . There is no chance for change if parents reverse the college degree as a symbol of their parental success.'

"Certainly, cosmetology is one of many vocations which can offer a student very specific benefits: a relatively short period of training . . . at moderate cost . . . including interesting and practical work in the school . . . preparing for a field that pays a premium for creativity . . . with the possibility of ownership of a small, medium or large enterprise . . . and, of course, compensation that will enable him to lead a comfortable and rewarding life.


"'Dropouts' from college far too often end up as 'dropins' to trouble. The message to parents and counselors is clear—investigate service-type vocations, such as cosmetology, as a career — it may give the youngster a future of promise and reward, rather

than one of boredom and frustration."

As far as requirements go for cosmetology schools in Kansas . . . you must have the equivalency of a high school diploma if you are under 25, and must be at least 17 years of age by the time you take the Kansas State Board of Cosmetology Examination for your cosmetology license. You must also pass a complete physical examination saying you are free from any communicable diseases.

Personally qualified? I think the youth of our country have enough common sense to answer this question themselves. Do you enjoy keeping yourself well groomed? Do you enjoy working on your friends' hair? Do you have good finger dexterity (use of your hands)? Good appearance? Are you in good health both physically and mentally? Do you enjoy meeting new people and trying new styles?

(Continued on page 40)



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In direct contrast to working conditions at the turn of the century, it is estimated that seven out of ten people will be involved in service occupations within the next decade.

Students may enter nursing on four levels—Licensed Practical Nurse Program, Diploma Graduate Program, Associate Degree Program or the Baccalaureate Degree Program. Students may also progress from one of these programs to the next, perhaps working between times to further their careers.

Nursing education is moving into institutions of higher learning such as junior colleges and universities. However, any student without the means to begin in these institutions can begin in the Licensed Practical Nurse Program or the Diploma Program and upon graduation work for a time to accumulate exper-

ience and to save for tuition in the Associate Degree or Baccalaureate Degree programs.

Graduates from the two-year associate degree program usually work in hospitals, physicians' offices, home care programs, clinics, or private duty.

Graduates with a baccalaureate degree in nursing are prepared to progress to positions of leadership in preventive health, as team leaders for nursing care in hospitals and in teaching health care to others. They are also prepared for advanced study in clinical fields of practice, for further study in research or teaching and will be the role models in nursing in our technologically advancing society.

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Ft. Hays Kan. State College, Division of Nurse Education

Agency Control: Kansas State College

KANSAS CITY, KANSAS 66103

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Rainbow Boulevard at 39th St.

Agency Control: University of Kansas

SALINA, KANSAS 67401

***Marymount College**, Department of Nursing,
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Agency Control: Sisters of St. Joseph
WICHITA, KANSAS 67208

Wichita State University, Department of Nursing.

Agency Control: Wichita State University

ASSOCIATE DEGREE PROGRAMS

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Butler County Community Junior College, Department of Nursing,
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Agency Control: Butler County Community Junior College

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Barton County Community Junior College, Department of Nursing Education

Agency Control: Barton County Community Junior College

HESSTON, KANSAS 67062

Hesston College, Division of Nursing
Agency Control: Mennonite College

PARSONS, KANSAS 67357

Labette Community Junior College, Department of Nursing

Agency Control: Labette Community Junior College

DIPLOMA PROGRAMS

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HUTCHINSON, KANSAS 67501

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Agency Control: Methodist Hospital
KANSAS CITY, KANSAS 66101

***St. Margaret Hospital School of Nursing**
759 Vermont Avenue

Agency Control: Catholic Hospital
NEWTON, KANSAS 67114

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Agency Control: Mennonite Hospital
SALINA, KANSAS 67401

***Asbury Hospital School of Nursing**
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TOPEKA, KANSAS 66606

***Stormont - Vail Hospital School of Nursing**
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Agency Control: Private Corp.
WICHITA, KANSAS 67214

***St. Francis Hospital School of Nursing**
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Agency Control: Catholic Hospital

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Agency Control: Methodist Hospital

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Agency Control: Catholic Hospital

PRACTICAL NURSE PROGRAMS

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400 South Evergreen St.

Agency Control: Chanute Board of Education

COLBY, KANSAS 67701

Colby Community Junior College,
Dept. of Practical Nursing Education

CONCORDIA, KANSAS 66901

North Central Kansas Area Vocational Technical School, Department of Practical Nursing

135 West 8th

Agency Control: Vocational Technical School Board, Beloit

DODGE CITY, KANSAS 67801

Dodge City Community Junior Col-

lege, Dept. of Practical Nurse Education

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Agency Control: Dodge City Board of Education

EMPORIA, KANSAS 66801

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Agency Control: Emporia Board of Education

KANSAS CITY, KANSAS 66103

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(Continued on page 40)

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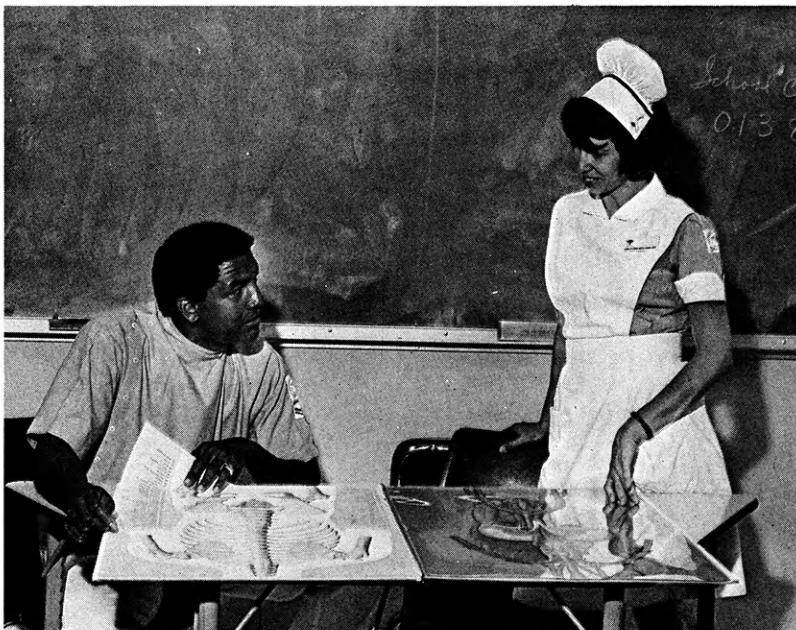
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See listing page 24

Four plans offered for student nurses

(Continued from page 39)

LAWRENCE, KANSAS 66044

****Haskell Institute, Practical Nurse Program**
Agency Control: Bureau of Indian Affairs

MANHATTAN, KANSAS 66502

Manhattan Area Vocational Technical School, Dept. of Practical Nursing
3136 Dickens St.
Agency Control: Manhattan Board of Education

McPHERSON, KANSAS 67460

McPherson School of Practical Nursing
P.O. Box 484, Room 302, Peoples Bank Bldg.
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*—National Accreditation

**—Admission requirement: At least one-fourth Indian blood.

Cosmetology— a learned skill

(Continued from page 37)

Do you want a career that can give you both personal and financial satisfaction as well as an outlet for your creative desires? Only you can answer these questions for yourself, and the answers for all of them should be "yes." A "natural ability" or so-called "knack" is not so important in the cosmetology profession. This is one of the learned skills, and these skills can be perfected through practice if you have the desire to succeed. A pleasing personality is also a must; however, that too can be developed if you have the desire.

To find out more about entering into cosmetology training, write to the schools advertising in this magazine. I am sure they will be happy to send you complete information about their schools. You should also consult with your high school guidance counselor. I also think it is important to check with more than one school before you make the final decision as to where you could take your training.

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Help provide funds for college

By Gerald R. Bergen

Director, Aids, Awards and Veterans
Service, Kansas State University

Financing a college education today is becoming exceedingly difficult. Increased costs and larger student enrollment are combined during a period of high unemployment and general business fluctuation.

Well ahead of the time he wishes to enroll, the student should give serious thought to the costs of attending college and how he might best meet these costs. Applications for admission and financial aid should be submitted, at most institutions, at least six months prior to enrollment if the student is going to request financial assistance.

Various programs will assist a student in meeting these financial obligations once it has been determined that the costs of attending college are greater than what can reasonably be expected that the parents and student can provide. The parents' financial contribution can be determined by two commercial corporations, Financial Aid Services of American College Testing (Family Financial Statement) and College Scholarship Service (Parents Confidential Statement) or by evaluation of the Income Tax Statement. Some institutions will calculate need by their own system from information provided by the family. The need analysis becomes a vital part of determining eligibility for the various federal programs.

The National Defense Educational Act (NDEA) loan program is most widely known and does provide a big share of the loan funds available for educational purposes. A student must have a justifiable need to be eligible for this program and this will establish the amount the student may borrow up to a maximum of \$1000 per year. Institutions may establish other criteria such as minimum grade point over-all as eligibility re-

quirements, also. The interest on these loans is 3 percent beginning nine months after termination of studies with a ten-year repayment period also beginning nine months after termination of studies. Funds for these loans are allocated to institutions and must be matched by the institutions on a 1-9 ratio; therefore, the loans are not transferable from one school to another.

The Guaranteed Student Loan is a program that differs from the NDEA in that need cannot be considered for eligibility to borrow. The loans are made through commercial lending agencies, banks, savings and loan associations, credit unions or life insurance companies, but the college must verify that the student has been accepted for enrollment or is enrolled. A student may borrow up to \$1500 per year with repayments commencing nine months after termination of studies. Interest is at the rate of 7 per cent but the Federal Government will pay this while the student is in school if the adjusted family income is less than \$15,000 annually. If the adjusted income is higher than that the student is still eligible to borrow but must pay the 7 per cent interest while he is a student. The student pays the interest in both instances when repayment begins and repayment can extend from five to ten years depending on the amount borrowed.

The Educational Opportunity Grant (EOG) program is for students with exceptional financial need. For those students who qualify, a share of their financial aid will be gift assistance with the remainder coming from loans, jobs, or scholarships. This program assists only undergraduate students.

Scholarships provide assistance to many students; however, few of these will meet all of the student's financial need. They are established to recognize academic abilities, but many also consider financial need in the selection criteria.

Part time jobs can also provide a source of self help while the student is enrolled. A study made at Kansas State University indicated that part time work caused no significant difference in the grade point average of equal ability students. It may be of interest to know some of the jobs students have obtained to finance a share of their education.

While many of the jobs would fall into the routine category, such as typist, dining room attendants, switchboard operators, and custodians, every-once-in-awhile a very unusual job emerges. For instance, a girl, who needed a job very badly but had never worked with animals, accepted the challenge of caring for a bunch of rats, real live ones, that is. After her initial fear disappeared, she became a very highly motivated rat-keeper. Other students have created their own jobs. A group of boys, deciding that the collection of garbage in Manhattan needed improvement, formed their own company and started a very prosperous business. Other students have formed their own business with sandwich shops and by selling furniture and interior decorations they have designed. One boy with the talent for horseshoeing developed a very interesting and profitable business. A girl helped paint the athletic dormitory one summer. Many have found their jobs both rewarding and educational. How better could a student gain experience than start, develop, and manage his own business?

Whatever your situation is contact the financial aid officer at the school of your choice for additional information.

Predictors say that the fastest growing occupational areas are the professional and related job fields, and that of service workers. In all areas there will be continuing need for workers in research and development, education and health services, and the processing of paperwork.

Agri-business is No. 1 industry

Total agriculture, including related industries, is Kansas' biggest industry, accounting for \$6½ billion annually. Three out of every ten gainfully employed persons in Kansas are in agriculture. As the number of farms declines, farms become bigger and more technical, so they demand

better qualified managers and operators. Twenty per cent of Kansas State University ag graduates return to farms. Nearly half find employment in off-farm ag-related industries. Two or three jobs exist for each ag graduate at starting salaries exceeding \$8,000 per year.

Consider ag-communications

A career in agriculture and communications combines two of the nation's largest, most dynamic industries. Agriculture employs five million workers; communications is also a major field.

Some areas of specialization are publishing, broadcasting, agri-business companies, advertising and public relations agencies, education and government, trade associations, farm organizations, and financial institutions.

If a career in agricultural communications and marketing appeals to you, here are ways to learn more:

1. Get acquainted with and talk with people working in these fields.
2. Study advertising and sales literature.
3. Work on student newspapers and for campus radio stations.
4. Find out about programs offered in college and vocational-technical schools in these fields. Agricultural journalism is an example of a course in agricultural communications.
5. Get a summer job selling door-to-door or working in a store.
6. Join constructive groups that give you an opportunity to write or speak.
7. Keep a file of your creative work.

What is a crop specialist? He is an agronomist. By the year 2000, economists expect the world population to double from 1960's three billion to six billion—making it urgent that new efforts are undertaken to prevent world-wide hunger.

Agronomy is primarily the study and application of crop science or soil science, or a combination of both, to produce food, feed, and fiber. Since about 67 per cent of the world's food energy comes from cereals, soybeans, peas and beans (compared to 20 per cent from meat), you can see why the agronomist is going to be a person much in demand.

(Continued on page 46)

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Agricultural Technology Dept.
Dodge City Community College
Dodge City, Kansas 67801

please include:

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Policemen are needed

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Law enforcement is a rapidly growing field. In the past 20 years, employment of all levels of police work has more than doubled. In most areas, the demand exceeds the supply of qualified workers. The need is particularly great in large cities and on state police forces.

It is estimated that several thousand newcomers will be required each year for several years, due to replacement needs and the upward trend in number employed.

Most newly recruited policemen begin on **patrol duty**, which has become particularly important as a means of preventing crime and providing other services to the public. Patrolmen may be assigned to congested business districts, outlying residential areas, or other sections of a city; they may cover their beats alone or with other patrolmen; and they may ride in a police vehicle or walk on "foot" patrol. In any case, they become thoroughly familiar with conditions throughout their area and, while on patrol, remain alert for anything out of the ordinary. They note suspicious circumstances, such as open windows or lights in vacant buildings, as well as hazards to public safety, such as burned-out street lights or fallen trees. Patrolmen also may watch for stolen automobiles and enforce traffic regulations. They report to police headquarters at regular intervals through call boxes or by radio, giving and receiving information about any situations which require action. They also prepare and turn in reports about their activities, and, in cases which result in legal action, they may be called upon to give testimony in court.

The **traffic policeman**, on a fixed post assignment, regulates and directs the movement of vehicles and pedestrians at a street intersection. His particular concern is the safety of pedestrians and the observance of traffic rules and regulations. He stops motorists who have disobeyed traffic rules, explains the law that has been violated, and if the offense is serious, arrests the

motorist or gives him a traffic summons. He studies traffic conditions on his post and, if necessary, recommends changes to improve these conditions.

Some cities have accident prevention squads. Policemen on these squads investigate traffic accidents to determine causes of the accidents. From information obtained about accidents they formulate plans for the regulation of traffic and the education of the public against such accidents. Frequently this squad also obtains photographs, statements, measurements, and other evidence that can be used to determine which party is in the wrong.

Although it is fairly restrictive due to the skill involved and the comparatively few openings, some of the large police departments also have policemen assigned to helicopter patrol. This service assists in traffic control, disaster work, surveillance, and occasionally participates in pursuit of vehicles containing escaping suspects.

When a policeman is assigned to "**prowl**" car duty, he patrols an assigned area of the city in a radio equipped automobile, usually with another policeman. During the day he checks on traffic violators, keeps a protective eye on school children, and watches for any unusual happenings on his patrol. He answers calls sent from the police station. He takes whatever steps may be necessary to prevent assaults, thefts, or other crimes; to apprehend criminals; or to prevent the disturbance of the peace.

The use of scooters by patrolmen is increasing. Scooters can reach areas that larger vehicles are unable to penetrate; they are more economically operated and free larger vehicles for patrol duties. Also foot patrolmen are now being supplied with walkie-talkies.

Large cities have departments or bureaus which specialize in handling homicide and vice cases. A policeman who is a member of the **homicide squad** investigates cases of homicide to determine the crime and to obtain clues and evidence that will lead to the arrest and conviction

of the guilty. As a member of the **anti-vice squad**, a policeman investigates establishments and persons suspected of violating the sex offense and gambling ordinances. As a member of this squad, he helps to conduct raids on offenders, arrest persons connected with them, and obtains evidence to be used in prosecution. Related to this type of work is the investigation of suspected narcotic and illegal drug users and sellers. Narcotics squad officers always use plain clothes or disguises in their surveillance work.

An increasing number of city police departments are including women on their police forces. Policewomen are usually assigned to work which involves women and young people. They may, for example, work with juvenile delinquents, try to locate lost children and runaways, or search, question, book, and fingerprint women prisoners. Less frequently, they are assigned to detective squads, where they work mainly on crimes involving women. Policewomen are almost never assigned traffic duty.

Personal qualifications for policemen and women are high. Aspirants must pass careful character investigations. They must pass written, oral, and psychiatric examinations (usually civil service), which measure intelligence, judgment, and general knowledge. Some departments require a high school education or its equivalent. Physical and medical requirements are strict. They must have 20-20 vision, with or without glasses. Minimum acceptable height for men is 5'7", and their weight must be in proportion to their height. In most cases, applicants must be between the ages of 21 and 35.

Other important qualities for a career in police work are emotional stability, keenness of observation, good memory, the ability to take and give orders, "common sense," and a strong sense of responsibility.

Applicants must be American citizens and, in some cases, residents of the community for a

(Continued on page 44)

Policemen needed —

(Continued from page 43)
specified length of time, usually one to three years. Preservice residence requirements are becoming less common.

An academic course in high school is recommended with special attention to English and social studies. A knowledge of typing and simple clerical methods will be useful to the student hoping for advancement on the job. (From the rank of sergeant, officers are required to perform or supervise some desk duty.)

Preservice training is the most common method of training. The recruit enters a probationary period of three months to one year before his regular appointment to the force. During this time, he may receive both classroom instruction as well as field training from veteran officers. Many cities, large and small, as well as state police departments, have police schools which have courses six weeks to three months in length where the recruit receives intensive training. Classroom instruction includes courses on the penal law, civil rights, the sanitary code, and other law enforcement phases of

police work. Greater emphasis is being placed on community and human relations in the training of police officers as a result of the increase in racial tensions in cities. Physical instruction includes first aid, swimming, judo, drill, and carrying sick or injured persons. Many hours are spent on the firing range to learn the efficient use of firearms.

As police work has grown more complex, both preservice training and training on the job have become increasingly necessary. Some colleges offer two year associate degrees, some offer four-year programs leading to a bachelor's degree, some offer short-term courses. Names of the courses vary between different colleges; some are called police administration, criminology, police science, police training, police institute work, law enforcement, and correctional administration.

Kansas policeman receive special instruction at the Kansas Law Enforcement Training Center at Hutchinson. The police academy, which opened in 1968, provides a 120-hour training period.

OTTAWA UNIVERSITY

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Also See page 24

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Plan for your future

Many available careers, and more as time goes on, require a college education. For this reason, if you have the ability, you should make every effort to complete high school and obtain as much knowledge as possible in some interest field. After this has been accomplished, your next important step is to select the right college or university for training in your selected interest field. We hope the information in this magazine will help you to decide which college is for you.

How do you find your interest field? Everyone has some interests that stand out above others and many times a person finds that his interests were aroused because of a hobby; a hobby may lead you into an occupation. Try to find out what your interest or hobby is. For example, if you are a girl, maybe you decided to be a nurse when you were still in elementary school and you find yourself still intrigued by the nursing profession, so your set of interests have already guided you toward a choice of work.

In a highly specialized and technological society like ours, there is hardly a job left that does not require some sort of training. A young person has to make a realistic survey of the opportunities open to him for learning what he needs to know in order to qualify for those fields of work which interest him, or in which he would appear to have ability.

When you consider a possible occupation you should ask yourself: Will there be a need for this kind of work in years to come? What may I reasonably expect to be the outstanding developments in this field? Could I shift to another field if necessary?

Stay well informed about what is happening in our rapidly changing world. Keep up with the news. New opportunities open up, new ideas arise, so knowing what is happening in the world and in our society stands you in good stead by providing a helpful perspective.

Let your parents "in" on things you read and think about, and share your concerns and worries

with them about occupations. Also seek help from teachers and counselors. They are interested in helping you find what you can do. You should keep your consideration of possible occupations as broad as possible. Do not become too specific too soon. The work you will do involves the investment of your abilities, and ultimately the progress you make depends upon your own attitudes. The time to make the decision about your own chances are right now—in school, on the job on weekends, or in tasks assigned to you at home—give the best you have to what you are doing.

Choosing a college

The high school senior must consider many things in making his plans. Perhaps the most basic question is whether he should attend college at all, or if his talents could best be served by a vocational-technical program, a terminal program leading to skilled training. College officials are becoming increasingly aware of the fact that more and more students are attending college because of parental pressure, greater availability of funds, or draft requirements. Whatever the motives, if the choice is college, then the student must be certain that he makes the proper decision, for the realistic choice of a college may be the determining factor in academic success or failure.

In regard to choosing a college, a student must answer for himself basic questions such as (1) what school has the most to offer in the area in which he is interested; (2) what school meets his needs in terms of counseling, exploration of occupational interests; and (3) what school can he best afford?

The colleges are prepared to explore the answers to questions and problems of college admission and success; students must be equally prepared to take advantage of the help available to them.

Visit college campuses and learn more about school offerings and services available to freshmen.

Plan ahead if you're going to college! This is the advice of university students who were interviewed for suggestions for incoming freshman.

Academic preparation? "Take English, math, and sciences," the college students said. A course which many regretted not having taken is typing.

With college costs rising, one should plan ahead financially, too. "It's not too soon to begin to save when you are in ninth grade," was one comment.

Maybe most important is to develop good study habits in high school. "In college, there's no one to keep reminding you to get your work done."

Some good habits to develop are these: prepare work every day; read assignments as soon as possible; take good notes in class and go over them that night; prepare for each test as if it were a final.

One way to make the transition from high school to college smoother is to start in the summer. "Summer school before the fall semester is an excellent chance for a freshman to earn a few hours of credit, learn about the campus, and adjust to college life. This also will remove some of the pressure for credits four years later."

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To get a job --

Personal traits important

When an employer chooses someone for a job, he looks for a person with special knowledge and skill; but he also looks for personal characteristics which may be even more important.

These other qualifications are such things as attitude, dependability, intelligence, character, and appearance. The ability to get along well and work with others is necessary for most jobs. Honesty is of top importance.

Ask yourself: Can you make it to work on time each day and fit into the job routine? Are your manners pleasing to others? Is your health good? Are you friendly and cooperative? Do

you appear to be neat, clean, and pleasant? Your clothes need not be expensive, but are they suitable for you and for the occasion?

Most important, when you are applying for work, show that you want the job, that this is the work you are interested in, and that you will make an effort to do it as well as you possibly can.

When you get your first job, remember that it costs your employer something to train you in the early months at work. Some employers estimate the cost of training new employees to be one hundred dollars or more. Also, the employer has invested

large amounts of money in buildings and equipment and he will invest more in wages. So he will choose an employee who wants to work for him, who will fit into the employer's organization, and will give a day's work for a day's pay.

Crop specialist —

(Continued from page 42)

Agronomists search for secrets of improved crop quality, yield, and production. Many occupations come under the agronomy label; he is a teacher, researcher, or extension specialist in education, government, or industry. A few specializations are plant breeding, plant physiology, biochemistry, soil fertility, soil physics, soil chemistry, and soil management. Other agronomists are concerned with a particular geographic region or crop. They enter farming or sell or manage for manufacturers of fertilizers, pesticides, seeds, and other agricultural products.

If you plan on such a career—you need to have in high school, chemistry, math, physics, biology, as well as English. In college, earn a bachelor of science degree or its equivalent, with such courses as geology, botany, bacteriology, genetics, plant pathology, physiology, entomology, meteorology, and other applied sciences. This would qualify you for a position with a seed or farm chemical company, or for work as a county agricultural agent, a soil conservationist, or a vocational agriculture teacher.

If you like the outdoors, forestry may be the career for you. A forester may manage timberland, wilderness, and rangeland areas; supervise fire control teams and wildlife programs; handle lumber sales; direct cutting and milling; plant trees and plan watersheds. Federal, state, and local government units hire many foresters to manage parks, game preserves, and public woodlands, or conduct research, or to supervise public conservation and education programs.

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