

FEATURE

Hello High Tech

High tech additions have made GCC's Super Center smarter than ever.

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SPORTS

Fit for Fitness

Fitness Center ready for third year.

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Back to School
College Preview Edition

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T H E
Voice

Special Preview Edition

Fall 1987-Spring 1988

Glendale Community College
Glendale, Arizona

Commentary

A time to overcome

By Rusty Van Patten

Summer's sizzling temperatures aren't conducive to focusing on fall and the "back-to-school" theme, but ready or not, summer's theme is "out" and the "back-to-school" theme is once again "in."

For first-year GCC students, "back to school" means facing a new environment, new experiences, and new challenges.

The thought of all this may inspire in fledglings a variety of reactions from eagerness to nervousness.

Returning students, with some experience to call on, may consider the same prospect with knowledgeable anticipation or temporary trepidation.

Either way, the new beginnings, and the weeks of work and worry that follow them, are always exciting and evolutionary.

Maybe the semester of fall '87 will be one we will never forget because it was the semester that we:

- Pushed ourselves beyond our limits and found, to our gratification, the word "limits" slowly disappearing from our personal lexicons.
- Conquered our fear of English and discovered, to our surprise, that we liked it.
- Marveled at the new High Tech Center and found, to our joy, that most computers are user-friendly and fun.
- Discovered the English Lab in the High Tech Center, and learned, to our elation, that for a \$5 fee we were free to use a computer to write our papers for any assignment in any course on campus.
- Held the vision of graduation day ever before us and refused, to our credit, to give up on biology, algebra, U.S. history, elements of speech or, most importantly, ourselves.

New beginnings, if we take advantage of them, can teach us more about ourselves than we ever dreamed was possible.



Mark Flechter / Voice

Reach out and touch

Chet Gunkel (right), GCC telecommunications associate, checks a manhole with Ed Romo while Ton Fiore looks on. The Mountain Bell employees are installing lines for GCC's part of the \$6 million district telecommunications project.

New center to occupy former bookstore

By Beth Ewing and Jennifer Jones

The old bookstore will take on new life when the Center for Information, Advisement, and Registration occupies the building in the spring semester.

"We will have the capability to accommodate many more advisers during the academic year," said Ray Simpson, coordinator of advisement services, "and by having more room for more advisers, we will have more room for more students."

An ideal aspect of the facility is a student will be able to walk in with a limited knowledge of GCC, apply for admission, see an adviser to discuss appropriate course work, and register—all in one facility.

Seeking advisement

The main purpose of the Glendale Community College's Advisement Center is to help the students get from point A to point B in the shortest amount of time.

Please see ● **Occupy** / back page

President confident in future

By Randy Cordova

"I feel we have a great deal to offer and can provide a great educational experience for the incoming student," said Dr. John R. Waltrip, president of Glendale Community College.

Waltrip believes there are advantages to attending a community college. "If you need personal attention in a class," he said, "you'll find it at GCC because the classes are smaller and our teachers are very well qualified."

"It's a little easier for high school students to make the transition to a school like Glendale (compared to a university)," Waltrip continued.

The president talked about the profile of the community college student. "A feature of community college education for the past few years has been the 'older' student," he said. "It's a change in the world. People come back to school for retraining for a new job, or to get into a brand new line (of work)."

According to Waltrip, the average age of the GCC student is 30.



“We’ve had the High Tech Center under way on a trial run for a semester now. We should really be getting into high gear this fall.”

**—John R. Waltrip
President, GCC**

Future Plans

Waltrip spoke about plans for GCC the 1987-88 school year.

"We've had the High Tech Center under way on a trial run for a semester now," Waltrip said. "We should really be getting into high-gear this fall."

Waltrip pointed out the 31,250-square-

foot facility of the High Tech Center is working out very well, with the computers being used regularly by the students.

GCC continues to work with educators and business people on the southwest side of the Valley to start in the planning for the

Please see ● **Future** / back page

Meet the Deans:

Four deans head separate areas at Glendale Community College, but stay united in purpose

Lopez: Working with programs ranging from Capstone to low-impact aerobics

By Gerri Fiedler

A strong focus on adult literacy is upmost on Dr. Homero Lopez's mind at the beginning of the new school year.

As dean of instruction for arts and sciences, Lopez is responsible for all the instructional areas that are not considered occupational programs—from chemistry to aerobics.

In order to assist adults who lack basic literacy skills—reading, writing, mathematics and communication—GCC is teaming with other colleges, agencies that provide literacy services, and business and industry.

The new Literacy Center in the Liberal Arts Building will be the hub of Adult Basic Education (ABE) on campus.

Not only is GCC's regular ABE course offering being expanded and revised, but a joint project with Rio Salado Community College and the Maricopa County Chapter of Literacy Volunteers of America will bring free literacy instruction and tutoring to the campus and the community.

In another cooperative venture with Rio Salado, plus Digital Equipment Corporation, GCC will be piloting an instructional program to teach "work-related" basic skills to entry-level assembly workers at a Digital plant in northwest Phoenix.

New classroom buildings

Two chain-linked compounds on campus—one on the east, one on the west—are the sites of two new classrooms under construction, indicating growth in student enrollment.

Rather than being the arena of certain departments, Lopez said they will be general classrooms to accommodate the overflow in math, English, speech, reading, psychology, physical education and social sciences.

Computerized instruction

Lopez continues to support proposals that keep pace with computerization in

education.

He is especially enthusiastic about the new math computer lab, known as The Math Solution, established on designated pods in the High Tech Center.

Computers, professors, and tutors will come to the aid of students who are wrestling with mathematical problems and concepts.

Lopez continues to enhance computer use in the labs that were established last year—the English Lab and the Writing Center in the High Tech Center, and the labs in the biology department and the Fitness Center.

A complete set of computerized instructional software for PSY 101, Introductory Psychology, will be written by two GCC faculty members, Steve Cooper and Duane Reeder, together with faculty from Phoenix College. The project will be funded by Maricopa Community Colleges.

The Capstone Course, an idea Lopez has supported since its inception in 1985, is being expanded and revised, based on student evaluations collected at the end of the charter session in the spring.

"The American Dream" will theme the course again this year. Designed to be taken in the final semesters, the course is a refresh of the total program required for the associate of arts and the associate of general studies degrees.

Low-impact aerobics

Lopez, whose trim physique, sports bag in hand, is a familiar sight around the Fitness Center, is pleased to announce a low-impact aerobics program that will be offered on an "open enrollment" basis from early morning to late evening.

"Just like the Fitness Center," he said. The dean expects the enrollment in aerobics will triple in size during the first year.

Future Plans

Looking to the future, Lopez's main involvement is what is being referred to



"We want to have arrangements in place and functioning for our students to flow smoothly between the two institutions."

—Dr. Homero Lopez

as "HTC-2," a facility "even better than HTC," the High Tech Center which opened in January.

The building will be the new home for mathematics and business and will include classroom space and lab areas equipped with the most innovative technology available for teaching.

Another bright spot in the future of GCC is the anticipation of a close working relationship with ASU West when its campus opens in 1989 or 1990 at 43rd Avenue and Thunderbird Road.

Randolph: Training community with marketable skills

By Randy Cordova

What makes an occupational program?

According to Phillip Randolph, dean of occupational education, it's a curriculum designed to provide employment skills or entry into the work force, with most of the occupational programs being able to be completed in two years or less.

The dean's job covers administration of business, engineering, technology, nursing, human services and the library technology program.

Traditional business courses at Glendale Community College have taken a new twist with computers being added to the curriculum.

"In business education ten years ago, the largest application (for computers) was in the data processing program," said Randolph.

"Now we find computer application in all of the business courses, from typing to microcomputer accounting," Randolph continued.

The latest example of the widespread use of microcomputers is in GCC's typing program. Typing is now taught on microcomputers instead of on the traditional electric typewriters.

"It's a significant change," said Randolph. "Where there had been two rooms of typewriters, those rooms are now full of micros."

According to Randolph, some of the credit for the upgrading must go to the GCC business faculty, which includes "some of the most creative, energetic and visionary people when it comes to staying abreast of the most recent technology in the business world."

Another innovation in the business department is the existence of open-entry/open-exit classes—classes in which students have flexible starting dates, work at their own pace, and end on their own schedule.

"That's very avant-garde as far as business disciplines go," said Randolph, "because, traditionally, business courses are very structured."

GCC's business programs usually have a two-fold purpose: a two-year business administration transfer program to a four-year college; and many two-year associate degree programs in specialized business areas.

The business department works closely with the state universities to ensure that GCC's courses merge with the four-year program.

According to Randolph "it requires a lot of communication with the folks at the universities," but course transferability is a genuine concern of the business department.

Randolph expressed pride in other areas of the occupational department. GCC has recently added the Ford Automotive Service Education Training (ASSET) program as a companion to the General Motors Automotive Service Educational Program (ASEP).

In both programs, students alternate eight weeks of campus training at GCC's auto department with eight weeks of working at a sponsoring auto dealership.

The dean also expressed pride in the nursing program, which "has not only done an exemplary job in training and preparing students, but also in aligning itself with ASU West to provide a smooth



"It requires a lot of communication with the folks at the universities."

—Phillip Randolph

transition for students who are pursuing a four-year nursing degree."

GCC's expanded programs in occupational areas offer students the opportunity to keep current with the community's changing requirements for employability.

Christiansen: Handling administrative services

By Shari Singer

"You could have carved my heart out when we had to close the High Tech Center down at midnight rather than 2 a.m.," said Dr. Larry K. Christiansen, dean of administrative services.

Christiansen's enthusiasm, intensity and excitement for serving students and faculty are "infectious" for anyone discussing GCC with him.

As dean, Christiansen is responsible for non-instructional areas including the following: food services, bookstore, fiscal matters, marketing and public relations, security, computer services, Veterans affairs, admissions and records, financial aid, student services and personnel.

"We try to provide a broad-based set of services," he said. Christiansen is responsible for all non-instructional aspects of the college that the three instructional deans (Staten, Randolph and Lopez) don't deal with.

He believes students feel good about their school when administrators enhance service as much as possible by removing the "red tape," and focusing on the instructional aspects.

A one-stop-shopping concept to improve customer service is the goal behind creating the Center for Information, Advisement and Registration, all of which will be housed under one roof.

In his role as administrative dean, Christiansen works with the coordinator of marketing and public relations to develop a full promotional plan that includes radio and television spots.

In addition, he works closely with the fiscal agent, the instructional deans and the department chairs to decide how money is spent.

The dean feels GCC has benefited from the decision to put money matters in the



"We try to provide a broad-based set of services."

—Dr. Larry Christiansen

hands of the individual colleges rather than at the district level.

With all his varied duties, the dean focuses mainly on fiscal operations, computerization and admissions and records "because they are not only the most identifiable, but also because these are the areas most people come in contact with."

One of the keys to GCC's success, according to Christiansen, is working with administrators who are futurists instead of people focusing on the past.

GCC excellence is also due to a hard-working veteran staff, a president who really cares, and a concept of "customer" service, the dean said.

Christiansen is a dean with tangible, progressive plans for Glendale Community College.

Compiled from additional reporting by Michelle Cleland.

Staten: Monitoring curriculum, adding new programs, evaluating instruction, coordinating with ASU West

By Gerri Fiedler

As dean of instruction, Dr. D. Jean Staten is constantly monitoring the curriculum for needed changes, eliminating obsolete segments, adding new programs, updating old offerings, and putting proposed changes into effect.

Staten sees her position as being at the heart of the college's academic program. She works in close cooperation with Dr. Homero Lopez, dean of arts and sciences, and Phillip Randolph, dean of occupational education.

Faculty evaluation

Evaluation of instruction is closely tied to the improvement of curriculum. This year will begin a second three-year cycle during which all faculty members will have gone through a thorough evaluation process.

"Anything we do that improves classroom instruction is very vital to the college," Staten said.

She finds it rewarding to work at Glendale Community College because "we have so many master faculty reaching out with the new technology, and suggesting new ways we can change to make our students graduate with the cutting edge skills."

Staten accepts the challenge of Dr. Paul A. Elsner, Maricopa Community Colleges' chancellor, to move into the technological era, but she emphasized that at Glendale high-tech is being applied in low-tech areas, such as computerized labs to improve instruction in reading and writing.

The educator thinks it is an exciting time to be at the community college level, especially at GCC. "We are unique in that we're a leader in our district in so many areas," she said.

Computerization

In a bold move to bring technology to every faculty member's finger tips, com-

puters are being installed in each instructor's office.

A broad advisement program for students will be possible through special software for the faculty computers. It will enable every teacher to pull up students' complete official records, and conduct advisement at their own office computers.

The program is known as Monitoring Academic Progress, and will be especially valuable in advising students who bring credits from other colleges.

Training of all staff and faculty will be required to put the Monitoring system into effect. It will become a part of the Students Information System software package currently being used for the building of class schedules and student enrollment.

Staten is the liaison with ASU West, a two-year upper division branch of Arizona State University which is under construction at 43rd Avenue and Thunderbird Road.

Staten works closely with Dr. B. Dell Felder, ASU West's dean of faculty, to build and develop GCC's curriculum so it will easily piggy-back onto ASU West's upper division offerings without students losing community college credits.

"If we acted in a vacuum," Staten said, "it wouldn't benefit the student very much."

Staten is concerned that GCC maintains strong programs that feed into the upper division programs at ASU West.

"It is imperative that we maintain quality education at GCC," Staten said.

Library automation

The instructional dean asks that this year students be patient with the staff in the John F. Prince Library at the heart of the campus.

President's Council: People with vision

By Gerri Fiedler

Reflecting on the accomplishments of the President's Business and Industry Council, Dr. Renee Rodgers-Barstack said, "When I see the things that were just ideas a few years ago, and have now become realities, I realize the council is at least partially responsible."

Rodgers-Barstack, career educational services director, was reviewing the group's involvements since its inception in 1984—the High Tech Center, Valley Bank registration booths, an alumni organization, campus beautification, the Goodyear-Litchfield Park Community College Center, the Fitness Center, and a Visitors' Center.

"I guess we're a real visionary group," Rodgers-Barstack concluded.

"The idea of partnership is alive and well and functioning," said David Briant, chairman of PBIC and program manager for employee benefits at the Honeywell-Bull plant at Thunderbird Road and the freeway.

"GCC sits in the middle of a total community system," Briant said, "and we (PBIC) provide a continuing stream of information concerning operations under way in our businesses."

The Council was formed in 1984 as President John R. Waltrip's advisory group in planning the school's future.

It is made up of nearly 100 people

from Northwest Valley businesses, industries, government organizations, trade associations, chambers of commerce, ASU West, the legislature, the press, and high school students.

As president of the Council, Briant is articulate and enthusiastic about linking idea people from both the college and the community.

For the 1987-88 school year, PBIC members are divided into four groups, with a GCC dean plus a community leader heading each committee:

• **Planning and future directions.** Dr. D. Jean Staten, dean of instruction, will team with Don Scree, center director for the Phoenix Job Corps, to consider collegewide planning relating to community needs in the workplace.

• **Development and linkages.** Dr. Larry Christiansen, dean of administrative services, and Tom Camp, owner of ECO-Systems, will head the group that will address legislative issues, campus beautification, the High Tech Center, the creation of an alumni association, and a Visitor's Center.

• **Academic excellence.** This committee, headed by Phillip Randolph, dean of occupational education, and Jack Rose, chief of Glendale police, is planning ways to recognize outstanding students and faculty.

Please see • Council /back page.

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"We have so many master faculty reaching out with the new technology, and suggesting new ways we can change to make our students graduate with the cutting edge skills."

—Dr. D. Jean Staten

the '80s?" and "How do today's students learn?"

Dean Staten's objective is to see that the community college is evolving as the community evolves, and she wants to be sure GCC keeps up with the cultural, economic and technological changes.

Staten joined the faculty of GCC in 1975. She became dean of instruction in the fall of 1980.



General Motors technicians learn the newest automotive systems on this \$57,000 Cadillac Alante. The body is hand made in Italy and assembled in the United States.

Occupational specialists train in technology dept.

By Randy Cordova

"The most critical years of your education are your two years at a community college," said Rene Catalano, chairman of the technology department.

"These years will help decide what your career will be, what your income will be, what your lifestyle will be like," Catalano continued.

Areas in the technology department include automobiles, drafting, administration of justice, home economics, aeronautics, electronics, fire science, industrial television, quality control, and agriculture.

"If you're interested in a certain occupation (area), now is the time to find out if it's what you want to be doing for the rest of your life," Catalano said. "That's where we come in."

Glendale Community College was recently acknowledged as having a high quality technology program when the American Board of Engineers and Technology (ABET) renewed its accreditation.

GCC's programs in the technology department are aimed at two kinds of students.

Two-year programs are designed for students who attend the community college, then go straight into their chosen field.

For students who choose to go for a four-year degree, there is the "Two Plus Two" program, where the two-year degree piggy-backs with ASU West.

Catalano discussed several offerings in his department and the accomplishments



GCC's trademark comes from palm-lined walkways.

of faculty and students.

Drafting

The drafting courses will now be held in the high tech center, with state-of-the-art computer hardware and software planned for the courses.

A computer system called AutoSketch will be used as an introduction, with students then moving on to the AutoCAD (Computer Aided Drafting) system.

Administration of justice

"With cities expanding, you're going to need police protection," said Catalano. "It's a growing field."

Police officers have taken advantage of the program, with some police officers returning to college to receive their degrees.

Home economics

According to Catalano, the term "home economics" is out-of-date. "This area has expanded way beyond the home and family area," the department chairman said. Home economics now has courses dealing with food preparation, interior design, nutrition, and clothing.

"GCC home economics has moved forward to meet the demands of modern society," Catalano said.

Automotives, electronics

The addition of the Ford program will add a new dimension to the existing General Motors Automotive Program.

The electronics department has continued to add new technology, making it one of the most advanced programs at GCC.

Agriculture not just for farmers

Wide-appeal classes offer benefits for more than course majors

By Randy Cordova

An agriculture complex was built three years ago in the orange grove on the northeast corner of the Glendale Community College campus.

The silver metal-framed building, which is accented in fire-engine red, includes 3,422 usable square feet of laboratory, classroom and office space. A 1,600-square-foot greenhouse was also completed, as well as a new bathhouse for plants.

Areas around the building will be planted in different types of turf, using various soil compositions.

The agriculture department uses computers to identify plant species and to design landscaping and irrigation systems.

Basic courses cover topics on animal feeding, animal diseases, irrigation and water management, landscape construction and maintenance and techniques, soil evaluation, interior growth, and development of plants.

THE INSTITUTE For Business, Industry and Technology

Links college and community

By Gerri Fiedler

The logo is clean and bold, communicating the impact the department has on the business community.

THE INSTITUTE for Business, Industry and Technology brought little green John Deere lawn mowers to campus, trained people for telephone survey work and clerical positions, upgraded the skills of pest control professionals, and this fall will administer the fourth General Motors and the second Ford automotive training programs.

Directed by Stanley J. Grossman, THE INSTITUTE was established at Glendale Community College in 1984 to provide training and development programs for business, industry and government groups.

Seminars may be sponsored by the government, such as the Service Employment Redevelopment (SER) clerical program; or by corporations like the General Motors "after-market" automotive program which trains technicians to take over when the dealer warranty expires.

"Less than 20 percent of the cars are serviced by the dealerships," Grossman said.

However, more and more people are being serviced by dealers because of the advanced technology. The average car has three on-board computers, Grossman said.

He proudly pointed out the \$57,000 Cadillac Alante which is a GM demonstration car. It has a computerized dashboard with 48 different button positions, and includes an automatic diagnostic check by a statement on the screen: "And the best thing of all—it's a Cadillac!"

Classes and seminars may be credit or non-credit, depending on the requests. Costs are paid by the government, by businesses or industries, or by individuals.

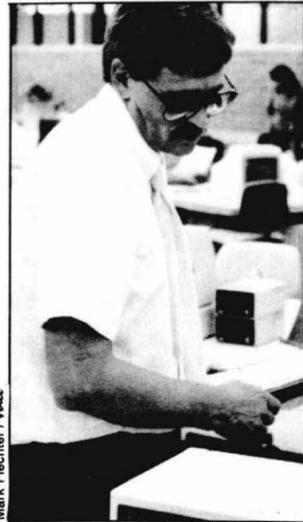
Nearly 100 different programs were arranged by THE INSTITUTE last year, with about 1,500 people enrolled.

"Each has become a better employee," Grossman said, "sharpening the company's competitive edge."

The telephone survey and clerical block programs, which trained the disadvantaged, had an 85 percent placement rate.

Grossman's job is to show the business community ways the college can interact with them. He locates organizations that require an educational program, and tries to arrange it at a reasonable cost.

"They are really surprised when we re-



Stanley J. Grossman: INSTITUTE Director

pond to their needs," the director said. The services of THE INSTITUTE are grouped into four categories:

- **On-site training:** Short-term programs, seminars and college credit classes taught at the business location. Courses are designed to fit the company's need, using their equipment and facilities.
- **On-campus training:** Seminars, workshops, courses and programs in business, technology, fitness and human services. Courses and programs can be designed to fit a business's specific goals and needs. Credit courses apply toward professional certification or college degrees.
- **Professional seminars:** Professional and management development seminars offered either on-site or at the college. Topics might be "Data Processing," "Managing Motivation for Greater Productivity," "Team Building" or "Computer Security."
- **Professional resources:** The college offers special resources for training, assessment, special consultants, equipment demonstrations, career counseling, and job placement.

Field trips to the Integrated Ag Systems Laboratories, plant nurseries and local aloe vera farms are often part of the curriculum in the agriculture department.

Agriculture students can earn both money and credit in the Cooperative Education Program. Employment at a feed store, nursery, landscaper, or other agriculture-related business will qualify.

According to Van Meter, work at a golf course also qualifies. One student in the past worked at a Paradise Valley golf course, working with and installing new irrigation systems.

Credit is received by completing specified, on-the-job objectives agreed on by the student, employer and Cooperative Education instructor.

No special requirements are needed for students to enter into an agriculture degree.

Many courses are accredited and fully transferable to major Arizona universities.

Nursing program expands with ASU West

By Jennifer Jones

A track of nursing courses designed for students who wish to complete the first two years of a four-year program will soon lead to a bachelor of science degree in nursing at ASU West, according to Elaine Laeger, director of nursing at GCC.

A new cooperative program with ASU's westside satellite will allow GCC students to begin 100- and 200-level general education requirements this fall.

"Glendale wants to be on the cutting edge," said Laeger.

Laeger said to the best of her knowledge, Glendale is the first community college nationally to establish this kind of cooperative program with a university.

The first new nursing courses will be offered by GCC in the spring of 1988, and at ASU West beginning fall of 1989.

One advantage for those who start at GCC and transfer to ASU West is that the nursing education will be less expensive, according to Laeger.

In addition, a position in the nursing program at ASU West will be guaranteed to GCC nursing students after successful completion of lower division courses.

The current registered nurse associate of applied science degree, RN, will still



Elaine Laeger: Director of Nursing

be offered as a two-year program.

However, in order to keep pace with complex health care, nursing programs nationally are attempting to standardize.

Registered nursing to date has had multiple entry levels. A registered nurse could have a two-, three- or four-year preparation.

By 1995 there will be only two levels of nursing preparation: ADN (associate/assistant nurse) and BSN (bachelor of science in nursing for Registered Professional Nurse), according to a recommendation in the January 1987 report of

Arizona Nursing Manpower and Education Committee.

After 1995, it is anticipated that the registered nurse status for ADN graduates will be changed.

Currently, after ADN graduates pass the state nursing test, they are eligible to work as registered nurses.

"Over the years our graduates have done well on the National Council Licensing Examination," said Laeger.

The 1986 graduates had a 97 percent passing rate. The goal for the future will be to prepare both levels of nursing graduates equally well.

For the ADN student, five courses must be completed with a "C" grade or better before a student is admitted to the nursing program:

- Two years advanced high school biology or a semester of college biology concepts.
- One year high school chemistry or a semester of introductory college chemistry.
- One semester of college nutrition or equivalent.
- Two years of high school algebra or a semester of college algebra.
- One semester of computer usage or equivalent.

The program for 1988 reflects changes for enhancement of the math, English, writing and computer competency skills.

These general education requirement changes have been approved by the Maricopa Community Colleges.

Nearby hospitals and clinics are the site of training for clinical education.

General care is studied at John C. Lincoln, Maryvale Samaritan, Boswell Hospital and Thunderbird Samaritan.

Mental health and psychiatric care experience is gained at Maricopa Medical Center and West Valley Camelback Hospital.

Gerontology education takes place at Beatitudes Care Center, Lincoln Extended Care Center and Nurses Central Registry. Various physicians' offices are used for pediatrics.

The GCC program is accredited by the Arizona State Board of Nursing and the National League for Nursing, thus meeting both state and national criteria.

Laeger offers free lectures on nursing careers at intervals throughout the year. She and her faculty believe it is vital for students to consider all career options.

Call 934-2211, ext. 287, for information about the nursing programs.

Information contributed by Debra Wheels and Kim Williams.

Traveler: 21 years of culture

By Randy Cordova

The Traveler, a potpourri of student-created art, literature and photography, is Glendale Community College's creative arts magazine.

The highly acclaimed magazine is published annually at GCC. The upcoming issue will be the 21st volume.

In 1982 *The Traveler* received the top honor, the Medalist Award, from the Columbia Scholastic Press Association. It has received many first-place ratings from CSPA.

The judge's comment on the 1986 magazine was "very striking first impression, creates a nice intimate feel."

"*The Traveler* is paid for by students, published by students, and made by students," said Joy Wingersky, literary adviser for the magazine. English professors Jan Boerner and Diana Balogh also advise the staff.

Editors choose the art, literature and photography which appear in the completed magazine. Layout and design, typesetting and pastep are all student work. Only the printing is done professionally.

Entries for this year's *Traveler* will be accepted until Thanksgiving. After that date submissions will be considered for the following year's volume. A student must be officially enrolled at the time a piece is entered.

One selection each from the prose, poetry, and nonfiction categories will receive a cash prize of \$25. Second and third places receive \$15 and \$10, respectively.

Dean Terasaki of the art department will be adviser for art and photography.

Computers essential to business majors

By Lallah Ruth

Approximately 25 percent of the students take a business course here at Glendale Community College, according to Charles Milliner, business department chairman.

"All students, regardless of their major, should take a business course, because everybody is touched by business," Milliner said.

The greatest change in the business department in recent years has been the inclusion of microcomputing in the curriculum.

"In fact, we are the major user of the microcomputers in the High Tech Center," Milliner said. "We probably constitute 90 percent of HTC."

To ensure that GCC business students become computer literate, students are required to take at least one computer course for all programs in the department.

"Computers are an integral part of every business," said Milliner, "because to be competitive in business, it is necessary we use all the technology available to us."

There are approximately 80 microcomputers located in the Business Building, Room 106 and 107. In addition, two mainframe computers are connected to 40 terminals for student use in the business department.

Typewriters have become obsolete as all typing courses are now taught on microcomputers located in the Business Building, Room 109.

Milliner believes the transfer program is the most important part of the department's offering because of the large number of students seeking a four-year degree.

"We see our two-year program growing in importance with the development of ASU West," Milliner said. "Students can take the first two years here and the latter two there to receive their bachelor's degree."

Students are careful to plan their program with a business adviser or counselor. Credits taken at GCC are fully transferable to Arizona State University, Northern Arizona University, and University of Arizona.



The Business Building is reflected at dusk after the grounds have been irrigated. The two-story structure, attended by 25 percent of the GCC's students, is the only high-profile silhouette on campus.

Business courses are offered in accounting, computer information systems, management, marketing, office administration, public relations, real estate, and banking and finance.

There is also a one-year certificate program in word processing.

In comparing the college's business department with trade schools, Milliner said GCC students receive a broader business background, in contrast to the narrow specialization of a trade school. Milliner has been with the college business department since 1969.

estate, banking and finance, retail management, and general business.

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Dr. Kent Staheli, Fitness Center director, and Kathy Killingsworth, secretary, check individual student workout forms

Get fit in GCC health club

By Brian Alcorn and Shari Singer

The Fitness Center at Glendale Community College will begin its fall program Aug. 17 with orientation and assessments for new students. The facility will open for regular semester workouts Aug. 24. The Center, which provides state-of-the-art exercise equipment and individualized instruction in an executive health club atmosphere, will be entering its sixth semester.

According to Dr. Kent Staheli, Fitness Center director, the response to the program, one of six in the district, has been favorable.

"I think with the confidence we had in the program, we expected people would find out they were receiving a great value for their dollar," he added. "I'm really overjoyed they were that pleased with it."

According to a survey conducted by the Maricopa Community College district, 99 percent of those who enrolled in the center said they would recommend it to a friend or relative.

Benefits of the program

Fitness Center participant Lesley Luffman says that the center has more to offer than just fitness.

"It puts you in a positive frame of mind that goes over into other areas of your life," she said. "And everyone here is so enthusiastic about being fit. They

know you don't have to be athletically gifted to be fit—exercise is for everyone."

GCC faculty and staff also have high praise for the fitness program.

"The Fitness Center is accessible, well organized and the concept is excellent," said Counselor Chuck Zontanos. "We don't always realize it, but students lead very stressful lives. I always recommend a physical program for fighting stress, and the Fitness Center is as good as any."

The 6,000-square-foot facility, formerly a gymnastics and wrestling room, was remodeled with college funding. The district supplied \$105,000 to purchase the equipment.

Individual fitness assessment

A fitness assessment, which measures blood pressure, aerobic fitness, strength, flexibility and percentage of body fat, is required of all students and is used to determine their individualized fitness program.

Growth and popularity are indicative of the Fitness Center's success. Enrollment soared from 900 students during the first semester of operation to more than 2,000 during last spring.

"This success can be attributed to an attractive, well-equipped facility, proven scientific workout programs, the fitness assessment and its accompanying computerized workout profile, and professional faculty and staff who provide excellent instruction," Staheli said.

Chemistry is computerized

By Jana Thorson

Chemistry isn't what it used to be when Dr. Frankenstein created his monster.

Chemistry classes at Glendale Community College are more than studying charts of the elements, changing temperatures from Fahrenheit to Celsius, or watching bubbling flasks.

Better doesn't mean bigger

Classes in Fall 1987 will include the newest micro-organic chemistry kits and continuing use of Apple computers in the chemistry labs.

"The organic chemistry kits are reduced to a smaller degree than the kits previously used," explained Marilee Murray, new chemistry department chairwoman, "but they are less dangerous, less smelly, and students have a lesser chance of exposure to the chemicals."

There is also a computer lab which has 15 Apple II computers. These are used for

lab and computer-assisted instruction.

The department is ordering the newest computer blackboard program for the Apple computer to use in chemistry lecture classes.

This is the Apple computer's third year on campus in the chemistry labs.

Beginner's course offered

There are several levels of chemistry classes offered at GCC. One unique to GCC is Preparation for Chemistry, CHM 100.

"This course is designed for students who have never had chemistry before, but are pursuing careers which require other chemistry courses," Murray said.

CHM 100 teaches the fundamentals of chemistry and prepares students for General Chemistry 151 or 152. There is no prerequisite for the 100 course.

Please see • Chemist/ back page

Theater season varied

By Jana Thorson

There is something for everyone in the Glendale Community College theater arts program. According to M. Peter Overson, theater director, there are a wide variety of productions planned for the 1987-88 year.

Tryouts for plays are held about six weeks before performance dates. Anybody may try out, so long as they are registered on campus, said the director.

This fall the drama department will present its 102nd production, a talent showcase scripted by Overson.

The first major play will be presented in November.

A series of one-act plays is presented by the Acting II class at the end of every semester as the final exam.

The students select the plays themselves, some even writing their own scripts.

"I let them do it on their own," says Overson. "I act only as adviser or director-in-chief."

Because this is educational theater, plays presented on campus have ranged from "A Theater of the Absurd Farce," to the "Sly Fox" production which was an update of "Volpone" written by Ben Jonson, a contemporary of Shakespeare.

In the stage craft classes, Overson has students study all technical aspects of the theater.

Classes in stage make-up require projects to be completed every two weeks, including help with productions.

Night classes are available, as are

theater production classes for those students who have completed other courses, but who still want to be in or help with the productions.

Students receive credit for independent study. All classes transfer to other university drama programs, emphasized Overson.

The theater director strongly encourages theater students to learn a foreign language, especially French. Overson takes special care in training students to emulate foreign and regional accents correctly, using textbooks, tapes and records from a large library of major dialects.

At the American University-College Theater Festival in 1983, the school was complimented by the adjudicators for the German accents used in the play "The Physicists."

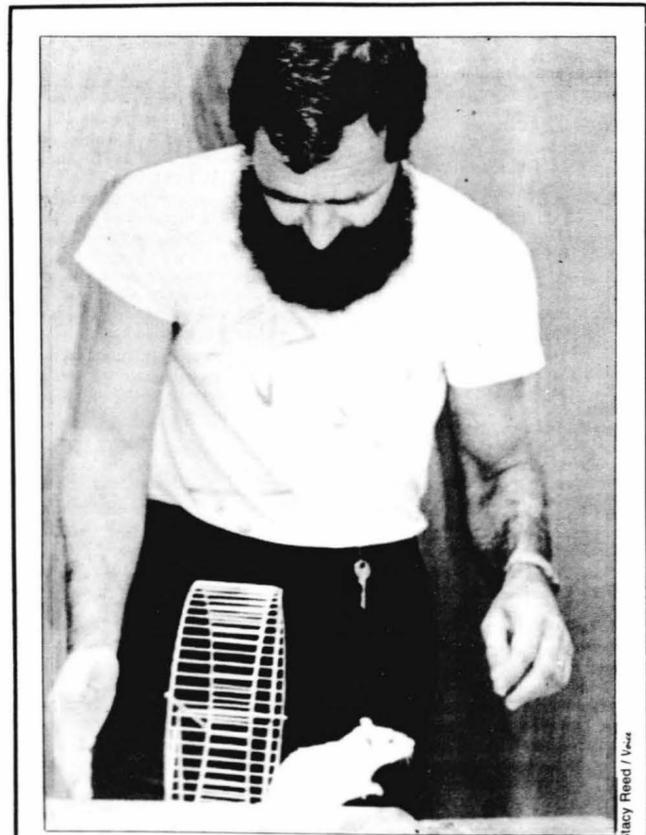
Overson has not written any plays himself, but he has just finished directing and producing his 101st play.

"I am much better at recreating someone else's," he said with a smile.

Asked if he would ever consider changing his job, he said, "No, I love it...I am getting paid for doing what I love to do. Theater is my life."

Overson has been teaching in the district for 23 years, 22 at GCC. He began by teaching speech and music classes at GCC, gradually introducing theater classes as these became possible.

He holds a master's degree in theater and music from Brigham Young University, and worked for five years in the theaters of New York City before moving to Phoenix.



The Rat Pack

Dr. Irwin Westenberg, GCC psychology instructor, works with a member of the "Rat Pack." He has established an association that will bring together community college and university student researchers and their findings. The psychology department also has a new chair-

woman, Ann Brandt, who has taught at GCC for three years. Elsewhere in the department, Steve Cooper and Duane Reeder were awarded a JACEP grant with Phoenix College to develop a self-paced computer tutorial program for students.

Capstone caps off education for community college students

By Jana Thorson

Capstone, an innovative course which was added as a degree requirement in fall 1985, will be offered again during the '87 fall semester.

The course was designed to help balance students' education by integrating, synthesizing, evaluating, analyzing, critiquing, comparing and contrasting the knowledge students have learned in their total program at Glendale Community College.

"This fall's class has been modified based on student evaluation and what teachers felt needed change," said Marilee Murray, Capstone coordinator. The charter session was held in the spring.

Any continuing students who began in August 1985 or later, and are working toward an associate of general studies or an associate of arts degree, must complete this course with a grade of "C" or better before graduating.

Students have the option of receiving either two or three credits. Both daytime and evening sessions are scheduled this fall.

A computer check will anticipate enrollment so the needed sections can be scheduled.

Course goals

The main goal of the course is to help students use what they have learned at GCC to make judgements and decisions.

"We wanted to emphasize expression in both verbal and written form," said Murray.

There were some rough edges in the first round of the course, Murray admitted,

but when talking of the charter session last spring, she says most of them have been worked out.

'The American Dream'

The theme "The American Dream" will be continued another year. "The students liked the challenging topics and issues," said Murray.

Rebecca Harrison took the class last spring. "I thought it was very good in that it integrated a lot of different subjects in one class," she commented.

"You learn not only from the panel of instructors but from other students as well," Harrison added. "I liked it."

For the three-credit option, students must complete a major written project. No project is required for the two credits.

Murray recommends students take the three-credit class because it will transfer directly to Arizona State University as their sophomore literacy requirement.

The course meets three times a week: two regular lecture periods and an additional section for students working on the special project.

Murray said student evaluations show they liked the varied format of the course, which incorporated activities other than just lectures.

In the spring semester, the course will be offered in another section possibly on Tuesday and Thursday and coordinated with the International Studies program.

Regular instructors for the course will be Jan Boerner, Hanes Kvaran and Marilee Murray. Ellen Huft, Gary Sievers, and Robert Thompson will be assistant instructors.



Dr. Stephen Williams, biology department chairman, dissects a cat in the laboratory for Biology 100, a course for non-majors.

Biology: not cut and dried

By Gerri Fiedler

Biology students will get acquainted with a tarantula named Priscilla, a salamander named Antigone, and a giant hairy scorpion that glows under ultraviolet light.

"Students get a big kick out of looking at this kind of stuff," said Dr. Stephen Williams, biology department chairman. He was pointing to the aquariums and terrariums that harbor the living specimens used to teach biology. "It generates a lot of questions."

Non-biology majors may take a survey course that has more of an ecological slant than the specialized biology for majors and pre-health service students.

Williams believes the non-majors especially should be exposed to living animals, rather than just pictures in the book. They also can expect to do some dissecting.

The department chair said they almost can't keep up with the number of non-majors who take biology to fulfill their science general education requirement.

The biology department also has living green things in a small glassed-in house behind the Life Science Building. One popular experiment with plants is the cloning of carrots.

In contrast to learning with living specimens, students at GCC have the advantage of tailor-made slide-tape packages and computer software that completely review BIO 181, the course for majors.

Williams highly praised Dr. Betsy Cooper's creativity in developing computer programs featuring animation and brightly colored graphics that illustrate such concepts as how electrons move from one molecule to another in the cell membrane, or how a gene works.

"The software she's developed is very

well thought of," Williams said.

A question is posed on the screen for the viewer to answer. If the answer is wrong, the program has a built-in hint, and the student gets another chance to answer correctly.

If the second answer is wrong, a review automatically appears on the screen to help the student learn the information.

The packages of audio-visual-computer aids in biology include lectures, pre-tests, slide-tape modules, and post-tests—all designed to teach through questioning and explanations.

They are at the disposal of students to use on their own time for self-paced learning.

The department chair calls the animation "incredible." He says there are students who just read them over and over so they can get a feel of how some of the physiological mechanisms work. "They can see the stuff in action," he said.

Computer-wise, GCC is one of the best-equipped departments in the United States, according to Williams. Not only do students use computers as biology tutors, but they may also use the lab for written work, even for classes other than biology.

"We really don't assume that they know anything about computers," Williams said. "We spend time showing them how to use it."

Sharon Eisenman, a work study student who plans on entering U of A medical school, was looking for worms in a pail of dirt. One of her jobs is feeding the live animals.

Sharon said GCC was recommended to her because of the quality reputation of the department.

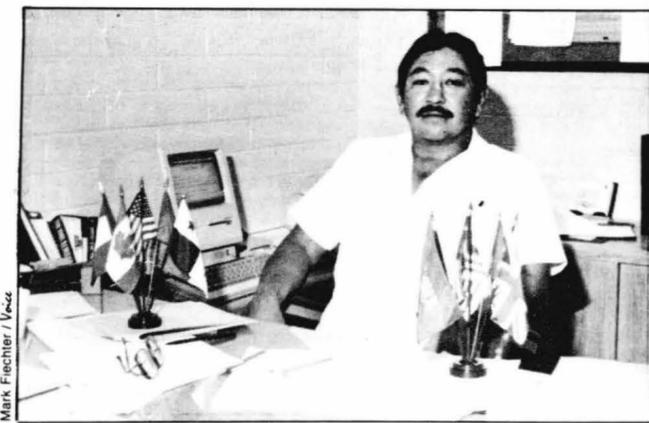
She said the very demanding biology classes have given her an idea of what to expect when she transfers to the university.



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Alberto Sanchez: Director, Research and Development; Coordinator, International Studies Institute.

Research and Development evaluates statistical data

By Michelle Cleland and Mary Mickle

The Research and Development Office uses statistics for a variety of reasons.

The office directs and coordinates institutional research, locates external funding, helps develop proposals for grants, and evaluates programs, according to its coordinator, Alberto Sanchez.

Most of Research and Development's services are based on numbers, such as the demographics of people attending Glendale Community College.

"Institutional research involves data about the college and analyzing that material for managerial use, funding and evaluation," Sanchez said.

"I incorporate a lot of work with Admissions and Records for obvious reasons," Sanchez said.

"As for funding, there are scholarships, foundations, and federal and state

grants," Sanchez said.

According to Sanchez, Research and Development is a service dealing with the whole college.

The Research and Development Office monitors students who transfer to a university or drop out of school.

The main goal is to improve the quality of the student's education, Sanchez said.

Research and Development will be experiencing changes in the future.

"We'll be using more computers in the analysis of information about our student body," Sanchez said.

Sanchez worked as an anthropologist in Peru and is completing doctorate of philosophy studies at Stanford University.

Sanchez is also director of the International Studies Institute.

Four years ago perceptive faculty and administrators started a campuswide computerization program—it was indeed an idea whose time had come. Now the High Tech Center, a milestone in that program, has an "army of assistance" to help students put the byte on education at Glendale Community College.

"This project reflects an innovative delivery of instruction," said Dr. Larry K. Christiansen, dean of administrative services.

The basic premise involves people using technology to cross-cut disciplines, to improve instruction, to get maximum use of equipment, and to provide students maximum access.

Mark Montanus' "open-entry/open-exit" teaching concept won him the title of Innovator of the Year in 1984-5 from the Maricopa County College District.

"We wanted an intensive lab situation where people could start classes at anytime—not just twice a year," said Montanus. "Then they could work at their own pace during hours that were convenient for them."

Glorifying that basic philosophy, the muted whisper of computer keys drifts through this free-span building, 109 hours a week.

In the center, and dominating the fully-carpeted building, is a pit, approximately two-thirds the size of a football field. Twenty-eight workstations, arranged like three-petaled flowers, are designed to give students access to 336 microcomputer terminals.

According to Chuck West, coordinator of faculty and staff computer literacy, HTC is in its second phase of a three-phase purchasing plan.

"We are spending \$500,000 for new equipment this summer for the fall semester," West said.

HTC plans include an overall equipment commitment in excess of \$2 million. The approximately 250 pieces already in place—VAX terminals, Apple II's, Macintoshes, and IBM compatible micro's—make an awesome display.

Students of many disciplines work in this environment. A business major and a nursing major, or an English major and an art major can work side by side on a variety of computer programs.

They interact with teachers, lab assistants, technicians, and each other, creating an invigorating educational camaraderie.

Meet the "pit boss"

Doris Velasco, manager of instructional operations, oversees activities in

the sunken laboratory. She jokingly says the PIT is an acronym for Perfect Instructional Terrain.

Velasco began her first day at GCC approximately four years ago as a microcomputer technician in an empty lab.

The Apples (Apple II computers) were delivered about 9 a.m. Frantically, Velasco and the lab assistant began unpacking and assembling the electronic components.

As they finished one row (3 or 4 computers), Montanus marched in with a class and gave his first orientation.

Velasco is now affectionately known as the "pit boss" to the army of more than 100 people she supervises.

All of these people—teachers, lab assistants, and technicians—are willing to help.

"Students can raise their hands, holler, or tackle them," Velasco said.

A six-foot wall, constructed of oak and brick, surrounds this computer pit and forms a three-foot railing for the upper-level concourse.

Behind the glass walls

Glass walls separate the pit from the VAX area (Digital Equipment Company's name for this particular series of computer mainframe equipment), offices, a teleconference room, and a television studio on the north side of the building.

On the south side are the English Computer Lab, the word processing lab, the Computer Aided Drafting (CAD) lab, and the software library.

"It's like looking over a ship's railing, only there's an ocean of people using technology—and that's exciting," said Dr. Jim Jacob, coordinator of administrative computing.

The HTC will be the core of the campuswide computerization, and Jacob is responsible for eventually electronically linking every island in the HTC, every office, and every classroom on campus.

"The whole concept of technology is intertwined with the entire campus," West said. "It's not just an edifice for technology; it involves the faculty, students and educational system."

By Shari Singer and Jeri Walker



A computer couple on the concourse.

Welcome to High Tech



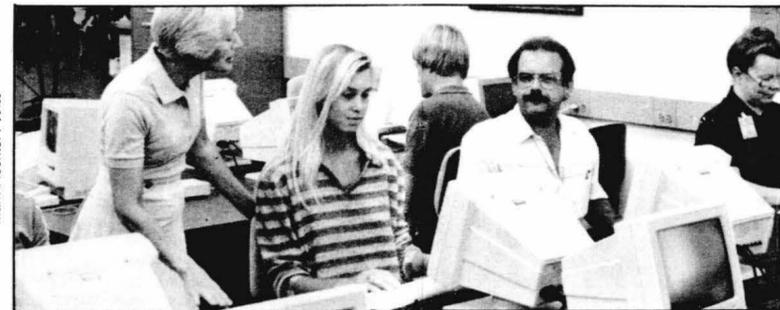
Dr. Don Bipse and a CAD machine.



Pit boss Doris Velasco with a student.



The 9,000-square-foot pit, with space for more than 325 terminals, is the hub of the High Tech Center.



Barbara Hackett, English Computer Lab coordinator, helps students strengthen their writing skills.

"It's like looking over a ship's railing, only there's an ocean of people using technology—and that's exciting."

—Dr. Jim Jacob
Coordinator of Administrative Computing

TV production rivals pros

By Shari Singer

Lights, camera and action will roll this fall in the new industrial television studio situated in the southeast corner of the High Tech Center.

Industrial television is a two-year program that is not all paper work and essay tests. It consists of 90 percent hands-on training and only 10 percent theory.

Classes range from simple script writing to full studio production, and all points in between.

Students can expect to learn script-writing, camera work, audio mixing, editing, cost accounting, and "the whole six yards," says Bill Davis, director of the industrial television program.

Learn 'hands-on TV production

Industrial television classes are "designed to teach hands-on TV production," Davis said. "It provides students with a salable skill and gives them the ability to serve on a production staff."

Davis says his program is very unique. "There's nothing quite like it west of the Mississippi."

After successfully completing the two-

year instructional program, students can earn an associate of applied science degree in television production.

Professional-calibre studio

Just the main studio of the new industrial television department, measuring 40 feet by 40 feet, is larger than the entire original area in the Library.

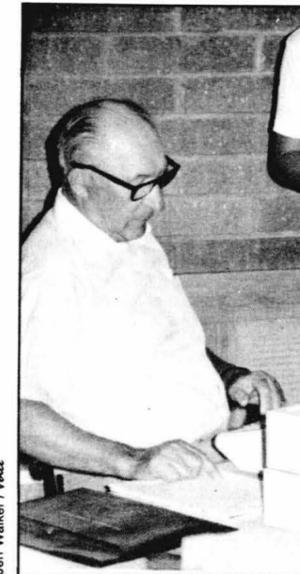
Davis said it will bring the department "more to the level of professionalism."

Davis wrote the program and designed the facility when he started working here in 1978. All the instructors in the program either have professional backgrounds or are currently professionally active.

Davis, who worked in network television in the 1950s, also manages Champion Video in Tempe.

Although the productions made in the industrial television program are, in Davis' opinion, as good or better than anything done at a cable studio or small business facility, they are not designed as television programming. It is strictly an instructional program.

According to Davis, the equipment is constantly being upgraded to the current state of the art.



A computer student with an Apple.

Teleconferencing: Link to the world

By Daryl James

Guest speakers at the High Tech Center won't be treated like normal guests when seminars and lectures are held inside the new Teleconference Room.

They won't be picked up at the airport. That's because guest speakers will

be talking from various places within the district, the state, the nation, or the world that have a link with GCC's audio and video teleconferencing equipment.

When completed, the Teleconference Room will have several tables equipped with microphones and speakers for interaction.

The second phase will include videoconferencing. Live, two-way audio

conversations and one-way video images can link GCC with individuals or groups of people at multiple locations.

Such a meeting was held for the first time at GCC on June 23 when nearly 1,000 receive sites addressed questions at speakers in Washington D.C.

Community VIPs participated with campus administrators at GCC.

Computer tutor offers math solution

By Mary Mickle

The math department will combine human and computerized tutoring this fall in the High Tech Center.

Tables 26 and 27 along the south wall of the pit will be set up for what Carol Barner, math lab coordinator, calls The Math Solution, a computerized math learning center.

One of the three-leafed computer islands will hold 12 Apple computers. The other will have eight IBM-compatible personal computers on two of its arms, and a tutoring desk on the third arm.

Drop-in tutoring—no appointment necessary—is offered by faculty, by experienced tutors transferred from the Learning Assistance Center (LAC), and by computers.

It will initially be used to assist students in MAT 055, Arithmetic Review, and 077, Introductory Algebra.

Human tutors will be available on a drop-in basis from 8 a.m. to 2 p.m. weekdays, and 5-8 p.m. on Monday and

Tuesday.

The tutors will assist students by explaining the mathematical problems, followed by practice on software or paper homework, Barner said.

The software will be available in the High Tech Center during all hours that the center is open. The programs will explain the skills and procedures needed by the student, then give them practice problems accompanied by hints and feedback, Barner said.

One future goal of The Math Solution is to offer one-credit or non-credit remedial courses, based on computerized tutorials, for students who do not need to take a full three-credit classroom course.

"This will allow students who need to polish on a certain math area, such as percentages, to do so without spending a semester in a regular course such as MAT 055," Barner added.

"We are not trying to replace the main Learning Assistance Center," Barner said. "We are just trying a new

format that will work well with a majority of students."

Those who need more individual attention will be referred to the LAC.

While the LAC provides tutors for one fixed hour per week, The Math Solution provides a variety of flexible tutoring whenever the building is open.

"One major reason for developing this lab is the hesitancy of students to get help before it's too late," Barner said.

Barner, with Dr. Homero Lopez, dean of instruction for arts and sciences, and other math faculty members, designed and developed the computerized program for GCC math students.

Barner said the GCC approach to teaching math puts the main emphasis on classroom instruction by qualified professors, using tutoring as a supplement to the traditional classroom.

This is in contrast to the self-paced program at ASU, which emphasizes independent study and makes classroom attendance optional.

Write right in English Computer Lab

By Shari Singer

"It's addictive," said Barbara Hackett, coordinator of the English Computer Lab and Writing Center. "Once students get addicted, they won't settle for anything less."

The source of addiction for Glendale Community College students is the English Computer Lab, located on the northwest corner of the High Tech Center.

Computer Aided Instruction (CAI), originally designed for students enrolled in English 071, will be available for students in English 101 beginning this fall.

The program enables students to utilize the computers during various class periods, as well as on their own.

In addition students can receive not only com-

puter instruction, but also assistance in all areas of writing.

Such areas include prewriting, composing and reviewing and revising.

As a learning device "we find students are taking the time to revise their work because it is no longer a chore," Hackett said.

The English Computer Lab is accessible from 8 a.m.-8:30 p.m., Monday through Thursday; on Fridays, hours are 8 a.m. to 4 p.m.

Students will be required to pay a \$5 lab fee. "Ideally, we want writing to be fun," Hackett said. "The whole concept really should snowball into other academic areas."

"How successful the program has been will be determined in the future," Hackett said. "Students exposed in English 071 will be the ones to promote computer use and 'infect' teachers and classmates with their enthusiasm for CAI."

By Gerri Fledler

CAD is one of the newest entries in the Scrabble game of high tech acronyms.

What does it mean?

Computer Aided Drafting—the technique for making more precise architectural and mechanical drawings, better blueprints, and easily modified revisions—all done by computer.

Dr. Don Bipse, assistant department chairman for drafting, is in charge of about 25 amazing machines that he says use "ultra-sophisticated software which does wild and wonderful things."

In mid-July the CAD lab joined the world of mass computers when it moved into the High Tech Center on the north side of campus.

The room on the concourse of the northeast corner of HTC will house the 20 IBM Rensle clones that are used to teach AutoCAD, a software that Bipse says is popular in small manufacturing businesses.

In addition, six larger, two-tiered work stations were installed to teach ComputerVision, the software used in the multi-million dollar companies like Honeywell, Motorola, Intel and Goodyear.

The ComputerVision set-up, with its two screens (a 12-inch monitor for text and a 19-inch for graphic display), the keyboard, a Kurta drawing board and stylus, occupies a 4- by 5-foot area. It also works off IBM clones.

Bipse says one reason GCC's program has been so successful is because it uses the software that is the standard in the business community.

The drafting professor said, "There's not another community college in the state that rivals the offering GCC will have this fall."

Because GCC has one of the largest CAD training facilities in Arizona, the college has become a training center statewide. Short-term seminars are of-

fered through the college's Institute for Business, Industry and Technology for people who don't want to extend classes over a whole semester.

This option is popular with businesses that have just purchased equipment and need to learn quickly.

In conjunction with the State Vocational Education Training Department, a special program has also been designed to train teachers who are not using computers in their drafting programs.

Computer Aided Drafting is part of a two-year occupational curriculum that leads to an associate of applied science degree in either construction drafting or industrial drafting.

Although CAD used to be an elective, two semesters are now required.

Besides Bipse there are two other full-time drafting instructors and 15 to 20 part-time faculty who augment the day, evening and Saturday programs.

Paul DePippo heads Faculty Senate, social studies

By Tim Ahl and Laura Tatroau

Faculty governance is an essential function at any college," said Paul DePippo. "I would like to see a greater degree of faculty participation."

DePippo, elected in spring 1986 to a two-year term as President of the Faculty Senate, spoke about his responsibilities as president.

He appoints members to various faculty committees, such as Meet and Confer, College Staffing Advisory, Budget, Retirement, and Educational Issues.

DePippo is also one of 10 members of the executive committee of the districtwide faculty executive council.

He is on the district executive council made up of all college faculty presidents, plus senate members from



"I feel this position is exciting and challenging, and my goal is to generate more participation and interest."

—Dr. Paul DePippo

each college.

"I feel this position is exciting and challenging, and my goal is to generate more participation and interest," De Pippo said.

As president, he plans to publish more information to inform faculty about the Senate and its proceedings. Along with his duties as faculty

president, DePippo is also chairman of the social science department.

"My goal is to expand the course offerings in political science, anthropology and geography," DePippo said.

Social science classes give students a chance to widen the scope of their educational spectrum while also filling

general studies requirements.

Social studies courses such as anthropology, economics, geography, history, humanities, political science and sociology give students a chance to enhance their education and gain knowledge about a person's place in society, according to DePippo.

Many of the courses offered under the social science curriculum can also be used as transfer credits to four-year universities.

Also offered under the department's curriculum is a two-year human services program under the direction of Karen Williams.

The program, which offers an associate in applied science degree, can be used to help people gain jobs in fields such as social work and youth supervision.

Language courses: It's not all Greek

By Christina Cooper and Jennifer Jones

Picture yourself strolling down a Paris street.

While you are innocently studying a remnant from the past, an attractive native-born French citizen approaches you and, smiling, says, "Bonjour. Comment allez-vous?"

You stammer, blush and answer with a sloppy, "Tres bien, merci et vous?" But that is as far as your knowledge of this foreign language extends.

You are lost to the rest of the conversation and thus you regretably lose the attention of that stunning Parisian specimen. With all your heart you wish you had taken that time-consuming, but profitable French class.

Gene Eastin, foreign language department chairman, discussed the benefits of taking a foreign language.

"It doesn't take brains, but it does take time," he said. "Developing the desire to learn is the most difficult part."

Eastin emphasized that beginning with the '87 fall semester the state universities will require two years (16 credits) of a single foreign language in the college of liberal arts for graduation.

Eastin further explained that while this new requirement applies to students beginning this fall, it does not apply to students who have already entered a community college program prior to the fall '87 unless they have had a break in attendance.

For the first time in several years Russian will be offered in the early afternoon and there are currently 14 students enrolled, according to Eastin.

The foreign language department at Glendale Community College continues

to offer a computerized program in French and Spanish.

Students learning on the computers will be instructed on how to use the different programs and then allowed to work at their own pace.

Eastin and Dr. John Griggs, Spanish professor, will be using the computer this fall to test students in French and Spanish rather than having written tests.

Eastin said teachers try to work with students on a one-to-one basis, encouraging them to take home cassettes to study the language.

More advanced foreign language classes involve the history and culture of the country.

Il n'est jamais trop tard d'apprendre une langue étrangère (It is never too late to learn a foreign language.)



Mark Flechter/Vezce

Dr. John Griggs and Gene Eastin, examine teaching software that is programmed for foreign accents.

See the world vicariously

By Mary Mickle

It doesn't take a \$5,000 vacation to discover Europe—just a trip to Glendale Community College's International Studies Institute.

The five-year-old program offers an associate of arts degree in international studies.

"International education is important because there's a cultural, social and economic value in knowing about the rest of the world," said Alberto Sanchez, director of the International Studies Institute. "It allows people to deal with the world in a more informed way."

The International Studies Institute activities include monthly luncheon seminars on international business, and the hosting of international visitors sent by the World Affairs Council in Phoenix.

"We want students to be prepared as responsible citizens in a rapidly shrinking world by providing them with an understanding of other nations and of pressing international problems, as famine and the threat of nuclear war," Sanchez said.

Besides promoting international education to students, Sanchez is a liaison for out-of-country students at GCC. He has developed a GCC foreign student handbook that is available in his office.

Last year the International

Studies Institute received district grants of \$42,000 for the internationalization of the curriculum.

Sanchez has written a joint three-year proposal, Title VI, with Arizona State University to improve foreign language assessment and develop internationalized courses.

Sanchez said that last spring more than 10 faculty incorporated curriculum changes that "internationalized" their classes.

For example, a reading class that usually focused only on American literature will now include works of other countries such as Africa or Europe, he said.

The International Studies Institute is oriented toward foreign languages, study abroad, general education courses, community outreach, and business courses with an international approach.

"The Institute is a staff-level organization that works for the college's community, students, staff and faculty," Sanchez said.

Sanchez plans for the institute to "become a more important aspect of campus life that deals with international affairs that affect everyone."

Sanchez said any student interested in signing up for the international studies program is welcome to visit his office and discuss the decision.

Music dept. keys up

By Chris Ort

Music courses dealing with both performance and theory as well as private instruction are offered at Glendale Community College.

Performance classes are offered in voice, piano, woodwinds, and brass. Community band, symphonic and marching bands are also available, as well as jazz and choir.

Appreciation and Literature of Music, Music History and Aural Perception are the music theory courses.

Private instruction is offered on guitar and voice, and on orchestra and band instruments.

Theory and Composition

"A thorough understanding of music is an integral part of any successful music career," said Mark Ramsey, instructor of music theory and composition.

The four-semester music theory program at GCC offers an understanding of melodic, harmonic, and rhythmic materials through periods ranging from contemporary classical to jazz.

Opera Workshop

A workshop in the study and performance of operatic literature is open to all students on the basis of auditions.

The class studies musical staging techniques as a basis for performance. The singers present two or more programs during the school year.

Past productions include: "Guys and Dolls," "The Music Man," "Amahl and

the Night Visitors," and "Oklahoma."

Concert Choir

The Concert Choir, directed by choral instructor Peggy Licon, presents the community with a variety of performances throughout the school year.

The choir is open to all GCC students who have had high school vocal experience.

Los Cantores

Auditioned members from the concert choir make up the Los Cantores vocal ensemble.

The group performs at educational functions, as well as civic, church and school events.

The group performs mainly Pop and Show Choir, most of which are choreographed.

Community Band

The College Community Band, led by music professor John Thrasher, is a group made up of adult non-GCC students.

The band, which has been together for 13 years, includes some members from the original ensemble. Seventeen of the members in the current band have degrees in music, and some are music teachers and former GCC students.

Fundamentals of Music

Fundamentals of Music is a course designed to give the student a basic understanding in theory and music notation. The class is designed for non-majors but is recommended for students majoring in music.

Honors Program rewards excellence

By Shari Singer

Students with an outstanding academic record, special talents or experience, and high motivation are likely candidates for the Honors Program at Glendale Community College.

"The Honors Program gives students an opportunity to prove themselves," said Jean Hogg, department secretary for the Honors Program. "It encourages students to work to their fullest potential."

The program is divided into two sections: The Presidential Scholarship Program (PSP) and the Honors Fee Waiver Program (HFWP).

Presidential Scholarship program

The PSP is for incoming freshmen who graduated in the top 15 percent of their classes. Only students coming directly from high school can apply.

These scholarships pay full tuition plus a stipend of \$150 per semester for books and supplies.

To remain involved in the PSP, participants must take one honors class and complete a minimum of 12 credit hours each semester, with at least a 3.25 grade point average.

Honors fee waiver program

The HFWP is for continuing or transfer students who have earned a minimum of 12 credits at GCC and maintained a minimum grade point average of 3.25. They also must obtain two letters of recommendation from GCC faculty.

The fee waivers are based on the number of credit hours taken by the student. Twelve or more hours earns the maximum waiver of \$100; nine to 11 hours, \$75; six to eight hours, \$50; and three to five hours, \$25.

The same requirements for the PSP pertain to the HFWP, except fee waiver students may take fewer credit hours per semester.

To be designated an Honors Program Graduate when the degree is conferred, the requirements are slightly steeper. Students must have accumulated 15 credits of honors courses distributed among four different disciplines, and must have maintained a 3.5 grade point average.

Honors sections include traditional classes, inter-disciplinary courses, and team-taught classes.

The classes are designed to be especially stimulating, challenging and self-motivating in order to increase the student's knowledge and awareness.

"The Honors Program gives students an opportunity to prove themselves."

—Jean Hogg

Distinguished speakers

At least three speakers have been scheduled for the Honors Forum Series: Scott Momaday, a Native American writer; Tony Hillerman, an Indian religion and mystery writer; and Rita Moreno, the only performer in show business history ever to win an Oscar, Emmy, Tony, and Grammy.

In addition to appearing at the public forums at Tempe Mission Palms Hotel, each speaker will also visit at least two of the Maricopa College campuses.

Honor students receive special recognition at graduation and their transcripts indicate Honors Program status.

Students who aspire to be part of the Honors Program should contact Harry Matz, coordinator, in the Liberal Arts Building, Room 39.

Center to combat adult illiteracy

By Shari Singer

"Let us dare to read, to write, to speak, to think..." John Adams said nearly 190 years ago.

Illiteracy, or the inability to read, write, or comprehend subjects, increases yearly by 2.5 million people.

To combat the problem of adult illiteracy in Maricopa County, a Literacy Center will open this fall on the Glendale Community College campus.

The Center will be located in the Liberal Arts Building, Room 46. Access to the Center will be through the Learning Assistance Center.

Three service providers will make up the Center: Basic Skills Program, Adult Basic Education (ABE), and Literacy Volunteers.

"The issue is not one that can be handled by one party," said Dr. Homero Lopez, dean of arts and sciences. "The answer lies in putting together resources."

The goal of the Literacy Center is to coordinate the services directed at the problem of illiteracy.

Basic Skills Program

The Basic Skills Program will be offered as credit courses. A general college tuition fee will be applicable.

This branch of the partnership will teach reading, English (reading, writing, and speaking), and mathematics.

Although these credit courses cannot be counted toward graduation, "...they are designed to eventually get people to the college level," Lopez said.

Twenty-seven million adults in the United States lack these basic skills and are labeled functionally illiterate, according to the Arizona Joint Task Force report.

Adult illiteracy costs the nation more than \$120 billion annually, including welfare, lost work productivity, industrial accidents, and prison costs, according to the Task Force report.

"Adult learners are imprisoned and impoverished by their illiteracy."

—Marti Combel

Literacy Volunteers

The Literacy Volunteers program will be offered at no charge and for no credit. However, the volunteers will tutor students in reading only.

The program will give people an opportunity to serve the community by tutoring, said Gaye Tolman, executive director for the Literacy Volunteers of Maricopa County, Inc.

"It will also give them access to one-on-one tutoring to improve their own (tutors') reading skills."

"Adult learners are imprisoned and impoverished by their illiteracy," said Marti Combel, coordinator for the developmental education programs at GCC. "We as a community college can no longer afford to ignore these human beings who cannot read or write."

Prior to starting class, students will be counseled, tested and then placed in one of the programs.

To enroll in the Basic Skills Program, students must qualify (via testing), and register at posted registration times.



Mark Flechter/Vezce

Dean Terasaki, photography instructor, works on one of the 21 enlargers in the newly remodeled darkroom in the Fine Arts Building

When lights go out, darkroom shines

By Mary Mickle

Photography instructor Dean Terasaki shed some light on the best teaching darkroom in the Valley. It is located in the northeast corner of the Glendale campus, off the patio of the Fine Arts Building.

The large communal facility contains 21 black and white enlargers, three centrally located sinks for print development, two color darkrooms, and three film developing darkrooms.

The outer room features a gallery for photo exhibits and a space for print finishing. There is also a small studio for portraits and advertising photography.

The photography department will have beginning, intermediate, and advanced photography classes available for the fall semester.

Color photography and photojournalism courses are planned for the spring semester, according to Terasaki.

In the beginning courses camera operation, darkroom skills, film development, and printing black and white photographs will be taught, Terasaki said.

"The course is very thorough," Terasaki said. "It covers everything from how to put the film in the camera to the relationship between photography and time."

Through two projects, the latter concept will be studied:

The "Motion Project" will use the camera controls to either freeze a subject or show motion.

Terasaki said students must decide whether "to freeze an instant of time or opt to show passage of time from one-fifteenth of a second to an hour."

The "Time Capsule" idea introduces beginners to a personal photographic document that becomes the focus of the

second, third and fourth semester courses.

Two new part-time staffers, Robert MacKammie and Michelle Mellot, will teach the beginning classes.

The intermediate and advanced courses, taught by Terasaki, will develop the students' personal vision, Terasaki said.

"It is designed to help students understand their own relationship to photography as a medium," he said, "and a way of communicating or expressing their personal viewpoints."

The advanced classes will learn more about sophisticated techniques and larger cameras.

The principle of the Zone System, a technique developed by Ansel Adams to previsualize photographs by evaluating tones of gray in a scene, will be studied.

Students must supply their own camera, film, photographic paper and developing chemicals.

The college will provide darkroom facilities and the chemicals for printing pictures.

"We have one of the best darkroom facilities in the Valley," Terasaki said. "I've often thought a short field trip to some of the other area college darkrooms would help students appreciate the wonderful facility here."

This is Terasaki's second year at GCC. He taught at Mesa Community College for two years, and was a teaching assistant at ASU before coming to GCC.

As an artist, Terasaki displays his work periodically in group exhibits.

"They are collages of images that I appropriate (photograph) from the mass media," he said. "I use commonplace, emotionally charged imagery from newspapers and television."

In 1985, Terasaki was recognized for his "imagery" in *ArtSpace Magazine*.



"Cue Balls," by Chris DiDomizio (36-inch by 48-inch, oil) won first place in the 1987 student art show. The painting also is currently representing the Maricopa Colleges in a national competition. DiDomizio graduated from GCC in June.

Art draws creativity

By Camille Beatty

According to Frank Fitzgerald, chairman of the art department, the qualifications for entering an art program are willingness and a capacity to work hard.

He also said students must realize art classes take twice as much time as regular academic courses.

The department chairman says the Glendale Community College art department has outstanding equipment and facilities. There are nine studios, several smaller art rooms, and lecture rooms.

In the graphics design studio, another equipment specialty is the Vectrix computer system.

Students working with this computer will be exposed to advanced color computers capable of designing full-page ads, according to Mirra Hamilton, graphics professor.

ASU West is working with GCC on a direct transfer program that will allow students to continue the graphics program at ASU without any problems.

Fitzgerald recommends that students interested in an art major should be advised by an art professor so they don't take unnecessary classes, and they do take the essentials.

Fitzgerald believes the art department at GCC, in contrast to an all-art institute, gives students a broad basic experience.

The professors help students communicate in today's world and expose them to a variety of situations.

The job opportunities are many for those who really apply their art training, according to Fitzgerald.

Those in graphic design, photography, sculpture and painting can have their own studios. Free-lancing, advertising, teaching, or producing art projects are

other possibilities.

Ever-changing exhibitions of students' works are displayed in the lobby of the John F. Prince Library on campus.

A large portion of the permanent art exhibits throughout the library—paintings, photography, and sculptures inside and outside the library buildings—are done by students.

Annually there is a spring student art and photo show in the Student Union Lounge.

Some of the displays are for sale. Students set the sale price and GCC does not take any commission for the student works that sell.

Prize money is awarded to the first, second, and third place winners.

"The show is the high point of the year, and the students work hard toward it," Fitzgerald said.

Besides student and faculty art shows, changing professional exhibits are also on display in the Student Union Lounge throughout the year.

The art, photo, and English departments put together a creative arts magazine called *The Traveler*. It includes prose, poetry, graphic designs and photography.

Fitzgerald says GCC has the best community college art program in all media in Arizona.

Besides the department chairman, there are six other full-time instructors and 16 part-time instructors.

Fitzgerald, originally from Ohio, graduated with a master's degree from Cleveland Institute of Art and Case Western Reserve University.

He taught art at Maryvale High School for three years. He has been teaching at GCC since 1966.

'Write' on: writers keep pace

By Randy Cordova

Closer ties with ASU and ASU West have helped improve the quality of transfer classes in English, particularly freshman courses ENG 101 and ENG 102, according to English department chairman Conrad Bayley.

Many changes are being made in the English department to help students become more involved in their writing.

Greater emphasis on writing proficiency at the university level "has been a key factor in bringing together university and community college faculty to work on mutual concerns."

Working with the state universities, GCC English faculty has prepared competency-based objectives for freshman transfer courses, according to Bayley.

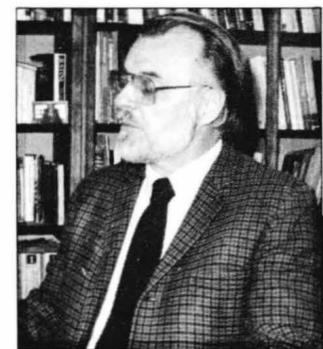
"I think that we will be working even more closely with ASU, particularly on the related matters of assessment, computer-aided instruction, and teaching remedial skills.

"What we want," Bayley said, "is for our students to have the best possible preparation for the demand which upper division composition assignments will make of them."

Computerization in Writing
The English department has a campus lab which houses 30 terminals and two laser printers.

Students will be able to use the computers for writing any paper that is assigned in an English class.

"Research shows that students write more and are more willing to revise with computers," said Bayley.



Conrad Bayley: English chairman

Library enters age of '2001'

By Drew Carroll and Randy Cordova

The John F. Prince library, also known as the Instructional Materials Center (IMC), at Glendale Community College, has entered the computer age.

Instead of the traditional, brown-boxed rows of the card catalog that stood in the middle of the library are 14 computer terminals.

The new technology provides all the services of the traditional catalog and more, according to Holly McKinzie Beene, public service librarian.

The On-Line Public Access Catalog (OPAC) is a computer system that links GCC with Phoenix, Chandler-Gilbert, Gateway (formerly Maricopa Tech), Mesa, Paradise Valley, Rio Salado, Scottsdale and South Mountain community colleges.

The terminals display whether the library has a certain book, if a book is checked out, and when it is due back—not just for GCC, but for all nine schools on the OPAC system.

If a book is available at one of the other schools on the system, it can be transferred to GCC for check-out.

Even for people who don't consider themselves "computer literate," the OPAC system is easy to use, according to Beene.

"You see people come in and they're more willing to use it (the terminals) because it's so convenient and easy," she said.

The Computer Output Microfiche Catalog (COMcat), which served as the card catalog in past years, is still available, but used "mainly as a back-

up system," according to Beene.

Newcomers to GCC will find that the IMC uses the Library of Congress Classification System (LC), instead of the Dewey Decimal System found in most high schools and public libraries.

Future plans for the library include the addition of more OPAC terminals, as well as the West Valley Library System, which will allow GCC students to obtain books from ASU West, American Graduate School of International Management, and the Glendale Public Library as well.

The IMC is open Mondays through Thursdays from 7 a.m. to 9:50 p.m. and Fridays from 7 a.m. to 4:20 p.m. Until December, the IMC will be open on Saturdays from 9:30 a.m. to 3:30 p.m.

Speech ends sounds of silence

By Michelle Cleland

Speech classes provide pathways for better communication.

Students entering the job market often find themselves faced with some form of oral communication and a speech class can help better prepare them.

According to Marilyn Hoffs, department chairwoman of music, speech and theater, the importance of oral communication has caused speech classes to be added to the core requirement.

Speech not only meets degree requirements, but it also helps ease people into communicating with others, develops a sense of idea organization and there is an element of personal fulfillment.

The number one fear among students tends to be speaking in front of large audiences.

"Our emphasis is primarily on public speaking, but also includes aspects of interview, interpersonal, and group discussion techniques," Hoffs said.

Hoffs feels there is a practical edge to speech classes that appeals to everyone.

"I think it is a very practical class," said Hoffs.

"We try to make it so that students can apply what they've learned to their work, home and school."

Voice produces winning paper Non-credit, Non-stress

By Randy Cordova and Kim Sertich

Since she's been at Glendale Community College, the school's newspaper adviser, Gerri Fiedler, said it's been all uphill.

Five years hard work culminated in a coveted award this spring: first place in General Excellence for Large College Tabloids from the Journalism Association of Community Colleges for California/Arizona.

The paper also received first place awards for feature writing and humor writing, and second place for line art.

Fiedler credits the success of the newspaper to the support of GCC's administration.

"I feel they have a strong commitment to the program," she said. "It was their belief in the program that made it possible for us to get the Compugraphic typesetting computers."

Entering the electronic age
"The lure of the computers has spurred interest in the program," Fiedler said. "There is a certain mystique in the computers that drives students."

Fiedler, who taught journalism at Coronado High School in Scottsdale for seven years before coming to the college, said the computers allow students' ideas to flow more freely and enable them to edit more easily.

"Since we have the computers there is the advantage of seeing it from start to finish," she said. "Moments after (a story) is set on the computer, they can see it typeset."

The students now do all phases of the bi-weekly publication except the printing.

Award-winning publication
Fiedler said now that the paper is winning awards, each staff wants to do better than the last.

"It is a personal challenge. There's a momentum passed on from staff to staff that keeps it rolling," the adviser said. "Every year we seem to learn and do more things."

Although the staff changes each semester, Fiedler said there always is a team commitment to excellence.

"If there is any recipe for the success we've had, it is that the students have a mission," she said.

New editors

Randy Cordova will serve as editor this fall, while Jennifer Jones will make her debut as managing editor. It is her second semester on the paper. "Everybody works together toward the completion of the paper. We all depend on each other to get the paper out on time," Jones said.

Fiedler said she has high standards for



Journalism adviser Gerri Fiedler shows Mary Mickle how to boot up the Compugraphic computers to produce this preview issue of *The Voice*.

the paper and holds a tight rein on its content.

"As the quality increases, you have more credibility with the school's staff and there is more trust in the paper, which brings more cooperation," Fiedler commented.

Jones said it's interesting working with Fiedler. "Although Ms. Fiedler looks our stories over and makes suggestions, it is still our work you see as the finished product."

"She teaches us, but what we learn here is basically hands-on experience," Jones added.

Fiedler said the three state universities have recognized *The Voice* as a quality paper, with counselors sometimes advising journalism students to attend GCC before going to a university.

Fiedler said it's possible for a student to get a 4-year journalism degree at a

university without ever gaining the practical experience that *Voice* staffers receive.

The journalism instructor said she likes to build the staff up, so she recruits students from area high schools and her other classes.

The newest journalism course, JRN 130, Computerized Typesetting, is offered for three credit hours on Saturday mornings using the Compugraphic Modular Composition System.

Saturday and evening journalism courses are now being scheduled alternating semesters, making it possible for night students to participate in the journalism program and to contribute to the student newspaper, *The Voice*.

"I've always had students with good judgement and a sense of good taste," Fiedler said. "I may have advised strongly in certain situations, but I never had to censor."

Philosophy teaches clear thinking

By Gerri Fiedler

"Anybody who wants to think rigorously and write well should take philosophy," said Robert T. Hubbard, philosophy department chairman.

To think clearly and critically, and to apply those skills in all kinds of situations in today's society—that is what Hubbard hopes students learn from philosophy classes at Glendale Community College.

"We try to get people to think reasonably rather than emotionally," states philosophy professor Philip S. Smelser. He sees this process of logical thinking essentially the same as math.

Philosophy is commonly taken by students in all disciplines to satisfy a humanities requirement. The classes fit into programs such as law, economics, psychology, sociology, anthropology and history.

Hubbard said most employers believe the skills taught in a philosophy class help to create a well-rounded person.

Introduction to Philosophy deals with

“We try to get people to think reasonably rather than emotionally”

—Philip S. Smelser

the nature of reality and the nature of truth. The course presents students with alternatives on issues such as philosophy of religion, free will and responsibility, or the nature of knowledge.

They are encouraged to critically evaluate their own decisions on these subjects, Hubbard said.

Introduction to Ethics and Introduction of Logic also satisfy humanities requirements and transfer to all universities.

Two other philosophy courses that have been developed are Business Ethics, which caters to business students; and

Medical and Bio-Ethics, which deals with questions like the morality of abortion, genetic engineering, mercy killing, and whether the human embryo is a person.

Hubbard believes philosophy courses are important in modern society because the ethical system has not kept up with technology; therefore, people must have the ability to contemplate the dangers inherent in a technological world.

Smelser represents the philosophy faculty in a team-taught humanities class that stresses the link between philosophy, religion, history, literature, art, music, economics and politics.

Hubbard believes GCC has a strong philosophy department. "All the instructors are well-prepared to teach the subjects and are popular with the students," the department chairman said.

Bonnie Nelson, Lyle Walcott and Hubbard have master's degrees in philosophy, while Smelser's is in history. All have extensive course work beyond the master's level in philosophy.

Non-credit, Non-stress

By Jennifer Jones

Have any future paparazzi suddenly jumped out from behind a tree to snap your picture?

Has anyone on campus tried speaking German to you?

Or have you been ju-jitsu-ed by a 12-year-old?

If you answered yes to any of these questions, you have probably met a student enrolled in Shutterbugs! Photography for Children, German for Tourists, or Ju Jitsu—three of the summer non-credit Special Interest Classes offered at Glendale Community College.

Each semester over 100 classes aimed at various age groups are offered by the Center for Community Education scheduled on a non-credit basis. Monica Zontanos coordinates the offerings.

"We have courses that appeal to everybody because there is such a variety," Zontanos said.

Students, faculty, children of faculty, and members of the community have attended in the past.

Summer 1987

Classes for adults during the past summer included Transforming Your Body Image, How to Sell Your Home, Overcoming Computer Phobia, and Floral Design.

Children participated in acting and drama courses, including Center Stage where the students had a chance to create a production and perform it on a cable television show.

MASTERMINDS! a program of enrichment classes for gifted and talented children, was offered for the second summer. It allows exceptional students to expand their talents and abilities.

Specific classes offered in **MASTERMINDS!** were Discovering Dinosaurs, Time Travelers, Oceanography, and Creative Writers.

The gifted children were also offered Operation: Dissection. They studied graphic dissections on the Apple computers in the GCC High Tech Center, and then went to the lab for hands-on experience with earthworms, crayfish, frogs, and sharks.

There were approximately 1,000 children and 1,000 adults enrolled in the summer classes, according to Zontanos.

Regular Offerings

Aside from the summer courses, non-credit classes are offered year-round.

The usual categories for adult students are Arts and Crafts, Business Related Courses, the Home Inside and Out, Productive Pastimes, Personal Development, Recreation, Fitness and Health, and Discover Your World.

Classes range from home video production to bass fishing to dog obedience. School drop-outs sign up for GED classes, or a medical doctor may register for stained glass art.

Zontanos and her assistant, Suzanne Higgins, line up 100 to 120 instructors each semester to meet the special interest needs of Glendale's community.

Most teachers are from the community, but a few are GCC faculty who choose to present courses on a non-credit basis.

The program served close to 6,000 students during the past year, according to Zontanos. She believes its success is simply a matter of meeting a need. The community expects its local college to offer such opportunities, she says.

Zontanos thinks added leisure time plays a part in the enthusiasm toward the offerings.

Minority Services provide incentives

By Randy Cordova and Chris Orf

Minority Services is a campus department with a mission—getting minorities to take advantage of the higher education system.

According to Jose Mendoza, program coordinator, the services are aimed at two groups: minority students (both elementary and high school) and minority adults who are possible re-entry students.

Targeting students in the elementary grades is the unique aspect of GCC's Minority Services Program.

Efforts aimed at pre-college students involve working with public schools to help make minority students more aware of college.

According to Mendoza, many minorities come from a background where college is not emphasized.

"With the minority community, there has been some difficulty getting them to utilize the college education," said Mendoza.

Adults are reached with parental programs that involve both the minority student and parent.

In addition, bilingual centers and adult employment programs are often involved with getting minority adults back into the educational system.

There are two basic programs in Minority Services that make efforts to keep minorities in school.

Faculty-based mentoring program

Faculty mentors are members of the faculty who become personal counselors and supporting individuals for three to five minority students during the year.

Psychology professor Dr. Carl Samuels has been released from some of his

teaching duties to implement the program. Other faculty members work on a volunteer basis with the students.

According to Mendoza, the mentoring program helps "sustain students and keep them on their educational goals."

The program's 1986-87 year-end report showed that of 200 minority students with faculty mentors, 189 students were still in school.

By comparison, two groups of 200 students without faculty mentors finished the year with 140 and 145 students still in school, respectively.

Math, English, Science Achievement
The Math, English, Science Achievement (MESA) program operates in the Peoria, Glendale, Dysart and Tolleson school districts.

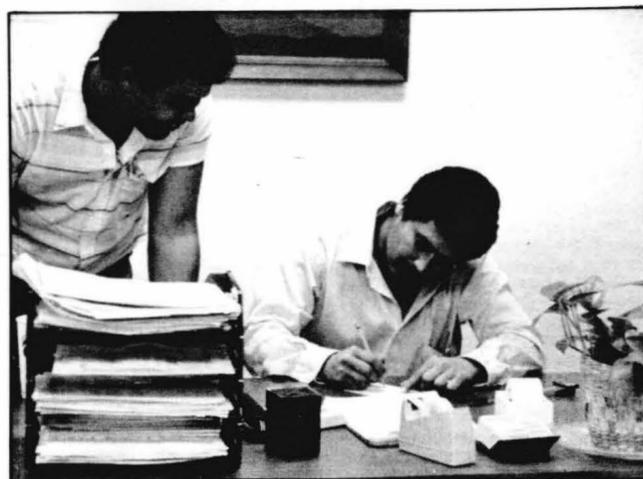
It identifies minorities in junior high, and encourages them to become members of MESA as freshmen and sophomores.

Members take English, math and science every semester all four years of high school.

"The goal for the program is to develop young minority students to come out of high school with a strong foundation in all academic areas," said Mendoza, "and then they will be able to enter any college and study whatever program they want."

The following incentives encourage students to get involved in MESA:

- Payment for each "A."
- Gifts (such as calculators and awards).
- Field trips.
- Tutoring.
- Scholarships for high school seniors to GCC, and the three state universities.
- Scholarships at the high school level in courses in which students excel.



Manuel Villa and Ringo Acosta are in the Minority Services Office, where they can receive help filling out their financial aid forms.

Recognition at banquets.

The main objective of MESA is to "give minorities directions way down in the elementary level so they will be more successful in college," said Mendoza.

Minority Services helps all minorities—blacks, hispanics, Asians, Pacific Islanders, women—"all groups that are underpopulated in higher education," said Mendoza.

Although the efforts of the programs have increased enrollment of minorities to 15 percent at GCC, 26 percent of the

population in the area are minorities.

"So we have something that we still need to work on," said Mendoza.

However, he still sees a level of success in the program. He attended GCC in 1969-70, "and you didn't see the cultural diversity (on campus) that you see today."

"If more minorities do go through college, it will generally benefit everyone," he added.

The Minority Services office is located in the Student Personnel Building.

Computers plan careers

By Randy Cordova and Gerri Fledler

Career and life planning services are offered continuously to students and former students by the Career Planning and Placement Center.

"We don't stop serving students when they graduate," said Dr. Renee Rodgers-Barstack, director of career and educational planning.

"We're here to assist people in making career changes, as well as in finding that first job," she added.

Free information on careers is available to members of the community, even if they do not attend GCC. Anyone can tap into a computerized information system for updated job facts on available jobs, required job skills, statistics on businesses, job descriptions, and even facts on colleges and universities.

A computerized placement job system is linked to other community college district campuses, as well as to local high schools.

With this system, it is possible to find out what jobs are available through GCC, in addition to seeing what jobs have been posted at other campuses.

"It (the computerized placement system) greatly increases the number of opportunities you have available," said Rodgers-Barstack.

The Career Planning and Placement Center also sponsors on-campus classes. CPD 102, Career Exploration, involves self-directed activities that aid in making career decisions; and off-campus lab classes, CPD 198, Career Exploration Laboratory, expose students to job situations in the business world.

Two other classes, Cooperative Education (296) and Volunteer Job Experience (VSE 198) give students college credit while they are either working for pay or volunteering their services in the job market.

However, Cooperative Education will be replaced with other options during the



Dr. Renee Rodgers-Barstack: Director, Career Services

spring 1988 semester.

Employment Talks: Strategy for Success Workshops, are offered free to the public at 1 p.m. on Mondays in the Student Union Lounge. The series will bring notable personalities to the campus to tell about their careers.

One credit hour is granted for attending the seminars if a student enrolls for CPD 100, Orientation for Student Development.

A Department of Economic Security representative, Don Robinson, is assigned full time to the GCC Career Center. This direct link makes GCC the only community college with access to the job files at other DES locations.

The Fifth Annual Career Expo will be held on March 2. This year's theme will be "Here Today, Career Tomorrow."

Over 100 employers are expected to be present on campus, with demonstrations and exhibits aimed at both the students and the community.

The Expo will be held from 10 a.m. to 1 p.m., and will resume at 5 p.m. to 7 p.m.

Seminar will assist Re-entry students

By Ann Chatfield

For those men and women considering a return to education, Glendale Community College is offering a seminar titled "The Time of Your Life."

Each semester, Ellie Marek, coordinator of re-entry services, teaches a seminar on the basic how-to's of registration, planning a class schedule, and making use of the resources available on campus.

The next session, to be held August 17 at 10 a.m. and 6 p.m., will include "50 Ideas in 60 Minutes—Strategies for Success," which will feature a panel of students, faculty and alumni.

Although women are traditionally thought of as re-entry students, men have now started to return to college in large numbers.

Marek says men are looking for "recareering" after a job change, a transfer, or reduction in force in their business or industry.

Women are looking for self-sufficiency, a new career, self-esteem or new directions after a transition in their lives.

Marek is known throughout the Valley for her work as a counselor, trainer, and speaker. She encourages students to attend one of the seminars offered for re-entry students.

A booklet listing all seminars offered this fall and recommending credit classes for re-entry students, is available in the Re-Entry Center, located at the east end of the Student Union building.

The Center functions as an adjunct of the counseling department. Marek advises students herself or refers them to other services on campus.

Marek has guided people ranging in age from the mid-20s to a woman of 72.

Marek recommends that students call ahead and make an appointment for counseling in the Re-Entry Center because of the increased demand from people looking to the college for new directions.



Students Vance Johnson, Tina Feger and Patty Zint dine in the atrium located in the center of the Glendale Community College's Student Union.

Speed of sound Telephone, computers speed registration

By Jennifer Jones

More than 16,000 students are expected to enroll at Glendale Community College for the 1987 fall semester.

Mary Lou Vesely, director of admissions and records, talked about the registration process during the summer enrollment period.

The actual process of registration is now a better experience for those students who choose to use the modern time-saving conveniences that are made available to them, Vesely said.

Telephone for convenience

For those who use telephone registration, registering can be as easy as picking up the phone and dialing 934-8539.

Telephone registration as well as advisement is available for students registering for fewer than six credit hours.

Telephone advisement is available for any student who has a question about course selection, Vesely said.

Advisement is available by dialing 937-7529.

For the many part-time students this is a convenient way to register, according to

Vesely.

"Since students do not have to physically come to campus, the phone registration program has reduced the registration lines," said Vesely.

Payment made easy

Visa or MasterCard can be used to pay tuition and fees. A check or money order can also be sent through the mail as long as it is received within five days after the telephone enrollment.

One of the advantages of the on-line system is that it gives enrollment information to students immediately and they are able to enroll in the classes of their choice.

Registration information and class schedules are also available at 10 local Valley National Bank branches.

Spring registration for continuing students will begin in November. Class schedules will be available in mid-October.

New students will begin registering for spring courses in early December.

The final date to register for the spring semester is Jan. 15, 1988.

Information contributed by Beth Ewing.

Handicapped students get aid from service office

By Jennifer Jones

Help for handicapped students is offered at the Special Services Office at Glendale Community College.

Students with either a permanent or temporary handicap are assisted, according to Mark Ferris, special services counselor.

"The object is to assure that they (handicapped students) are going to have access to the same information that the other students have so that they can compete for grades on an equal basis," said Ferris.

Academic advisement, personal and vocational counseling, registration assistance, mobility assistance and tutorial referral can be arranged through Ferris' office.

Notetaking assistance for hearing, visually, and mobility impaired students is also offered.

Sign language interpreters, disabled parking permits, classroom accommodation such as portable table tops, vocational testing, library aids, test readers, and scribes are available.

Handicapped students also have access to special equipment: Computer Viewing System (CVS), Visualtek-print enlargement—both available for the visually impaired students—the Perkins Braille, tape recorders, and recordings for the blind are offered.

Wheelchairs, wheelchair desks, a swimming pool lift, wireless FM amplification devices, a talking book machine, talking books, and the teletypewriter telephone (TTY), a device for hearing impaired students, are also available.

Dial-a-Ride provides transportation for handicapped students to and from GCC. When people need rides, they can just call, and the bus will pick them up at their home.

Wheel chair lifts are available on most of the buses and handicapped people can ride the bus for half fare, 70 cents.

For more information, contact the Special Services Office in the Student Personnel Building or call 934-2211, ext. 328.

\$School aid Scholarships, loans, work study

By Lynn Liljegren

Student Financial Assistance is available for almost anyone who can't afford all the costs of a college education.

The dollar amount awarded is the difference between the cost of the individual student's education and the amount of money a student and the student's family can provide for the education.

Most financial aid is awarded on the basis of need; scholarships are the exception.

Dr. Merle Lange, GCC director of SFA, suggests that students apply as soon as possible because the process takes six to eight weeks to complete.

By completing only one form, the ACT Family Financial Statement, a student will be considered for all financial programs.

The financial need demonstrated by the student is met by using a formula to indicate the level of assistance the student will receive from each program.

All records and data submitted with an application for financial aid are treated as confidential information.

There are two general types of scholarships—general academic scholarships and activity awards.

Scholarships are based on excellence and they do not require repayment. The

funds are provided by private donors and the college.

Activity awards of \$100.00 per semester are given by departments in the form of activity awards, and in some cases, book loans. They are not repaid.

Grant programs do not require repayment unless a student withdraws before the end of the session.

The four grant programs available are Bureau of Indian Affairs, Pell Grant, State Student Incentive Grant, and Supplemental Educational Grant.

Loans can either be long-term or short-term. The loan must be repaid at some future time, either in terms of dollars or service.

One type of long-term loan is the Perkins Loan, which accrues interest at the rate of five percent per year beginning six months after the student ceases to be enrolled at least half time.

The minimum payment at that time is \$30 per month, paid quarterly.

With the Guaranteed Student Loan, eight percent interest accrues from the date of the loan; however, the interest is paid by the federal government until six months after the student ceases to be enrolled at least half-time.

At that point the student assumes responsibility for the loan and the interest. GSL loans are through a lending institution, and the minimum payment is \$50 per month.

The College Work Study program permits a student to earn some of the needed funds while attending school. The pay is equal to minimum wage.

"The CSW program tries to put students into a job position that will help them in their career goals," said Vicki Bohn, financial aid assistant.

Students seeking financial aid should be aware that they must register for the selective service in order to be eligible.

The CSW program tries to put students into a job position that will help them in their career goals.

—Vicki Bohn

Christian directs student services

By Jennifer Jones and Evelyn Kellerman

Director of Student Services Robert Christian's job touches many areas affecting student life, campus expansion, and neighborhood developments.

Among Christian's year-round activities are the involvements of two student governments: the Associated Students for daytime students, and the Evening Students Association for night students.

Each group elects representatives from the student body. The elected officials make decisions that affect campus life.

A common goal of both student governments is meeting the needs of students.

"Students are more independent now and tend to spend less time participating in clubs and organizations than they used to," Christian said.

The extracurricular activities, such as Homecoming, club meetings, interscholastic sports, theater productions, the campus newspaper, films, lectures, concerts and seminars help bring a wide variety of out-of-class experiences to participants.

Advisement, counseling, financial aid, minority services, special services, tutoring, career services and job placement add the finishing touches to help students reach their goals.

"I think this year is going to be a challenging year for us because as a college we're facing growth and

I think this year is going to be a challenging year for us because, as a college, we're facing growth and new challenges in terms of technology.

Robert Christian

new challenges in terms of technology," said Christian.

There are two new classroom buildings under construction and a full service registration/advisement center.

Glendale students will be required to have an identification (ID) card this fall.

These bar-coded cards will be needed for anyone using the library, High Tech Center, Fitness Center, Cashier's Office, enrolled in aerobics, or any other student activities, according to Mary Lou Vesely, director of admission and records.

The ID cards will be available starting August 3 in the Student Union and are free, but they will cost \$4 to replace.

Christian is trying to identify and locate former GCC students for an alumni association. Already between 800 and 1,000 students have responded.



Robert Christian: Director, Student Services

● Occupy from front page

"Advisement is there to help students make sure the course work they enroll in is consistent with their educational goals," he explained.

Simpson stressed, however, that the advisers are there to help students fulfill their personal educational goals and, ultimately, it is the students' responsibility to select their courses.

The main focus for the center is on the undecided major, but it also serves any student needing help.

Simpson wants to erase the negative image of the undecided major; in fact, he believes it can be positive for a student to still be searching and exploring areas of emphasis.

Advisement forms

Signed advisement forms are necessary in the following situations:

- New students taking 6 or more credit hours or enrolled in an English, reading or mathematics course.
- Continuing students taking 12 or more

credit hours.

•Any student enrolled in an English, reading or mathematics class.

•The student receiving financial aid.

•The student on veterans restrictive status.

Part-time students are not required to have advisement forms on record.

Phone advisement

The phone advisement program, now in its second year, is increasing in popularity.

"The idea actually got off to a slow start, but now reaches up to 60 calls per day during registration," Simpson said.

The Advisement Center also stocks check sheets for various degree programs for the state universities as well as for GCC.

Assessment for placement

Assessment will still be done in the Student Personnel Services Building.

Assessment is required for any new student taking a total of seven or more credit hours, or taking an English, reading or mathematics course.

The assessment instrument has been changed from the college entrance examination board's reading and English assessment test to the American College Testing Inc.'s Asset (ACT).

The ACT Asset has three components: language usage, reading skills, and mathematics.

Within the mathematics section, students may choose to take a portion involving numerical skills, elementary, intermediate, or college algebra.

Career exploration course

The Career Exploration Course (CPD 102) is taught by a counselor and offers a variety of experiences that may spark an interest in the minds of the students.

"There is no magic in the course. Its intent is to help put them (undecided students) in a direction," said Simpson.

The new center will also house the cashier's office, adult re-entry center, Veterans Affairs Office and high school/college relations.

● Future from front page

Goodyear-Litchfield Community College Center, the tenth unit of the Maricopa Community College system.

One of the possibilities under discussion is a joint-use high-tech facility located on the proposed site of the Goodyear-Litchfield campus.

"We are planning the new campus with the idea of possibly opening some sort of facility as early as 1990," he said.

Pairing with ASU West

GCC is also involved with the ASU West campus. "We've been working very closely with ASU West for at least two years and have established extremely good working relations," the president said.

Joint programs involving the two schools have been discussed.

Waltrip says "it's a perfect match" because ASU West offers junior and senior level courses and GCC offers freshman and sophomore level courses.

Waltrip has been President of GCC since 1975. He first came to the college as a history professor in 1966.

In 1972 he became dean of instruction. While a member of the faculty, Waltrip served as president of the Maricopa Community College District Faculty Association from 1969-70.

Waltrip served for a six-year period in the U.S. Navy. He has a bachelor of science in industry from Millikin University, a master of arts in history from Arizona State University, and doctorate of philosophy in history from Missouri University.

● Council from page 3

•**Universal student.** This group, co-chaired by Dr. Homero Lopez, dean of instruction for arts and sciences, and Naila Erwin, employer development specialist for Digital Equipment Corporation, is concerned about "workplace literacy"—preparing the student to function successfully in a job or career.

Members of the group saw one of their dreams become a reality when construction of the High Tech Center was completed in January 1987.

The council will continue to be involved with the use of computer technology, both on campus and out in the community.

The proposed plan to build a Goodyear-Litchfield Park joint-use campus, which will be a spin-off of GCC is currently a major involvement of the Council. PBIC members Gene Dorr and Briant are working with college and community educators to plan the Vocational Center as the first stage in the tenth campus of the Maricopa Community colleges.

The diverse membership of PBIC has created a network for GCC's IN-

STITUTE for Business, Industry and Technology for discovering how the college can meet a variety of needs in the community.

"People just think about traditional education," said Stan Grossman, INSTITUTE director, "and they are not aware of what the community college can do to serve the training needs of business and industry."

Digital Equipment Corporation, Rio Salado College and GCC merged to upgrade electronics training and combat illiteracy, all in one joint project.

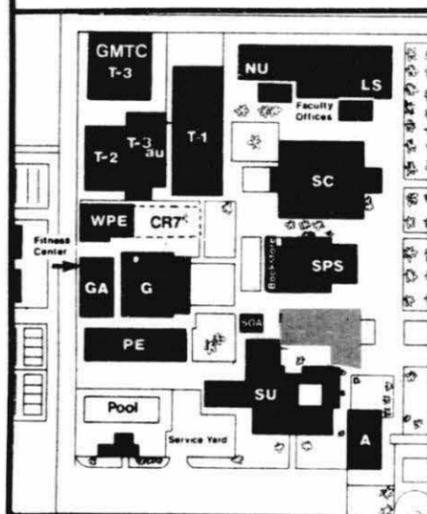
PBIC is hoping to create a Visitors' Center, a place that says, "Welcome, come in," where students can get information and direction.

An alumni association is another main objective of PBIC. The district alumni programming committee defines alumni as "anyone that has registered for and completed a credit class at the college."

Briant sees a community college as not only a transition from high school to higher education, but "as a vehicle to support people in the continuing process of renewal and updating."

West side of campus

Red indicates location of registration center.



● Chemist from page 6

Transfer program

"The chemistry department is basically a support department for nursing and other AAS programs, as well as providing a transfer program," said Murray.

Students who are planning to enter the nursing program must take Fundamental Chemistry 130. CHM 130 emphasizes inorganic compounds, chemical structures, equations, pH, and chemical equilibrium.

The department also offers General Chemistry I and II, organic chemistry and quantitative analysis.

Organic chemistry is the study of organic compounds with applications in biology, agriculture, dental hygiene, home economics and nursing.

Quantitative analysis courses deal with the study of major groups of elements, equilibrium theory, thermodynamics, kinetics and electrochemistry.

Murray suggests students take the advanced courses in order to transfer to a university program, such as pre-med and other pre-professional programs.

Advisement is available for transfer students at GCC.

Chemistry goals

As department head, Murray has some long-range goals for GCC's chemistry program.

"I am hoping to create an outreach program to service the communities of elementary science classes."

There are no official programs as of yet, stated Murray, but she hopes to see one start in the near future.

Clip 'n' save these dates 'n' phones

Fine Arts Calendar

- Sept. 8-18** Paintings and Drawings by Jackie Chisick, 7 a.m. to 9 p.m., Student Union Lounge (SU), free.
- Sept. 28-Oct. 9** Photography Show: S. Capawana, A. Simons, A. Vincent, 7 a.m.-9 p.m. SU, free.
- Oct. 8-10** Variety Showcase '87, 8 p.m., PAC.
- Oct. 13** Music Students' Recitals, 12:30 p.m., PAC.
- Oct. 19-30** Hand-Forged Metal Show, Arizona Artists' Blacksmith Association, 7 a.m.-9 p.m. SU, free.
- Oct. 20** GCC Band Concert, 8 p.m. PAC, free.
- Nov. 9-20** Art Students' Ceramic Show, 7 a.m.-9 p.m. SU.
- Nov. 18-21** Theater Production: 10th Anniversary Commemorative, 8 p.m., PAC.
- Nov. 24** Music Students' Recitals, 12:30 p.m., PAC, free.
- Nov. 24** GCC Concert Band, 8 p.m., PAC, free.
- Dec. 1** Music Students' Recitals, 12:30 p.m., PAC, free.
- Dec. 8** GCC Band Concert, 8 p.m., PAC, free.
- Dec. 10** GCC Choir Concert, 8 p.m., PAC, free.
- Dec. 11-12** One-act Plays, 8 p.m., PAC, free.
- \$1, GCC staff, students; \$2, senior citizens; \$4, public.

Artists' Series

- Sept. 25** Chinese Magic Revue, 8 p.m., PAC.
- Oct. 18** Phoenix Symphony String Orchestra, 3 p.m., PAC.
- Nov. 8** Tziganka Company of Dance, 3 p.m., PAC.
- Jan. 29** Annapolis Brass Quintet, 8 p.m., PAC.
- Feb. 4, 5, 6** Mac Frampton, 8 p.m., PAC
- March, To be announced** Riders in the Sky.
- April 22** Gary Sievers, "Churchill," 8 p.m., PAC.
- May 5** Phoenix Symphony Chamber Orchestra, Masterworks Chorale, GCC Concert Choir, and Peoria United School District Honors Chorus, 8 p.m., Symphony Hall.
- \$1, GCC staff, students; \$2, senior citizens; \$4, public.

Wildlife Series

- 8 p.m., PAC, free
- Sept. 29** "California Gold!" Kent Durden.
- Oct. 21** "Out Where the West Ends," Albert Wool.
- Nov. 5** "Quebec Whales & Labrador Tales," Thomas Sterling.
- Jan. 28** "The Faraway Falklands," Richard Kern.
- Feb. 16** "Outdoor Yearbook," Karl Maslowski.
- April 6** "Odyssey of a Naturalist," Fran William Hall.

Re-Entry Seminars

- 1 p.m., Room LA 141
- Aug. 17** "The Time of Your Life" (Two Monday Seminars for Students Returning to School After an Absence of Several Years), 10 am and 6 pm
- Aug. 28** "A Chuckle a Day Keeps the Doctor Away," Dr. Ken Snyder.
- Sept. 4** "How to Get the Monster Off Your Back," Dr. Roberta Richards.
- Sept. 11** "Master the Five to Ten Minute Decision," Ginger Kelling.
- Sept. 18** "How to Protect Your Life and Property," Corey Michaels.
- Sept. 25** "Image Impact Workshop," Genie Howell
- Oct. 2** "The Feminine Mystique—Puny or Powerful?," Linda Larkey
- Oct. 9** "Putting Together the Pieces of Your Childhood Puzzle," Eileen Hundemer
- Oct. 16** "Taking Charge of Your Financial Future," Johanna Phalen.
- Oct. 23** "Interviewing Skills," Brad Harper.
- Oct. 30** "Burn-Out—Pulling Out of the Slump," Virginia O'Rourke.
- Nov. 6** "How to Meet People," Janet Jacobson.
- Nov. 13** "Programming for Success," Shirley Haworth.
- Nov. 20** "Dreams in Our Everyday Life," Susan Schwartz.
- Dec. 4** "Scared to Death—Fear of Speaking to A Group," Jim Reed.
- Dec. 11** "Can Superwoman Survive the Holidays?," Ellie Marek.

Directory

Main switchboard: 934-2211	
Admissions & Registration: 937-2773	
Administration	Ext.
Dr. John Waltrip, Pres.	200
Dr. D. Jean Staten,	201
Dean of Instruction	
Dr. Homero Lopez,	
Dean of Instruction for	
Arts & Sciences Education	227
Dr. Larry Christiansen,	
Dean of Administrative	
Services	378
Phillip Randolph, Dean	
of Occupational Education	252
Robert Christian, Director of	
Student Activities	254
Stan Grossman, Director of	
The INSTITUTE	384
Elaine Laeger, Director of	
Nursing	284
Alberto Sanchez, Director,	
of Research &	
Development	327
Mary Lou Vesely, Director of	
Admissions & Records	203
Graciela Figueroa, Coordinator,	
Marketing and Public Relations	379
Department Offices	Ext.
Admissions & Registration	204-5-6
Art	286
Biology	274
Business	219
Chemistry	273
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Drama	307,271
Electronics	314
English	338
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International Studies	611
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Math	270
Nursing	313
Philosophy	290
Physical Education	261
Physical Science	275
Psychology	316
Reading	293
Social Science	286
Special Interest	202
Technology	226
Phone numbers will change in Sept.	