Trains, trestles and terminals

by MICHAEL EWEN
Daily Stall Writer

According to Bayne, the computer will determine the speed of the train, the distance it has yet to travel and the possible alternate routes the train could take in order to keep to its schedule.

It will be up to the student to design a program that tells the computer what to do if a certain situation arises, but the computer will actually control the train once it is underway. The computer will take the feedback information and give out data in the form of electrical stimulations to the train's engine and the track's switches.

There are many ways in which computers are used to control an environment once they are programmed.

For example, Bayne said, "a college student may want the classrooms maintained at a certain comfortable temperature during the day. But the temperature can fluctuate with the opening of doors, closing of windows, the actual size of the room and the changing outside environment. However, if a computer is programmed to analyze these changing conditions and can control the air cooling system within the classrooms, then the desired results can be achieved. In other words, the actual environment is any given time tells the computer what to do. The computer takes this feedback data and either activates or deactivates the air conditioning system."

"This project allows undergraduate students a chance to realize that there is much more to computer design and application than just the classical approach taught here at Cal Poly. Many students don't get this opportunity until they enroll in a graduate program," said the professor.

Bayne, a handful of students and a computer science technician have worked nearly three years on designing, constructing and polishing the project. The entire project should be completed and functional by fall quarter, 1977, Bayne said.

Monetary support has come from the Computer Science Department and a small federal mini-grant.

"I would estimate that the project has cost in the neighborhood of $4,000 considering all the small parts, accessories and most pieces of equipment that had to be purchased. So, as you can see, this isn't your average HO train set," Bayne hopes to be teaching an experimental class in computer science sometime next year dealing specifically with scientific computer design and application.

"Even though the HO train set may seem rather out-of- place within the computer science building, it will dramatise an important aspect of computer utilization," said Bayne. "In the real world, aprog. writer won't have to make an HO train meet a schedule around a figure-eight layout, but he may have to program a computer to run an auto-pilot of a jumbo jet or run a cardiac-care unit for a hospitalised patient. The potential for the scientific application of computers is out there and hopefully this project will spark some interest."
functions normally associated with bathrooms. But the system wasn't dry as a result. It was dry by philosophy lectures.

Responding admirably (so I thought) to the situation, I packed my shaving gear and my toothbrush, jumped in the car and headed for the gym over at school. What this anecdote illustrates is how much we take for granted the luxuriant use of water. Why worry about it? Just turn on the faucet, and there it is.

Having to do without for awhile makes one think. I'm reminded of the recent program in San Francisco which calls for a 15 per cent reduction in water consumption. Preceding that was the Marin County drought, when water was conserved by limiting daily usage to a maximum of 48 gallons per person. Water was metered and those exceeding their allotted share were subject to fines and water shut offs. Officials encouraged conservation by issuing residents low-flow shower heads and plastic toilet dams. There are a lot of cars and dusty lawns in Marin County.

Statewide, a possible two billion dollars in agricultural losses may be suffered this year, according to agriculture specialists. If everybody will conserve even a small amount of water by not running the faucet excessively, that collectively will amount to a lot.

Having to do without it for awhile makes me realize what an essential commodity it is. All this sounds remote and unrealistic, think again.

Everybody wants to continue to use water in the ways they are accustomed to. Gov. Edmund G. Brown's term "fragile expectations" certainly applies in this situation. People's lifestyles are going to have to be altered somewhat. If everybody will conserve even a small amount of water by not running the faucet excessively, that collectively will amount to a lot.

As the anecdote above. I used the gym as an alternate source of water. But, on a country-wide or state-wide level, there is no similar reserve. We've got to make do with what we have.

And that's less than you think.

ROTCA revival

One sign that the volunteer Army may not be such an impossible dream after all is the slow-but-sure revival of the ROTC program on college campuses. Army ROTC enrollment has risen from a low of 55,000 in 1972 to 55,000 to 57,000 in 1974, with another increase expected in the fall of 1977. That doesn't compare with the 177,000 enrolled 10 years ago, but at least the trend is in the right direction.

There's no mystery about what happened to ROTC. It became the handy scapegoat, the easy target, for college students who opposed the Vietnam War. Some schools actually disbanded their ROTC units under pressure from students and faculty members.

Now the attitude toward ROTC is changing. The war is over, the Vietnam syndrome has run its course, and ROTC (for college ROTC) is an extremely attractive, and the overall quality of ROTC (with its leavening effect on the military) has improved markedly since the late 1960s.

Some purists would argue, no doubt, that military science has no place in a civilian institution of higher learning. But the fact is that training future officers in such schools is good for the country because it has a leavening effect on the strictly military point of view.

The Army now gets six times as many officers from ROTC as it does from West Point, and about one-third of its late 1960s Army ROTC enrollment has risen from a lot of 33,000 in 1972 to 55,000 to 57,000 in 1974, with another increase expected in the fall of 1977. That doesn't compare with the 177,000 enrolled 10 years ago, but at least the trend is in the right direction.

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Petition for more photo labs

by KIM LACOMBE
Daily Nugget Writer

The art department's photography classes and students have
what they describe as 'poorly inadequate
adequate darkroom facilities.'

The petition states the Art Department's facili-
ties are "too few to adequately support all the studen-
t at the department."

The petitioners have asked that the architecture department
the Art Department's facilities and En-
partment rush to make available
as adequate darkroom facilities.

The petitioners are
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### Monday Night Special

**Continued for Spring Quarter**

- **Beef Ribs only**: $3.95
- 2 miles south of Hwy. 1
- Foothill Blvd.

### Monday to Saturday

<table>
<thead>
<tr>
<th>Time</th>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
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<tbody>
<tr>
<td>6-9</td>
<td>CONTEMPORARY MUSIC</td>
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<tr>
<td>12-3</td>
<td>BIG BANDS AND ALL THAT JAZZ</td>
<td>PACIFIC CONCERT</td>
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<tr>
<td>3-6</td>
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<tr>
<td>6-9</td>
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<td>12-3</td>
<td>WITH LARRY ROBINSON</td>
<td>WITH LARRY ROBINSON</td>
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### KCPR - 91.3 FM

#### Tuesday Schedule

- **CONTEMPORARY MUSIC**
- **ROCK MUSIC**
- **BIG BANDS AND ALL THAT JAZZ**
- **SUNDAY BY REQUEST**

#### Wednesday Schedule

- **CONTEMPORARY MUSIC**
- **ROCK MUSIC**
- **BIG BANDS AND ALL THAT JAZZ**
- **SUNDAY BY REQUEST**

#### Thursday Schedule

- **CONTEMPORARY MUSIC**
- **ROCK MUSIC**
- **BIG BANDS AND ALL THAT JAZZ**
- **SUNDAY BY REQUEST**

#### Friday Schedule

- **CONTEMPORARY MUSIC**
- **ROCK MUSIC**
- **BIG BANDS AND ALL THAT JAZZ**
- **SUNDAY BY REQUEST**

#### Saturday Schedule

- **CONTEMPORARY MUSIC**
- **ROCK MUSIC**
- **BIG BANDS AND ALL THAT JAZZ**
- **SUNDAY BY REQUEST**

### CAL Poly - Mustang Daily

- **PACIFIC CONCERT**
- **SUNDAY BY REQUEST**
- **CONTEMPORARY MUSIC**
- **ROCK MUSIC**
- **BIG BANDS AND ALL THAT JAZZ**
- **SUNDAY BY REQUEST**

### Wood Crafts

- **RECORD EXCHANGE**
  - 789 Foothill
  - RECORDS
  - CHEAPEST PRICES

- **CALCULATORS**
  - AT DISCOUNT PRICES
  - Texas Instruments, Hewlett Packard, and others.
  - Check my Mustang classified ads for current hours.

- **THE CALCULATOR SHOP**
  - 544-1423
  - 1160 Marsh St. Suite P
  - (Part-time hours)

### Other Locations

- **P&D WOODCRAFT**
  - 738 Humbert St 543-8850
  - Just off Broad St.
  - next to San Luis Glass

- **TOFU S/SALADS-SANDWICHES-FROZEN YOGURT-SHAKES**
  - 967 Monterey St. 644-7909
  - directly across from Copeland's Sports

### KCPR General Manager

- **Mark Riel**
- **KCPR General Manager**
**Program Log**

**Wed**

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<tr>
<th>TIME</th>
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<tr>
<td>12:00</td>
<td>COMMONTEMPORARY MUSIC With Larry Robinson</td>
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<td>1:00</td>
<td>COMMONTEMPORARY MUSIC With Frank Thomas</td>
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<td>2:00</td>
<td>COMMONTEMPORARY MUSIC With Jen Russell and Steve Dotman</td>
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<td>4:00</td>
<td>ROCK MUSIC With Charlie McCarthy</td>
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<td>5:00</td>
<td>ROCK MUSIC With Dennis Beers</td>
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<tr>
<td>6:00</td>
<td>PACIFIC CONCERT With The Captain</td>
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<td>7:00</td>
<td>PACIFIC CONCERT With Phil Edwards</td>
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<td>8:00</td>
<td>ROCK MUSIC With Doug Amberg</td>
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<td>9:00</td>
<td>ROCK MUSIC With Wolf</td>
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<td>10:00</td>
<td>ROCK MUSIC With Jen Ivesen</td>
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<td>11:00</td>
<td>MUSIC With Wanda Lust</td>
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<td>MUSIC With Chris Sandys</td>
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<td>CONTEMPORARY MUSIC With Larry Robinson</td>
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<td>THE CAPTAIN'S TOP 20 COUNTDOWN</td>
</tr>
<tr>
<td>1:00</td>
<td>COMMONTEMPORARY MUSIC With Larry Robinson</td>
</tr>
<tr>
<td>2:00</td>
<td>COMMONTEMPORARY MUSIC With Frank Thomas</td>
</tr>
<tr>
<td>3:00</td>
<td>COMMONTEMPORARY MUSIC With Jen Russell and Steve Dotman</td>
</tr>
<tr>
<td>4:00</td>
<td>COMMONTEMPORARY MUSIC With Kim Allen</td>
</tr>
<tr>
<td>5:00</td>
<td>ROCK MUSIC With Charlie McCarthy</td>
</tr>
<tr>
<td>6:00</td>
<td>ROCK MUSIC With Dennis Beers</td>
</tr>
<tr>
<td>7:00</td>
<td>PACIFIC CONCERT With The Captain</td>
</tr>
<tr>
<td>8:00</td>
<td>PACIFIC CONCERT With Phil Edwards</td>
</tr>
<tr>
<td>9:00</td>
<td>ROCK MUSIC With Doug Amberg</td>
</tr>
<tr>
<td>10:00</td>
<td>ROCK MUSIC With Wolf</td>
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<tr>
<td>11:00</td>
<td>ROCK MUSIC With Jen Ivesen</td>
</tr>
<tr>
<td>12:00</td>
<td>MUSIC With Wanda Lust</td>
</tr>
<tr>
<td>1:00</td>
<td>MUSIC With Chris Sandys</td>
</tr>
<tr>
<td>2:00</td>
<td>MUSIC With Steve Dotman</td>
</tr>
</tbody>
</table>

**Radio**

**International Imports**

**THE LARGEST IMPORT STORE ON THE CENTRAL COAST**

**Nomadic Furnishings**
860 Monterey Blvd.
San Luis Obispo

**SUPER BURGER**
From **SIZZLER**

**Take it with you...**

**Hungry?**

It's time for a SUPER BURGER from **SIZZLER**

**Enjoy it while you're there**

**International Imports**

**Up your Alley**

Discount Fashion for Women

**Supermarket**

**Records Tape/Recording Supplies**

**Dairy Queen**

**Brazier**

- SUPER braziers
- 1/6 braziers
- 1/8 braziers
- 1/16 braziers
- BRAZIER
- SUPER braizer
- Chill Dogs

**SUPER ALL-DAY TO DINNER QUEEN**

12 Broad St.
San Luis Obispo
542-7948

**SUPER ALL-DAY TO DINNER QUEEN**

12 Broad St.
San Luis Obispo
542-7948
Covering costs on the college paper

April 7, 1977

Meals' *6

1

Times and acting Muatang
Claude Ratliff, former
Covering costs on the college paper
ataff to aolicit enough adver­
(a) is responsible for selling ads
Daily Publication* Manager,
achool, Muatang Daily relic*

in a aerie* of
Page 6

In recent year*, the Daily'*
Operating
Unlike many college and
Daily Aasodate Editor

(ATHLETE OF THE WEEK

on sale at El Corral
Special selection of
product of A. A. Stagg high achool. A
both pitching end batting, Pancllla la a
Pancllla, alx foot, 160 pound pltohor
Phyalcal Education malor, Pancllla waa
performance.
In hla laat outing, Pancllla ahut out
the Pomona nine 3-0 In a five hit

administrative public we serve, but only
into the deficit for Mustang Daily, something

"The Sun Bulletin is our
number one competitor in advertising dollars, not
because it serves the same public we serve, but only
because we draw from the same pool of "Chico merchants.", Ratliff said.

"Ads advertising rates are
lower (than the Telegram-Trimbee and Sun Bulletin),
but for a considerably less circulation," Ratliff explain­
"Also, there are certain business establishments that do not participate in student spending, like the furniture
stores."

For example, Mustang's
rate for 45 column inches in one issue is $98.75. In the
Telegram-Trimbee and Sun Bulletin, the price is
$187.70 and $100.80 respectively.

in selling ad space to
advertisers. Ratliff said he tells them that Mustang Dai­
y is "a student paper that is distributed on campus with
an estimated one and one-
half readers per issue. We're

"Right now, I don't have any
real solution. I want everyone­
graphics, ASI, journalism, the administra­tion-
together and solve this."-Gersten.

using our distribution on
case by one-half of the
6,000 issues.

"We send about 800 inches of
advertising per issue (50 per
page) for each of these operations," Ratliff said.

Can Mustang Daily sur­
 vive in financial crunch?
"As long as we can keep a
good product and maintain a
good distribution policy," Ratliff said, adding that dis­
tribution was cut off downtown last November. "If you
don't have good distribution, advertisers won't care about
selling an ad. If I can't prove I have an audience by shared
distribution or paid circula­
tion, it's not worth as much.

"Its strong points is that
reaches a public that isn't
reached in any other way," Ratliff said.

"The college
community, that's our
public," Gersten, director of
ASI Business Affairs, said it's
his responsibility to insure that every ASI-spon­sored
project, Mustang Daily is one of
their biggest learning
decisions they have to make.

"There is a conflict in in­
ternal politics between he
ASI-Publisher's Board and the
ASI Business Affairs, said it is
our duty to help keep Mustang
under a solvent basis.

"The board consists of the
advisory to the ASI and one
collecting by journalism stu­
other CSUS System school.

"To help us solve the
deficit for Mustang Daily,
take, Gersten said: 
we have to find a way to
advertisers what it is
take, Gersten said: "
that don't have my
real solution. I want
speak at a conference that
in the paper. He also directs
advertising students. "It's
who help sell ads.

There are some problems with
selling ads. One is com­
petition with such local
publications as the
Telegram-Trimbee, Easy Ad
and the Central Coast Times.

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"The college

Special selection of
Plant &Gardening Books
on sale at El Corral
Mon. April 11, thru Sat. April 16

DAVE PENICILLE
Pitcher
Penicille, six foot, 180 pound pitcher
hails from Stockton. Right-handed in
the box, setting, Penicille is a product of A. A. Stagg hig h school.
A Physical Education major, Penicille was
drafted sixteenth by the Brewers.
In his last outing, Penicille shut out
the Pomona nine 3-0 in a five hit
performance.
Kevin Kickelihon then replaced McGraw on the mound for Long Beach, only to face Firenia and have his fly ball go right field to end the disastrous sixth inning.

With only three outs to go before having a perfect game, Bauer had Barry Loeuma fly out to right field before Desirel came to the plate. He then retired Gary-Petit and Zouros in order to preserve his shutout.

Head coach Buddy Harr was pleased with his pitchering against Long Beach. He emphasized that going for the perfect game was not what Bauer was going for, but just the fact that he got a no-hitter. But he was very pleased with the pitching performances we had this series. 

"The most important thing was to win the ball game, and it would be icing on the cake to throw a no hitter. I am really pleased with the pitching performances we had this series. Montreal Melo (pitcher of Monday night's win), Bauer and Hamlin are all sophomores and may just be scratching the surface of the pitchers we will have in future years," Harr said.

Steve Miller’s crew is coming off a 12-1 victory over the SCU Blue Jays last Friday. The Men scored in the second inning as Mike Zouras in order to preserve his shutout.

Pitcher Ed McGraw came up against a brick wall in the sixth inning turning turned out to be the winning hit as it scored Darin Smith from second to break a 1-1 tie.

Kevin Baker walked to load the bases, and Boyers hit a two-run single. Dunn also singled, scoring Felig from second base to make it 7-0.

After a full round of batting, Desirel came back up to tie with runners on first and second and blasted his third home run of the inning, this one to left-center field to give Poly in action.

He is heading into the final three weeks of the season with only 18 games remaining, playing with 19 more wins than losses, there is no way Poly can end the season without being a factor in the title.

Coach Harr probably would have let McGraw keep the game alive in the season.

Field will be in seeing in the Masador contra its last game because the Mustangs find out their home schedule at San Luis Obispo State, so this will be the last time you won’t have to go on the road for Poly in action.

Thursday’s win was the 13th consecutive for Poly. It is looking at a 13-0 mark in intercollegiate play.

The California Collegiate Athletic Association season opens for the men’s tennis team when it compete in a NCAA round robin tournament Friday and Saturday in Northridge. The Mustangs will take with them a 6-7 dual record, but Coach Free Lambert figures on coming back with the top spot in the country.

"We must be favored to take it," said Lambert. "Bakersfield may upset us over the head of Dennia Firenia in left field for a 2-7 win."

Bauer’s next start will be at Long Beach Saturday. But he has nothing else announced.

Where they’ll be, they’ll do

By SCOTT CRAVEN

Poly will try to prove that it is more than a powerhouse to be reckoned with. Most of the Mustang men are seniors and will uphold the Poly reputation in the Valley as theirs throughout California.

The Men’s spikers bend the San Luis Obispo Rick Warm in a challenge match of Pacific-10 regulars.

The spikers will have a lot of incentive to win because they have been standing on the others’ shoulders for a while now.

They played well against Stanford and Coach Ken Proven after having their men’s banner hanging at the hands of the Blue Jays.

They were finally expected to be fired up and have posted a couple of good victories.

With only 18 games remaining, playing with 19 more wins than losses, there is no way Poly can end the season with a losing record.

Coach Harr probably would have stayed McGraw on the mound for Long Beach to preserve his shutout.

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**News Shorts**

**International**

Lebanon battles continue

BEIRUT, Lebanon (AP)—Christian militiamen and Palestinian guerrillas fought street battles for small hill in southern Lebanon near the Israeli border.

It was the third day of a Palestinian counter-offensive to regain the bases from which they raided and shelled Lebanon during the civil war.

Guerrillas and their leftist Lebanese Muslim allies said they gained important Christian tanks and militiamen from the crowd area of Taibeh, three miles north of the border, and a nearby hill named Rub Tabbaneen.

**National**

Flood sweeps Appalachia

UNDATED (AP)—Residents of flood-battered Appalachian states were reporting levees today in a race with rampaging creeks and rivers that drove thousands from their homes.

At least 32 people were reported killed in the destructive wind and rain storm that spread out of the Mississippi Gulf toward the Northeast and swelled waterways in the Southeast.

Proposal for food-stamps

WASHINGTON (AP)—President Carter says Congress can't change his proposals for revamping the federal food-stamp program by no more than $100 million or he will veto the plan.

Opposition to Carter's plan is likely from urban Democrats who want higher benefits for recipients.

"Group mind" and Watergate

BERKELEY (AP)—The Watergate tape recordings of former President Richard Nixon reveal the work of a "group mind" functioning with dazzling efficiency, two University of California researchers report.

Key passages of the tape transcripts were probed for "group mind" functioning by scholars Richard Nixon reveals the work of a "group mind" functioning with dazzling efficiency, two University of California researchers report.

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Mathematical Sciences

Kappa Mu Epsilon is sponsoring a career conference related to industry, federal, state and local government and the Cal Poly co-op program. The conference will be held in the Math building starting at 11 a.m. today.

Dietetics Club

The Dietetics Club welcomes all new and returning members and urges them to come to the meeting at 7 p.m. today. A former Cal Poly Dietetics graduate will be the guest speaker. The meeting will be held in the Home Ec. living room.

Country western dance

Moor Mills and his Lucky Horseshoe Band will perform as a country western dance band held Saturday, from 9 p.m. to 1 a.m. at the Veteran's Memorial Building. Admission is 75 cents.

Orientation meeting

All students interested in volunteering as a tutor for young people k-12 are welcome to attend an orientation meeting this week by the Outings Committee. DepamntalM.

**State**

Increase in prep academics

SACRAMENTO (AP)—Whatever critics say about California high school academics, they apparently aren't slaking away from academic classes in favor of auto shop and cooking.

A state study released Tuesday said classes in all academic areas gained in enrollment last year, and virtually all vocational classes declined.

The study covered 1,794 schools in 7th through 12th grades in 1977-78.

Hancock student big winner

SAN FRANCISCO (AP)—An 18-year-old college student has been paid a record $15,999 for her graduation speech by the Junior Chamber of National Livestock Exposition.

Pertram Gardner, of South San Francisco, a student at Hancock College, sold the speech for $15,999 to Roan Ranch, a Los Angeles-based school. The payment was nearly four times the old record of $4,25 per pound.

**Potted Easter Lilies**

$5.00

Available at the

Campus Store and

Poly Plant Shop

(at the O.H. unit)

**Outing to Bear Valley**

A snow camping trip to Bear Valley is planned for the weekend by the Outings Committee. Departures for the two-day, three-night trip will be held at 11 a.m., 2 p.m. and 4 p.m.

**Spring is here! Butterflies and flowers and sunsets and bikinis and...**

For $17.00 per quarter a Cal Poly Health Card will give you added medical protection at Cal Poly.

**Services**

**Without Plan**

Campus Hospital

$45 a day

Urology Clinics

$17.50-$50

Oro Health Program

$3-$10

Emergency Room

Priced in relative value scale

with 5 p.m. & 7 p.m. coverage

Pharmacy Charges

Part

**With Plan**

Priced in relative value scale

with 5 p.m. & 7 p.m. coverage

Pharmacy Charges

Part

**Student Health Services**

Last day to buy Health Card is April 15th

Available at the Foundation Caucus.