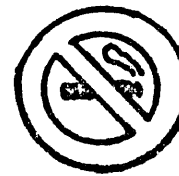


INFLATION HITS KAISERS & SUBS

The Math Society's Coffee and Donuts stand officially opened on January 6, 1976 at 8:30am after a very hectic day of running around, late phone calls and unbelievable madness by the new manager and assistant manager. Despite all the disbelievers, our only major problems were a surplus of subs and kaisers (because they arrived late in the day) and coffee being served after 8:30 because the manager wasn't awake enough at 1 o'clock Tuesday morning to figure out how to plug in our spiffy timer. In any case, the most major change to our current operation that was different from last term is an increase in the cost of subs and kaisers - they have both risen by 5¢ making them 85¢ for subs and 60¢ for kaisers; all other prices remain the same: 10¢ for coffee and tea; 15¢ for soups, hot chocolate and donuts. Also, our hours of operation are 8:20am till 4:30pm Monday to Friday. Finally, just in case you don't already know, the C&D stand is located in room 3001 of the Math building.

wanted:



"No Smoking" signs were ordered by the president of the university (B.C. Matthews) as mentioned in his memo to all students, faculty, and staff in October and were put up over the Christmas vacation at over 500 locations on campus. Sticky-back posters were used in an effort to save money. If these signs are torn down they are likely to be replaced by permanent signs at an expense of thousands of dollars, which is not likely to make Matthews very happy. Anyone objecting to the signs would be wise to talk to Dr. Matthews about it rather than tearing down the signs. Smoking has been forbidden since 1967 in elevators, classrooms and anywhere the University does not provide ashtrays.

Of 19 classrooms surveyed in the Math building Tuesday night, only 8 had the signs intact. Presumably in the other 11 rooms the signs have been torn down. In the 4 elevators, 2 of the signs have been removed and the other 2 have been defaced.

FRIDAY, JANUARY 9, 1976
ISSUE 4.0

math NEWS

THE FALL OF 1975

A little over 3 months ago, two things became very apparent: first, the supply of math T-shirts was beginning to run low; and second, the Anticalendar was long overdue. On October 3, Mathsoc decided to use Double Bull rather than Tiger brand for the new T-shirt order. Double Bull promised faster delivery time as well as being 60¢ cheaper. When the T-shirts did not arrive in early November, Geoff E. of Double Bull kept promising delivery soon, but eventually admitted that there was a large backlog.

Virtually no work was done on Antical during the summer, so a secretary (who knew no Roff, which is why oddities like "confusing" turned up in the final product) was hired to type in the comments. A mathNEWS production meeting on November 4-5 assembled the publication and it was sent off to the printers only a week later.

The race was on! Which would arrive first, the T-shirts, Antical, or Christmas?

The presses were stopped for a week as some faculty members spoke of a lawsuit for libel, then printing was resumed. At this time a not-quite-duplicate page mysteriously replaced a page that it should not have replaced...

The Antical made it to Mathsoc's MC 3038 in mid-December, just ahead of the Co-op T-shirts. The correction page appeared soon afterwards, and Antical is available now in 3038.

Christmas came next, and the other three T-shirt designs have not yet appeared. They have been promised for this week, so watch out for them...

Other major news items from the past term...

The regular night-time security patrols of this and all other buildings were cancelled in September in an attempt to save money. By late November, 7 of the HP45 calculators in room MC 3047 had been stolen, and that room was closed. Some of the calculators were moved to the EMS library (available for exchange of ID card).

Two "art objects" appeared on campus: between the CC and the PAC, that memorial to all those poor souls who perished while trying to find their way home from the CC Pub; and between B1 and the Arts Library, the "red worm" or "slug" which was removed after a few weeks and now resides in a garage.

Food Services did not take over the Mathsoc and engsoc coffee & donut stands.

Lockers were given out in only 2 hours and 20 minutes on September 9. Mathsoc decided to buy more lockers; they will arrive this term.

The examination room, which had been MC 4022 until EMS library expansion displaced it to the Arts Library in 1973, was displaced by Arts Library expansion. It is now located in the former Great Hall of Village 2. Students writing midterms there for the first time are advised to allow plenty of time to find it! The accompanying map shows how to get there.

Room MC 3063 was merged with 3061, 3021, and 3020, by removing a few walls. It contains a minicomputer lab including a Nova, a Microdata, and of course a model railway, as well as a phototypesetter and now a slot car layout.

...to page 2

...from page 1

Another new computer lab was room MC 3008. This contains a Tektronix 4013 graphics terminal running at 1800 baud, and 25 slave CRT displays, which show the contents of the Tek's screen. It's used for statistics courses as well as computer science.

Also on the CS scene, eight 2741 terminals from MC 3018 have been sold to Arts and replaced by Volker-Craig CRT's, which, however, are running at 2741-speed, because of the lack of high-speed line adaptor capability.

Beginning in September 1976, math courses will be named after the departments, like science courses, and will carry the suffix Y if they are year courses... for example math 233 might become stat 233Y.

The Math Faculty Council passed a motion to make all first and second year compulsory math courses term courses. The Senate's approval is expected shortly.

Two new sections appeared and disappeared in mathNEWS: Problems, and Women in Math.

Math had an October Crisis. An n-jineer raiding party captured 60 unsold T-shirts and held them for ransom. Needless to say, the T-shirts were rescued with no ransom paid.

The n-jineers attacked again, four days later, on Hallowe'en. This time they were routed as Mathsoc used chemical (H₂O) warfare techniques.

The C&D manager, Ron Hipfner, was injured in a bicycle-car accident, and temporarily replaced by Bruce Mills.

On November 10, the Special-K contest for first year mathies was won by David Petroff and Peter Peng (tied); meanwhile, Rick Cameron won the Big-E(uler) contest for upperclassmen. The Putnam contest was written on December 6. Here, UW is attempting to defend its North American title.

UW's computer chess program, Treefrog by Ron Hansen, finished second to Chess 4.4 in the annual ACM tournament in Minneapolis.

J. J. Long resigned as the Federation treasurer, citing disagreements with President John Shortall.

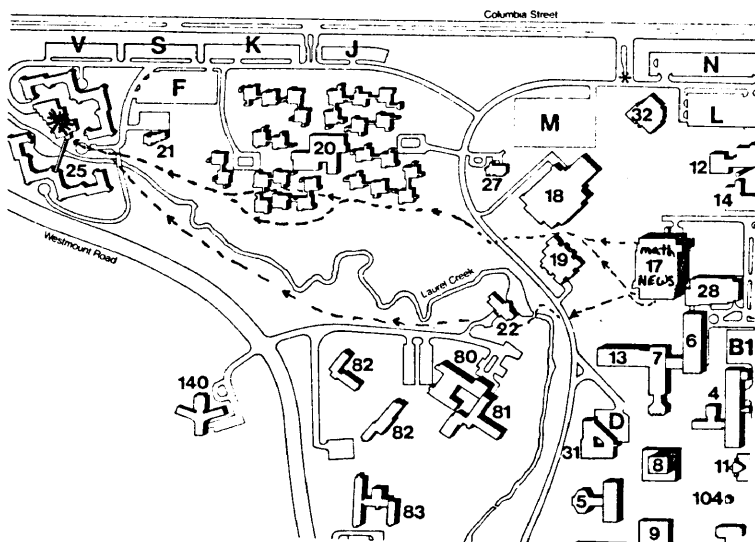
Scisoc member Mike Wallis founded the Science Fiction Club.

Gary Prudence coordinated the Antical survey of Fall 1975 classes amidst such difficulties as recalcitrant profs and vanishing survey kits.

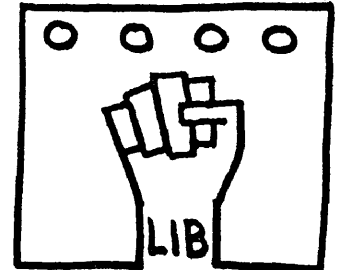
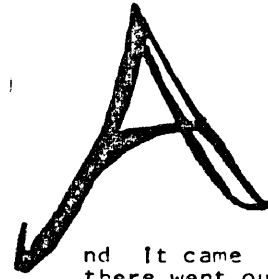
In the Red Cross Blood Donor Clinic, almost half the donors failed to indicate which faculty they were from. Based on those who did sign the lists, the Blood Bowl was awarded, of course, to Math.

Columbia Lake

Examroom



COMPUTER



And it came to pass in those days, that there went out a decree from Burt Matthews, that all the world should be taxed.

And all went to be taxed, every one into his own faculty.

And Peter also went up from the second floor, out of Dabur, into the third floor, unto MCFE, which is called Bun; (because he was of the department of Computer Science:)

To be taxed with Mary his project partner, who was working on a program.

And so it was, that, while they were there, the days were accomplished that she should submit the program.

And she wrote her first program, and checked it for errors, and typed it on a 2741; because there was no room for them in the telerev rooms. And there were in the same room mathNEWS staffers, typing their stories by night.

And, lo, a mail message from gembro came upon them, and the glory of rib shone round about them; and they were sore afraid.

And gembro said unto them, Fear not: for, behold, I bring you good tidings of great joy, which shall be to all users.

For unto you is run this day in the Honeywell a program, which is not a drun.

And this shall be a sign unto you; Ye shall find the program all compiled, typed into a 2741.

And suddenly there was with the message a multitude of messages from other users praising the new processor.

Then the staffers went and saw the program, and congratulated Peter and Mary.

And there were hacks who had done a 1st, and seen the new program, and done a wuse to locate the terminal, and had come to the third floor.

And they arrived in the office of rprurd, and asked of him where the terminal was to be found.

And he consulted the operators as to where the terminal was to be found.

And they told him that the terminal was to be in 3017, as it was written.

And he returned to the hacks, and told them, "Go and search diligently, and when you have found it, bring me back word that I may come and see it too."

And they went and found the program, and brought gifts of resources, and links, and permissions.

This incomplete scroll was found by accident stuffed behind a toilet on the third floor.

classifiable

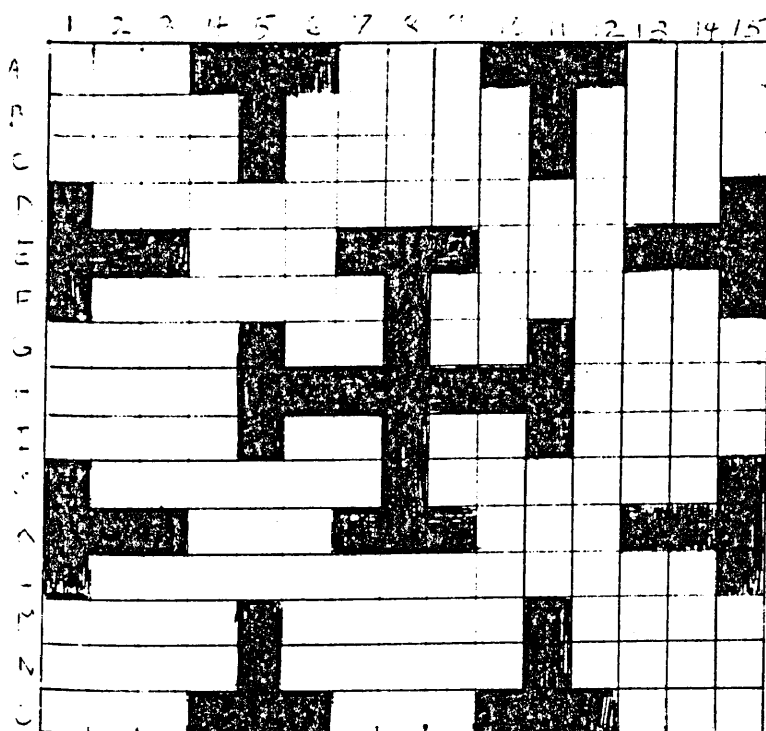
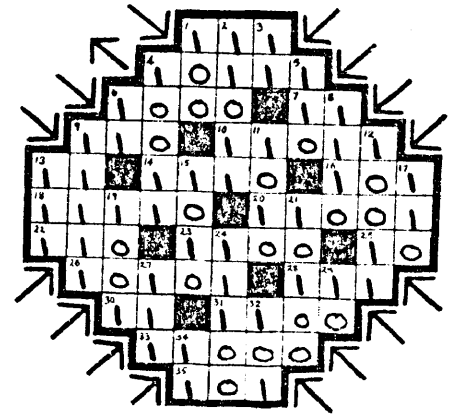
AD

To Sublet: For spring term (May-August) 1976, two-bedroom apartment in Waterloo Towers. 5 minutes from university. Only \$235 per month. Call 885-2522 after 6:00 Monday-Thursday.

→ **GRIDWORD**

- a1. Fortran built-in function.
- a7. Private railway.
- a13. Memory where part of a word is used to reference that word.
- b1. Favorite exam question.
- b12. Operatic solo.
- c1. Derangement of ceremony.
- c6. Pertaining to our satellite.
- c12. Drain pit.
- d2. Used to reference portions of words on certain machines (e.g. PDP-11).
- e4. Common base.
- e10. Jew, recent (prefix).
- f2. Part of the lymphatic system.
- f9. Warm region tree.
- g1. He, that one (Latin).
- g6. Preposition.
- g9. Acidity indicator.
- g12. Hostelry.
- h1. Bull.
- n12. French angel.
- 11. Bill of fare.
- 10. Thus.
- i9+91. French composer: Edouard ---.
- i12. Far (prefix).
- j2. Annoy.
- j9. Ancient anger.
- k4. Upon (Fr.).
- k10. Film with Peter Falk and Jack Lemmon.
- 12. First derivative is zero, here.
- m1. L * W.
- m6. Zeal.
- m12. Student's nemesis.
- n1. Statistical tool.
- n6. Slowly (us.).
- n12. 1.6 * Venus's revolution period.
- o1. Night-stalker.
- o7. 'bun sign-off.
- o13. Some drinks are like that.

- ↓
- 1a. Pertinent.
 - 1g. "The almighty one" (??).
 - 1m. I love (Latin).
 - 2a. Woman's name.
 - 21. Ship's company.
 - 3a. Chop ---.
 - 3f. Intersection of two 3-D spaces.
 - 31. Datatype.
 - 4b. Tchaikovsky's symphony #2.
 - 5d. Three times 2.7182818....
 - 5j. King ---.
 - 6b. "Wandering star".
 - 61. Parallel.
 - 7a. Engine deposit.
 - 7f. Denial.
 - 71. Lither.
 - 71. Nebula that is a powerful radio source.
 - 8a. Body of water.
 - 81. Thirsty.
 - 9a. Bellow.
 - 9f. Associated Press.
 - 91. See i9.
 - 91. Theater box seat.
 - 10b. Special kind of toast.
 - 101. Last NFL game of the season.
 - 11d. Body of water.
 - 11j. Dynamic ---.
 - 12b. The composition of functions always has this property.
 - 13a. Logical value.
 - 13f. Interior.
 - 131. Destitution.
 - 14a. Goals.
 - 14f. A measure of divergence (in lines, planes, ...).
 - 141. Emperor.
 - 15a. Inter-record --- (mag. tapes).
 - 15g. Behold.
 - 15m. Endeavor.



created by Roy Jones!

3

NAME
NO.

This
Week's



GLIMPSE

Here it is, the start of another term and mathNEWS' 4th (fourth!) year of publication. Yet again, some student has labored long and hard to fit a number of genuine words into the blank squares in the accompanying grid and left a lengthy list of clues which should enable you to fit the same words into the same spaces. By completing this process and submitting your solution to mathnews, by any means available (including bun, Mathsoc, dogsled, postesCANADApост, mathNEWS mailbox, etc.) before or at next week's production meeting (Tuesday, 7:00+ pm., MC 3011), you could become eligible to win a math T-shirt (assuming they arrive!). If you are a winner, you can get your T-shirt coupon at any production meeting. You will know you are a winner if your name appears in this column like:

This week's winner is:

-->>> Harry Vanderzand <<<--

or:

The subscriber winner for last term is:

-->>> Dave Newell <<<--

Harry and Dave can get their coupons at any production meeting. Good luck!!

JJ Long

FED REPORT

This Tuesday, January 6, Fed Council held its first meeting of the year. Though quorum (and the president) was late in arriving, there was some business accomplished. It was decided to give full time Fed worker Shane Roberts a leave of absence for two weeks. Shane has been working extra overtime for the Feds and it was felt he might need a few weeks to rest and take it easy. Council also reversed its stand of the December 2, 1975, meeting and decided to stay within the by-laws by holding Presidential elections Jan 28 (nominations close Jan 14) and Council elections Feb 12 (nominations close Jan 29).

The Student Aid issue was discussed with the purpose of getting people to attend the rally in Toronto on January 21 to work against the Henderson Report, a report threatening the future of post-secondary education in Ontario. After much discussion the Feds decided to support NUS (but I wonder whether it was in their best interests at this time). A referendum asking whether you want to pay a compulsory \$1.00 a year fee to join NUS will be held on the day of the Federation Presidential election.

With regard to the presidential elections it is interesting to note that Mathsoc VP and Creative Arts Chairperson Gary Prudence was appointed CRO. He will be assisted by Council Speaker Phil Reilly on the Election Committee. Many people declined to sit on the committee because they were involved in presidential campaigns.

With the Presidential and Council Elections approaching us it would be interesting to know what you the students would like to see in your candidates. I myself would like to see candidates who are willing to try things that are not usually tried in the Federation, but at the same time I would not like to see some far-left radical come along and screw things up for the students and wipe out gains that students on this campus have fought for years to attain.

It does not matter so much whether these candidates are new to the Federation or very experienced. More than new blood, I would really like to see new ideas, though it would be helpful to involve new people in the Federation. The President and most of the Executive have not communicated well with council (no agendas were given to councillors for this past meeting) and generally the students on the campus in the past year. In fact all Federation communications need improvement. The Federation needs to make better use of the Chevron and Radio Waterloo, while keeping them somewhat autonomous. New methods should also be tried in this field.

The Federation should streamline its structure to some degree by reviewing bylaws and policies, and by merging and re-organizing boards. We should also practice more care and financial responsibility in dealing with the students' money.

CFS is important to student affairs in this province, but the Federation must straighten out its own affairs right on campus, so that it can better serve the students and build an effective base for external efforts. I hope candidates will strive to promote better Federation-Society relations and co-operation. The Federation and Societies can and have worked better than they do today.

As you may know by now, there have been many problems in the Federation this year, and the the organization has been cited as becoming quite elitist. Whether you know it or not, these things do affect you the students. It is my hope that there will be candidates committed to make an effort to correct our many problems. Hopefully people will strive to make you feel once again that it is indeed your Federation.

system ? **BURLOAF**

The Federation of Students (particularly the president, student council and associated people) has long been known as a spokesman (spokesorganization) of the oppressed people of this world. In many cases they have pointed out injustices in society which make various people, particularly students, losers. Much of their complaining appears in the Chevron. However, yet an injustice arise which makes these people winners, and who is the first to start explaining why the injustices must be perpetuated, giving flimsy (if not invalid) excuses as reasons? The very people who claim to want to end such injustices, your Federation of Students.

The injustice I refer to is the green cards that council has seen fit to give to themselves to allow themselves free admission to all Federation-sponsored events. In this way, the rest of the student body can help pay for the admission of councillors.

When President Shortall saw the unpopularity of the inequality the passes render, rather than eliminating it, he began a sales campaign to explain why green cards were a good thing. Sure they were a good thing -- for Shortall and friends, not for you and me, the average students.

The reason he gave for continuing the free-pass policy was that it was a "reward" for hard-working councillors (you know, those people that never turn up at meetings, so that they rarely get quorum), and it would encourage more people to get involved and do things. Really now! The fact that many members are apathetic indicates the plan doesn't work. Let's look at what really happens:

Members with enough enthusiasm are interested enough to do things without such "rewards". Because a member gets the pass irregardless of what he does or doesn't do for the F of S, an uninterested member really still has no reason for working any harder than before. Therefore there will be no change in the current council's actions. Worse still, people with totally no interest in working for the F of S, and who would normally not get involved, may get involved merely for the free passes, with no plans of doing anything for the F of S. Therefore the free-pass system will only cause a rise in apathy in the Fed council. But because the councillors become losers if they realize this (they'd have to pay to get into events), they are fully prepared to pull the wool over our eyes about the whole deal.

The Feds have never really impressed me with their policies and philosophies. But when they have the hypocrisy to behave the same way as the very organizations they criticize, I think something is definitely wrong.

For the record, MathSoc does not have a pass system; all MathSoc people pay to get into MathSoc events.

Faculty Curriculum Committee

It looked like a bleak winter ahead. The Mathematics Faculty Curriculum Committee had recommended a number of significant changes in B.Math. degree requirements in its report to Faculty Council. That august body made a few recommendations of its own and let it be known that they intended to accept the report at their December 16 meeting.

Mathsoc was in a turmoil. There were justifiable criticisms of several proposed changes, which would make it more difficult to earn a degree. Many people felt concern about the fact that, after the Curriculum Committee had spent a year formulating its report, the Faculty Council had made insertions at one meeting and intended to accept the report at the next. Others were worried that the meeting and its announcement were at times when students were preparing for or writing exams.

At the regular Mathsoc Council meeting December 2, a motion was passed, after considerable discussion, by a unanimous vote, to request that Faculty Council table the report until it was made a proper document and students had had a chance to provide input. Representations were made by council members and executive to the dean, associate deans, department heads, and other influential professors.

Finally, after more than a week of activity, a notice was received and posted by Mathsoc, to the effect that, in the spirit of goodwill to all, the Faculty Council had cancelled its December meeting.

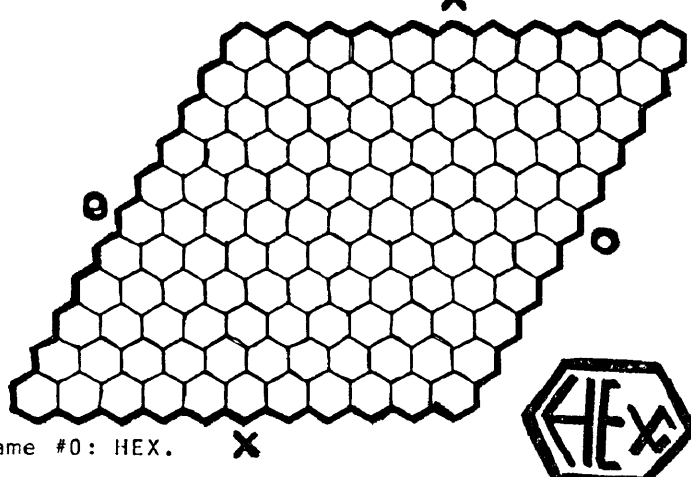
The fight goes on. We can only assume that most of you wish to graduate someday, but unless you help show it, the report will pass.

The following is the Curriculum Committee's proposed requirements for the B.Math. degree, which will be considered by the Faculty Council in their February meeting. Your comments are invited.

Announcing the debut of another neuro-toxic mathNEWS column:

{ GAME of the WEEK }

As part of the continuing effort of mathNEWS to play maximum havoc with Friday lectures we humbly (ha!) present, for your amusal (new word) a set (actually we are not sure of the information structure as we do not consider mathNEWS bounded by time sequence (it is instantaneously decodable (regarding issues as elementary (and they are)))) of vaguely (and not so vaguely) mathematical pencil and paper (pens 2) games.



Game #0: HEX.

Brief history: Invented 1942 by Danish mathematician and all-round interesting guy: Piet Hein (grooks, soma, super circles etc. etc.) at Niels Bohr's Institute for Theoretical Physics in Copenhagen when thinking about the 4-colour map theorem.

How to play: It is a game for two players who take it in turns to place their markers (X or O) in a previously empty hexagon. Object is to complete an unbroken chain of YOUR marked hexagons joining your sides. Corner hexagons are considered to be part of either side.

Reference: Martin Gardner's Scientific American Book of Mathematical Puzzles and Diversions.

	<u>Pass</u>	<u>General</u>	<u>Honours</u>	<u>Joint Honours</u>
Minimum Total Credits ¹	16	21	24	24
Minimum Math Credits	8	12	15	12
Minimum Elective Credits	6	6	6	6
Minimum Math Average ²	60% on 8 credits	60% on 12 credits	70% on 15 credits	70% on 12 credits
Complete Terms Required ³	0	2	4	4
Maximum Full Course Attempts (or equivalent) ⁴	22	27	30	30
Maximum Full Course Failures (or equivalent) ⁵	5	5	4	4

FOOTNOTES:

1. One (one half) credit is awarded for successful completion of an eight month or two term (four month or one term) course.
2. All Faculty and Departmental Courses required for a particular degree will be included in the Math Average. For Honours programs requiring more than 15 Math credits (e.g. Double Honours), all such credits will be included in the Math Average. For Honours programs which require fewer than 15 Math credits (e.g. Chartered Accountancy requires only 14 Math credits), only those required credits will be included in the Math Average.
3. A complete term is a term in which a student is registered for at least six half courses (or equivalent), two of which must be Math. Registration in the first term of a full course will not count as a course attempt unless the student subsequently completes the second half of the course.
4. A full (half) course attempt refers to a full (half) course registration not formally cancelled with the Registrar's Office before the end of the Course Change Period. The last day to DROP a course is 4 weeks from the beginning of lectures. The last day to ADD is 3 weeks from the beginning of lectures.
5. A full (half) course attempt not successfully completed constitutes a full (half) course failure.
6. If a full course is formally cancelled in the first term, after the DROP date, it will count as a half-course attempt (and a half-course failure).

...to page 6

