

Forty-Ninth Meeting

October 12, 1977

49th

The Minutes of the Executive Committee meeting held on Wednesday, October 12, 1977 at 2:40 p.m. in room 250 Allen Building.

Members Present: R. D. Connor, Chairman; Professors B. D. Macpherson, K. W. Stewart, K. (Mrs.) Subrahmaniam, P. Loewen, C. R. Platt, A. Olchowecki, J. Brewster, G. C. Robinson, H. W. Duckworth; Mr. D. Okrusko; G. Richardson, Secretary.

Visitor: Professor R. G. Woods

1. Approval of the Minutes of the 48th Meeting

The Minutes of the 48th meeting of the Executive Committee, held on August 4, 1977 were approved, Duckworth (Platt).

2. Matters Arising Therefrom

- (i) The Committee to be set up to study the faculty admissions policies had not yet been called but would be shortly.
- (ii) The Chairman announced that Dr. D. Young of the Computer Science Department had agreed to replace Dr. F. Kelly as Chairman of the Science Graduate Course Change Committee.
- (iii) The meeting between the Chairman and the Director of Operations & Maintenance was scheduled to take place later on in the week.

3. Communications

There were no communications.

8. Faculty Tenure Committee Compositions

As was stated in the U.M.F.A. agreement, the Dean of the Faculty is required to ask Faculty Council members what kind of tenure committee they would like him to set up for the hearing of those faculty members coming up for tenure consideration this fall. The Chairman said that he would suggest to Faculty Council the same kind of Committee as was established last year, i.e. faculty based nucleus committee. If Council agreed he would set up a pool of members and draw from them for the committees. He would announce the names of the members once the committees had been established.

4. Course Changes

The Chairman asked Dean Macpherson to speak to this item. Dean Macpherson explained that this year for the first time all course changes, even those of a purely editorial nature, had to go through Senate. This accounted for the volume of material now before the Executive. In order to make the task easier the changes had been divided into two groups, those considered major changes and those of a 'modification' type of change. The major changes would be forwarded to Senate Committee on Curriculum & Course Changes on the course change form, while the modifications would go forward in a memorandum.

A. Major Changes

- (i) Applied Mathematics: changes approved as outlined.
- (ii) Botany Department: changes approved as outlined.
- (iii) Computer Science: A rather long discussion resulted from the changes requested by this department. Questions were raised for which ready answers could not be supplied. In the end a motion was proposed Duckworth (Subrahmaniam) and carried unanimously that the material be referred back to the department with a covering letter listing the questions raised by the Executive. In order to discuss the reply from the department before the Faculty Council meeting, the Executive Committee agreed to hold a special meeting on Wednesday, October 19 at 1:00 p.m., just 1 hour and 40 minutes before the Faculty Council meeting. (The questions referred back to the Department are listed on the attached copy of the letter sent to Computer Science).
- (iv) Earth Sciences: changes approved as outlined.
- (v) Mathematics & Astronomy: the Committee agreed to come back to this department's changes later on in the meeting.
- (vi) Physics Department: changes approved as outlined.
- (vii) Statistics Department: changes approved as outlined.
- (viii) Chemistry Department: The change requested by Chemistry was

the result of changes made by the Faculty of Engineering to their own programs. It was now required by Engineering that their students take Chemistry in two stages. The full course 2.121 originally without a laboratory would now be split into two half courses, each with a laboratory; one in the student's first year and one in the second. The Electrical Engineering students in second year would be exempt from the 2nd half course so that Science would be losing ugsch's. The cost estimate by Chemistry for the new lab for the first half course was \approx \$26,000.00 in the first year, \$10,000.00 of which would be recurring. The second half course would require between \$12,000.00 - \$15,000.00 in operating funds in the following year. At this time only the first half of the split was being proposed. The second would be coming forward next year. The Chairman made it very clear that funds for this change would have to come from outside the Faculty; the Faculty could not support this move financially, however academically sound it was.

- (ix) The new Computer Science course described on page 9 of the course change material was not approved by the Executive because the departments of Computer Science and Statistics could not resolve the question of overlap. This course was deleted from the course change proposals which would be forwarded to Faculty Council and ultimately to Senate.

B. Modifications

- (i) Applied Mathematics - no disapproval.
- (ii) Botany Department - no disapproval.
- (iii) Chemistry Department - no disapproval.
- (iv) Computer Science - The Committee wanted clarification of the descriptions for 74.121 and 74.322. Course 121 said that credit could not be held in more than one course for 120, 121 and 123 whereas course 322 stated credit could not be held for more than 1 course for 123, 205 and the former 316 or

322. The Committee wanted to know why courses 120 and 121 were not included in 322. Dean Macpherson said that he would get this clarified. The Committee also wished to know if course 5.231 could be put into the department's Honours program description instead of 5.221; course 5.231 contained the students with the more complete background. Again Dean Macpherson said that he would contact the department and see if this could be done.

- (v) Earth Sciences - no disapproval.
- (vi) Mathematics & Astronomy - to be discussed later.
- (vii) Microbiology Department - no disapproval.
- (viii) Physics Department - no disapproval.
- (ix) Statistics Department - no disapproval.
- (x) Zoology Department - no disapproval.

The Committee now turned its attention to the Mathematics course changes. Before commencing discussion on the remedial course the Committee suggested a change in word order for the Mathematics Honours program that was being deleted; 'Honours Applied Mathematics Program' to be changed to 'Honours Mathematics (Applied) Program'.

Professor G. Woods, who was attending the meeting in order to discuss the Mathematics remedial course, addressed the Committee.

Professor Woods began by pointing out some of the reservations the Committee on Courses had regarding the 90 level remedial course and how the programs of departments and faculties other than their own could be seriously disrupted if substantial numbers of students had to take the 90 course and not the regular 139 course. He said that the diagnostic test given to first year students was criticized and arguments put forth stated that students could fail the test but still pass the first year course. Certain departments did not feel that the 90 level course being at a sub-university level should be given university credit; however he did note that the University of Winnipeg gave 6 credit hours to their remedial mathematics course. Faced with these and other reservations Dr. Woods said that the

Mathematics department wanted to suggest an alternative method of remedial work. A dual streamed 139 course with an additional hour of work required in the 'modified' stream was being proposed. Students would still be required to write the diagnostic test with those failing going into the augmented stream. Dr. Woods pointed out that at this point in time, only the department of Mathematics Executive Committee had considered this alternative.

In reply to what the costs of this would be, Dr. Woods said that he didn't think that it would be substantial because all that was really required was an additional hour. Several members said that they would like to see the calendar description of this proposal before they voted on it. It was suggested that before this was implemented other departments who rely on Mathematics for their programs should be consulted.

Dean Macpherson asked if the department had considered the mechanics of the proposals and the problems that would have to be faced should it be implemented. He pointed out such problems as timetabling the second stream, fitting in an extra hour into the students' programs, where, how and when the diagnostic test would be written, how course changes would be handled if students moved out of the augmented course into the regular course mid-way through the term, etc. He said that if the Executive approved the alternative these problems would have to be solved but in proposing the alternative he felt that the department should at least be aware and consider some of these.

The Chairman suggested that Dr. Woods, having heard the concerns of the Executive, take the proposal back to his department to consider the implications and return with a more complete proposal at the special meeting called earlier for October 19th.

The meeting adjourned at 5:39 p.m.

Continuation of the October 12, 1977 Executive Committee meeting,
held on October 19, 1977 at 1:00 p.m. in room 250 Allen Building.

Members Present: R. D. Connor, Chairman; Professors K. (Mrs.) Subrahmaniam,
P. Loewen, J. Brewster, G. C. Robinson, P. K. Isaac,
B. D. Macpherson, A. Olchowecki, K. W. Stewart,
H. W. Duckworth, C. R. Platt; Mr. D. Okrusko; Mr. G.
Richardson, Secretary.

Visitors: Professors G. Woods, H. Williams.

The Chairman asked Dean B. D. Macpherson to report on the Computer Science Department's reply to the questions raised by the Executive at the last meeting (a copy of the questions is attached).

1. The Department required a course which continues beyond and follows course 210, and this course would be the one. There was no overlap in content and if a student wished he could take and receive credit for all three courses i.e. 3YY, 444 and 454. In order to clarify this for students it was suggested that this be put into the calendar.
2. The Department has been under a certain amount of pressure from its instructors to split full courses at the 3rd and 4th year levels so that final examinations could be given at Christmas and an identifiable portion of the course could be concluded. The reason that the 2nd year level courses had not been split is that a new course on linear algebra (suggested by the Committee to Review the Mathematics Area) might shortly be introduced and this would have an effect on the 2nd year course. The Department had decided to wait until then before proposing any changes to its current 2nd year format.
- 3 & 4. Courses 411 and 412 were two topics courses given by the Department. Each course was composed of several parts and each of the parts was taught by an individual instructor. However, because of the rapid development in certain areas of Computer Science three of these parts have developed to such an extent that the Department feels that they should be split out of 411/412 and be offered under new course numbers. The three courses developed this way are 74.4XX, 4YY and 3XX. Course 3YY was developed in a similar manner. Course 4ZZ was a course specifically developed for the Engineers. Because the Engineers had expressed a desire to get into this area of computer

science the Department felt that they had better provide the course before Engineering decided to teach it themselves.

As for the resource implications, courses 3YY, 3XX, 4XX and 4XY were courses that were now being offered albeit under other headings. It was the intention that once these courses were split out with their own course numbers, the same instructors would be teaching them. It was felt by the Department that this would not result in any additional costs. The vacated portions of courses 411/412 would not be replaced, in fact courses 411/412 were going to be revamped so that they would be more in line with what they were originally conceived to be i.e. directed self-study courses.

As for the service course 4ZZ, Professor Williams stated that the Faculty of Engineering had agreed to set up and buy the necessary equipment for the labs. Because the Science faculty would be gaining additional ugsch's as a result of the course, it was hoped by Computer Science that they would be provided with additional special academic money so that they would be able to provide the instruction for the labs. This would be a small portion of the total cost of the labs though. The Chairman expressed surprise at the fact that Engineering had the funds available to provide lab space and equipment but he was assured by Professor Williams that this was the arrangement that Computer Science had with that Faculty.

5. The Department was reluctant to list their new courses in order of priority. In discussing this with them Dean Macpherson understood their priority to be the following: (this order was not opposed by the Department):

74.4XX)
4YY) most critical
4ZZ
3XX
3YY

Dean Macpherson stated that the Department had agreed to consider removing some of the older, less current courses that were not as desperately required as these new courses.

At this point in the meeting Professors Williams and Woods left and Professors Platt and Duckworth entered.

It was moved Macpherson (Robinson) that:

"all five new courses be accepted on the basis as presented viz. with no resource implications".

In the following discussion, the Chairman reiterated his surprise that the Faculty of Engineering had the funds and had agreed to supply space and equipment for the 4ZZ labs. He stated that there was no way in which the Faculty of Science could guarantee to provide the money required for these labs. Dean Isaac pointed out that even if the department's ugsch's increased because of the additional students generated by course 4ZZ, this wouldn't guarantee the department more special academic money. He said that the special academic money was not allocated solely on that basis. The Faculty in the past had taken into account such things as a department's overall ugsch change, not just the changes in one course within a department, and it had also to consider all the other departments in relation to each other. The Faculty could only distribute that amount of money which it was granted. If it had no more, it could not distribute more. It was pointed out again that the department had stated "Nil" for funds required for this course. They made no mention of funds being required for demonstrators.

Most members felt that the new courses should be approved on the basis of their presentation to this committee, i.e. 'no resource implications'. Dean Macpherson felt that although costs at this time were stated as 'Nil', this did not prevent the department from making a plea for additional funds several years hence. Dr. Duckworth felt that this was a point worth considering. By the Executive Committee stating that they would approve the courses because there were no costs required did not mean that the department could be held to no more funds in the future. He said that it was not right that this Executive Committee make this kind of policy for future Executive Committees to have to follow.

At this point the question was called for; the motion was

CARRIED
1 abstention
1 contrary

Dean Macpherson informed the Committee that they were to disregard all previous discussions regarding the Mathematics remedial course. The Department had changed their submission again to that which was being presented

now (material distributed). Dean Macpherson explained that the 90 level course is to remain the same, i.e. no credit, although the calendar description will be changed slightly. Course 139 will be modified to include a 3-hour tutorial instead of a 2-hour. Students must still write a proficiency test, and those who pass will not be required to take this extra hour; those who fail, will. All students must eventually pass the test before they can receive credit for 139. If not passed, the student would receive a grade of I (Incomplete) on their transcript. The test will be given periodically throughout the term.

Successful completion of 13.139 would therefore indicate not only that the student can handle the calculus material in 139, but also is prepared for the trigonometry used in conjunction with the 13.140 calculus material.

The Chairman suggested that for clarity the diagnostic test be referred to as the mathematics laboratory test. Students therefore would be required to pass both a lab test and a lecture test in order to gain credit for 139.

It was moved Brewster (Stewart) that

"the Committee accept the Mathematics proposal".

Unanimous

The meeting adjourned at 2:29 p.m.

Inter-Departmental Correspondence

DATE September 22, 1977TO Members of the Executive Committee of Science Faculty CouncilFROM G. Richardson, Secretary

SUBJECT:

The 49th meeting of the Executive Committee of Faculty Council has been called for October 12, 1977 at 2:40 p.m. in room 250 Allen Building.

AGENDA

1. Approval of the Minutes of the 48th meeting, August 4, 1977.
2. - Matters Arising therefrom:
 - (i) Committee set up to study the faculty admissions policies.
 - (ii) Dean's appointment of a replacement for Dr. F. M. Kelly as Chairman of the Faculty of Science Graduate Course Change Committee.
 - (iii) Dean's discussion with the Director of Operations & Maintenance regarding blackboard brushes.
3. Communications.
4. Faculty course changes (material will be sent to members).
5. Discussion of the Minutes of the Special Faculty Council meeting of June 29, 1977 on the Faculty's undergraduate enrolment and financial position.
6. Discussion of Dr. Jamieson's motion on changes to the major program (June 8, 1977 and August 4, 1977 meetings).
7. Consideration and discussion of the concerns expressed by Dr. McKee at the August 10, 1977 Faculty Council meeting regarding the direction which the University of Manitoba is headed and how closely this parallels that of the Universities in Great Britain. (August 10, 1977 Faculty Council minutes attached).
8. For Executive Committee's information, the form and composition of the Faculty's tenure committee.
9. Other business.

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