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UNIVERSITY OF NEW MEXICO

Faculty Constitution 1

Voting Faculty 11

Standing Committees 20

Faculty Meetings:

Faculty Minutes

 October 8, 1957 24

 November 12, 1957 30

 December 10, 1957 34

 January 14, 1958 38

 February 11, 1958 124

 March 11, 1958 128

 May 13, 1958 160

 May 27, 1958 232

 June 3, 1958 239

 1957 - 1958 301

UNIVERSITY OF NEW MEXICO

June 4, 1958

To: All Members of the Faculty
From: John N. Durrie, Secretary
Subject: Final Faculty Meeting

The final meeting of the Faculty will be held on Monday, June 9th, in Mitchell Hall 101, at 4:00 p.m.

The agenda will include the following items:

1. Recommendation of candidates for degrees.
2. Proposed revision of functions and composition of the Student Standards Committee -- Professor Seed for the Policy Committee.
3. Proposed amendment of the Tidal Wave Report -- Dean Wynn for the Board of Deans of the University College.
4. Recommendation of a Master of Science degree program in the teaching of science -- Vice-President Castetter for the Graduate Committee. (Statement was sent out with May 13th agenda.)

UNIVERSITY OF NEW MEXICO

Faculty Meeting

June 9, 1958

(Summarized Minutes)

The June 9, 1958, meeting of the University Faculty was called to order by President Popejoy at 4:05 p.m., with a quorum present.

Candidates for bachelor degrees in the College of Arts and Sciences were presented by Dean Wynn; in the College of Engineering by Dean Farris; in the College of Education by Dean Travelstead; in the College of Fine Arts by Dean Stein; in the College of Pharmacy by Dean Cataline; in the College of Business Administration by Dean Sorrell; in the College of Law by Dean Gausewitz. Candidates for masters' and doctors' degrees in the Graduate School were presented by Dean Castetter. With several minor changes in the mimeographed list, the faculty voted to recommend the candidates to the Regents for the awarding of the respective degrees.

On behalf of the Policy Committee, Professor Seed recommended that the functions of the Student Standards Committee be changed to conform with amendment 5 of the Constitution of the Associated Students, approved by the Faculty at the May 27 meeting. With reference to the same committee, he further recommended that Professor Aufhauser be substituted for Professor Zintz for 1958-59 in order to conform to the formula which calls for two men and two women on the committee. Both recommendations were approved.

Dean Wynn, on behalf of the Board of Deans of the University College, proposed an amendment to the Tidal Wave Report with respect to the granting of a certificate of completion for work in the University College. Approved.

Discussion of the proposed master's degree program in the teaching of science was resumed, and Dean Castetter moved its acceptance with the incorporation of several revisions to the original proposal. (The original proposal was sent to the Faculty with the May 13th agenda and a dittoed sheet of the revisions was distributed at the June 9th meeting.) The revisions were as follows:

1. For 1 (b), page 2, of original proposal, substitute the following:

. . . completed not less than 24 hours in one of the following fields: astronomy, biology, chemistry, geology, mathematics, or physics. (Students presenting an inadequate amount of science or mathematics shall be declared to have a deficiency which shall be removed prior to entrance into the program in the manner prescribed by the adviser.) and

- 2. For all of items 5 and 6, page 3, substitute the following:

Not less than 24 semester hours of the course work for the degree shall be in courses in astronomy, biology, chemistry, geology, mathematics, or physics. All of the 24 hours shall be specifically approved by the student's individual adviser and by the advisory committee for the program (see item 8 below). Of the 24 hours, at least 18 semester hours shall be in courses numbered 100 or above for which graduate credit has been approved. Six semester hours may be in sophomore courses, numbered 50-99.

The departments of chemistry, physics, and mathematics will offer courses especially designed for this program. These courses will carry graduate credit but will not have prerequisites.

- 3. For item 10, page 4, substitute the following:

It is to be clearly understood that this is an experimental plan to run for a maximum period of three years beginning with the 1959-60 academic year. If, at the end of this three-year experimental period, it seems advisable to continue the program, the special committee originally appointed to work on the degree, together with the Graduate Committee, shall re-evaluate the program. These committees jointly shall then recommend to the General Faculty its continuance together with a definite statement of policy regarding the bases for establishing a permanent degree of Master of Science in the Teaching of Science.

After Dean Wynn, in the absence of Dr. Riebsomer, spoke to the notion, Dr. Regener proposed as an amendment that the name of the degree be changed to Master of Education in Science. This amendment was approved by the Faculty. After further discussion there was a call for the previous question, and Dean Castetter's notion, as amended, was then put to vote and approved.

The meeting was adjourned at 5:10 p.m.

John N. Durrie, Secretary

FACULTY MEETING

Shouldn't you pass the June 9, 1958
like it coming up in

The June 9, 1958, meeting of the University Faculty was called to order by President Popejoy at 4:05 p. m. with a quorum present.

PRESIDENT POPEJOY If the Faculty will come to order, we will proceed with the items on the agenda. The first item has to do with the recommendation of candidates for degrees. The first college to report in this respect is Dean Wynn of the College of Arts and Sciences.

Candidates
for Degrees

DEAN WYNN Mr. President, it is my pleasure to present to you and to the General Faculty the list of candidates who have completed all the requirements for degrees in the College of Arts and Sciences. The candidates for degrees are listed on pages 1 through 5. Upon recommendation of the College of Arts and Sciences Faculty, I move that the names of the persons on this list with exceptions to be noted later be certified to the Regents for receipt of their degrees.

Will you please strike the name of Rosemary Heldt Udeil on page 3. Certain grades in correspondence courses for her which were supposed to come in did not arrive.

Also, action by the General Faculty on one other case is necessary. That is the case of James W. Leasure who has petitioned for the waiving of two hours of the senior residence requirement. Mr. Leasure transferred to the University of New Mexico with 40 hours. He took 28 hours after attaining his senior status. He has completed 80 hours at this University with 226 grade points. He earned four dividends on his work at the University of New Mexico and I suspect that he erroneously thought his dividends counted on his senior residence requirements. Mr. Leasure won a Woodrow Wilson Fellowship and has been accepted at Princeton University for the study of Economics beginning next fall. I hope you will do him the kindness of certifying him.

Mr. President, I move the approval of the name of Mr. Leasure and of the other names on the list.

PROFESSOR VERNON I second the motion.

DEAN SORRELL Dean Wynn, on this Udell, you say the name should be stricken because her grades in correspondence work haven't come through yet?

WYNN That is right.

FACULTY MEETING

June 9, 1958

The June 9, 1958, meeting of the University Faculty was called to order by President Popejoy at 4:05 p. m. with a quorum present.

PRESIDENT POPEJOY: If the Faculty will come to order, we will proceed with the items on the agenda. The first item has to do with the recommendation of candidates for degrees. The first college to report in this respect is Dean Wynn of the College of Arts and Sciences.

DEAN WYNN: Mr. President, it is my pleasure to present to you and to the General Faculty the list of candidates who have completed all the requirements for degrees in the College of Arts and Sciences. The candidates for degrees are listed on pages 1 through 5. Upon recommendation of the College of Arts and Sciences Faculty, I move that the names of the persons on this list with exceptions to be noted later be certified to the Regents for receipt of their degrees.

Will you please strike the name of Rosemary Heidt Ubell on page 3. Certain grades in correspondence courses for her which were supposed to come in did not arrive.

Also, action by the General Faculty on one other case is necessary. That is the case of James W. Lassar who has petitioned for the waiving of two hours of the senior residence requirement. Mr. Lassar transferred to the University of New Mexico with 40 hours. He took 28 hours after attaining his senior status. He has completed 80 hours at this University with 228 grade points. He earned four dividends on his work at the University of New Mexico and I suspect that he erroneously thought his dividends counted on his senior residence requirements. Mr. Lassar won a Woodrow Wilson Fellowship and has been accepted at Princeton University for the study of Economics beginning next fall. I hope you will do him the kindness of certifying him.

Mr. President, I move the approval of the name of Mr. Lassar and of the other names on the list.

PROFESSOR VERNON: I second the motion.

DEAN SORRELL: Dean Wynn, on this Ubell, you say the name should be stricken because her grades in correspondence work haven't come through yet?

WYNN: That is right.

MEMBER: Mr. President, suppose the grades come in before graduation. Shouldn't you pass this on condition? I have a case just like it coming up in our college.

WYNN: I was just informed by Miss Weishaupt that if we couldn't get it in order this afternoon we had better not pass it. That is correct.

SORRELL: I was going to move in my case that we pass our candidate conditionally. It may come in between now and Tuesday night.

WYNN: I will refer it to the Registrar.

POPEJOY: Mr. MacGregor?

MR. MACGREGOR: We do have to have some deadline. Usually in the past it was done in the way it has been suggested here. If they don't make the grade by the time of the Faculty Meeting, they don't pass it. I see no objection, however, to a conditional passing on the chance this grade may come in before Commencement.

POPEJOY: What do you do about the printed program?

MACGREGOR: It doesn't show on the printed program, of course. But otherwise the student will have to wait until the following June to get this degree.

CLARK: Then I move that this name be passed conditionally.

POPEJOY: This is an amendment?

MEMBER: Second the motion.

POPEJOY: Any questions on the amendment? All in favor of the amendment indicate by saying "aye". Opposed? The motion is carried.

All in favor of the original motion as amended indicate by saying "aye". Opposed? It is carried.

MR. DURRIE: I want to get it clear about the program.

POPEJOY: The fact that the program goes to press does not have anything to do with whether they graduate. Their names may not appear on the program, but still they may graduate under this motion.

DURRIE: All right, I just wanted it clear.

MEMBER Mr. President, we haven't voted on Mr. Leasure's case, have we?

WYNN Yes, I included that in the whole motion.

POPEJOY I understood this was in Dean Wynn's motion.

WYNN That is correct.

POPEJOY The next is the list of candidates from the College of Engineering by Dean Farris.

DEAN FARRIS Mr. Chairman and members of the Faculty, you will find on the list beginning on page 5 and ending on page 7, the candidates for degree from the College of Engineering. They have all been approved for their respective degrees by the Engineering Faculty, and I should like to move that they be recommended to the Regents for their respective degrees.

MEMBER Second.

POPEJOY All in favor of the motion made by Dean Farris indicate by saying "aye". Opposed? The motion is carried.

The list of candidates from the College of Education will be presented by Dean Travelstead.

DEAN TRAVELSTEAD Starting on page 7 and continuing through page 11 are listed the names of the persons who have completed the requirements for the various degrees indicated. Our Faculty has approved these as listed, and I recommend to the General Faculty that they recommend to the Board of Regents that these people receive the degrees indicated.

POPEJOY Incidentally, I think it should be stated to the Faculty that all these motions will be made, as has been done so far, as recommendations to the Board of Regents.

PROFESSOR HEIMERICH I second the motion.

POPEJOY All in favor of the motion by Dean Travelstead indicate by saying "aye". Opposed? The motion is carried.

The candidates for the College of Fine Arts will be presented by Dean Stein.

DEAN STEIN Mr. President, and Members of the Faculty, the candidates for degrees in the College of Fine Arts are listed on pages 11 and 12, under the section entitled Fine Arts. All of these candidates have been approved by the Faculty of the College of Fine Arts for recommendation for

MEMBER Mr. President, we haven't voted on Mr. Leasure's case, have we?

WYNN Yes, I included that in the whole motion.

POPEJOY I understood this was in Dean Wynn's motion.

WYNN That is correct.

POPEJOY The next is the list of candidates from the College of Engineering by Dean Farris.

DEAN FARRIS Mr. Chairman and members of the Faculty, you will find on the list beginning on page 5 and ending on page 7, the candidates for degree from the College of Engineering. They have all been approved for their respective degrees by the Engineering Faculty, and I should like to move that they be recommended to the Regents for their respective degrees.

MEMBER Second.

POPEJOY All in favor of the motion made by Dean Farris indicate by saying "aye". Opposed? The motion is carried.

The list of candidates from the College of Education will be presented by Dean Travelstead.

DEAN TRAVELSTEAD Starting on page 7 and continuing through page 11 are listed the names of the persons who have completed the requirements for the various degrees indicated. Our Faculty has approved these as listed, and I recommend to the General Faculty that they recommend to the Board of Regents that these people receive the degrees indicated.

POPEJOY Incidentally, I think it should be stated to the Faculty that all these motions will be made, as has been done so far, as recommendations to the Board of Regents.

PROFESSOR HEIMERICH I second the motion.

POPEJOY All in favor of the motion by Dean Travelstead indicate by saying "aye". Opposed? The motion is carried.

The candidates for the College of Fine Arts will be presented by Dean Stein.

DEAN STEIN Mr. President, and Members of the Faculty, the candidates for degrees in the College of Fine Arts are listed on pages 11 and 12, under the section entitled Fine Arts. All of these candidates have been approved by the Faculty of the College of Fine Arts for recommendation for

MEMBER Mr. President, we haven't voted on Mr. Gausewitz's case, have we?

WYNN Yes, I included that in the whole motion.

POPEJOY I understood this was in Dean Wynn's motion.

WYNN That is correct.

POPEJOY The next is the list of candidates from the College of Engineering by Dean Farris.

DEAN FARRIS Mr. Chairman and members of the Faculty, you will find on the list beginning on page 5 and ending on page 7, the candidates for degrees from the College of Engineering. They have all been approved for their respective degrees by the Engineering Faculty, and I should like to move that they be recommended to the regents for their respective degrees.

MEMBER Second.

POPEJOY All in favor of the motion made by Dean Farris indicate by saying "aye". Opposed? The motion is carried.

The list of candidates from the College of Education will be presented by Dean Travelstead.

DEAN TRAVELSTEAD Starting on page 7 and continuing through page 11 are listed the names of the persons who have completed the requirements for the various degrees indicated. Our Faculty has approved these as listed, and I recommend to the General Faculty that they recommend to the Board of Regents that these people receive the degrees indicated.

POPEJOY Incidentally, I think it should be stated to the Faculty that all these motions will be made, as has been done so far, as recommendations to the Board of Regents.

PROFESSOR HEIMLICH I second the motion.

POPEJOY All in favor of the motion by Dean Travelstead indicate by saying "aye". Opposed? The motion is carried.

The candidates for the College of Fine Arts will be presented by Dean Stein.

DEAN STEIN Mr. President, and Members of the Faculty, the candidates for degrees in the College of Fine Arts are listed on pages 11 and 12, under the section entitled Fine Arts. All of these candidates have been approved by the Faculty of the College of Fine Arts for recommendation for

degrees and I move that the names of these candidates so listed be recommended by this Faculty to the Board of Regents.

PROFESSOR WELLOCK Second the motion.

POPEJOY All in favor of the motion indicate by saying "aye". Opposed? The motion is carried.

The list of candidates for the College of Pharmacy will be presented by Dean Cataline. Is Dean Cataline here?

DEAN CATALINE Mr. President, the names of those who have completed the degree of Bachelor of Science in Pharmacy are listed on page 12. They have been approved by the College of Pharmacy Faculty and I move that this Faculty recommend them for their respective degrees to the Board of Regents.

MEMBER Second the motion.

POPEJOY All in favor of the motion by Dean Cataline indicate by saying "aye". Opposed? The motion is carried.

The list of candidates of the College of Business Administration will be presented by Dean Sorrell.

DEAN SORRELL On page 13 the name of Pete Anthony Gonzales is the student for whom we are awaiting the results of a correspondence course and his name should be on here conditionally. If it comes in, he should be recommended.

Mr. President, all the rest of the names here have been approved by the Faculty of the College of Business Administration, and I move that they be recommended to the Board of Regents for the degree of Bachelor of Business Administration.

POPEJOY You have heard the motion with the qualification.

FARRIS Second the motion.

POPEJOY Any questions? All in favor of the motion indicate by saying "aye". Opposed? The motion is carried.

The list of candidates for the College of Law will be presented by Dean Gausewitz.

DEAN GAUSEWITZ Mr. President, the candidates from the College of Law are listed on top of page 14. All of these have completed all of the requirements for the degree and have been approved by the Faculty of the College of Law, and I recommend they be recommended to the Board of Regents.

degrees and I move that the names of these candidates as listed be recommended by this faculty to the Board of Regents.

PROFESSOR WILCOX Second the motion.

POPEJOY All in favor of the motion indicate by saying "aye". Opposed? The motion is carried.

The list of candidates for the College of Pharmacy will be presented by Dean Cataline. Is Dean Cataline here?

DEAN CATALINE Mr. President, the names of those who have completed the degree of Bachelor of Science in Pharmacy are listed on page 12. They have been approved by the College of Pharmacy Faculty and I move that this Faculty recommend them for their respective degrees to the Board of Regents.

MEMBER Second the motion.

POPEJOY All in favor of the motion by Dean Cataline indicate by saying "aye". Opposed? The motion is carried.

The list of candidates of the College of Business Administration will be presented by Dean Sorrell.

DEAN SORRELL On page 13 the name of Pete Anthony Gonzalez is the student for whom we are awaiting the results of a correspondence course and his name should be on here conditionally. If it comes in, he should be recommended.

Mr. President, all the rest of the names have been approved by the Faculty of the College of Business Administration, and I move that they be recommended to the Board of Regents for the degree of Bachelor of Business Administration.

POPEJOY You have heard the motion with the qualification.

FARRIS Second the motion.

POPEJOY Any questions? All in favor of the motion indicate by saying "aye". Opposed? The motion is carried.

The list of candidates for the College of Law will be presented by Dean Gausewitz.

DEAN GAUSEWITZ Mr. President, the candidates from the College of Law are listed on top of page 14. All of these have completed all of the requirements for the degree and have been approved by the Faculty of the College of Law, and I recommend they be recommended to the Board of Regents.

CLARK Second the motion.

POPEJOY Question? All in favor of the motion indicate by saying "aye". Opposed? Carried.

The candidates for the Graduate School will be presented by Dean Castetter.

DEAN CASTETTER Beginning on page 14 is the list of candidates for graduate degrees. On behalf of the Graduate Committee I should like to move that the candidates here listed be recommended to the Board of Regents of the University for the awarding of the appropriate degrees.

SEVERAL MEMBERS Second the motion.

POPEJOY Question? The faculty will remember that in another meeting you approved the granting of honorary degrees which would normally be included in the minutes for this particular section.

Are you ready for the question?

MEMBER Question.

POPEJOY All in favor of the motion as made by Dean Castetter indicate by saying "aye". Opposed? Motion is carried.

The next item on the agenda is a proposed revision of functions and composition of the Student Standards Committee. Professor Seed, Chairman of the Policy Committee.

Revision of Functions and Composition of Student Standards Committee

PROFESSOR SEED Mr. Chairman and Members of the Faculty, actually I have two motions to present to the Faculty. At the last Faculty meeting this Faculty approved certain amendments to the Student's Constitution. Amendment 5 had to do with a statement of the functions of the Student Standards Committee, and since that Committee is a mixed committee of students and faculty it seems advisable that we modify our by-law on the same subject to conform to the Student Constitution provision. I, therefore, move on behalf of the Policy Committee that the Faculty approve this statement, this substituted statement of functions, for the Student Standards Committee:

"The Student Standards Committee shall be the highest Court of Appeal for matters involving the individual infringement of laws of the Student Community. It may also have original jurisdiction over any such matter referred to it. Any student who feels he has been unjustly dealt with by an inferior judicial body or official of the University has a right of appeal to this Committee. Decisions of the Committee

CLARK Second the motion.
 POPEJOY Question? All in favor of the motion indicate by saying "aye". Opposed? Carried.
 The candidates for the Graduate School will be presented by Dean Castetter.
 DEAN CASTETTER Beginning on page 14 is the list of candidates for graduate degrees. On behalf of the Graduate Committee I should like to move that the candidates here listed be recommended to the Board of Regents of the University for the awarding of the appropriate degrees.

SEVERAL MEMBERS Second the motion.
 POPEJOY Question? The faculty will remember that in another meeting you approved the granting of honorary degrees which would normally be included in the minutes for this particular section.

Are you ready for the questions?
 MEMBER Question.
 POPEJOY All in favor of the motion as made by Dean Castetter indicate by saying "aye". Opposed? Motion is carried.

The next item on the agenda is a proposed revision of functions and composition of the Student Standards Committee. Professor Seed, Chairman of the Policy Committee.
 PROFESSOR SEED Mr. Chairman and Members of the Faculty, actually I have two motions to present to the Faculty. At the last Faculty meeting this Faculty approved certain amendments to the Student's Constitution. Amendment 3 had to do with a statement of the functions of the Student Standards Committee, and since that Committee is a mixed committee of students and faculty it seems advisable that we modify our law on the same subject to conform to the Student Constitution provision. I, therefore, move on behalf of the Policy Committee that the Faculty approve this statement, this substituted statement of functions, for the Student Standards Committee:
 "The Student Standards Committee shall be the highest Court of Appeal for matters involving the individual interpretation of laws of the Student Community. It may also have original jurisdiction over any such matter referred to it. Any student who feels he has been unjustly dealt with by an inferior judicial body or official of the University has a right of appeal to this Committee. Decisions of the Committee

may be appealed only to the President of the University. In the event of the failure of the Committee to reach a decision the case shall be certified to the President of the University for adjudication."

THE PRESIDENT Is there a second?

VERNON I second the motion.

POPEJOY Any question? All in favor of the motion indicate by saying "aye". Opposed? The motion is carried.

SEED I have another motion with regard to the same Committee. Since the nominations were made to the Faculty and approved by it for membership; that is, Faculty membership on the Student Standards Committee, Dean Clauve called our attention to the fact that it has been customary to have two men and two women from the Faculty represent the Faculty on that Committee. We did not conform to that formula but have named thereto three men and one woman. I would like to move the Faculty to substitute for Professor Zintz on that Committee for the coming year Professor Aufhauser of the College of Nursing.

POPEJOY Is there a second?

DEAN CLAUVE Second the motion.

POPEJOY You have heard the motion. Any question? All in favor indicate by saying "aye". Opposed? It is carried.

The next item on the agenda is a proposed amendment of the Tidal Wave Report. Dean Wynn.

DEAN WYNN Mr. President, the University College, as the Faculty probably knows, operates under a kind of charter dated May 17, 1956, which is entitled, "The Report of the Tidal Wave Committee". Mr. Huber, as Director of the University College, raised the question in a meeting of the Board of Deans regarding the granting of the University College certificate, and the slight amendment which has been put before you is designed mainly to keep the University of New Mexico from issuing the University College certificate to students who haven't ever really been in the University College and to put a kind of residence requirement on that certificate just as we do on the degree. On behalf of the Board of Deans of the University College, Mr. President, I move the amendment.

Amendment of Tidal Wave Report University College Certificate

MR. HUBER Second.

POPEJOY Question.

In the event of the failure of the Committee to reach a decision the case shall be carried to the President of the University for adjudication.

THE PRESIDENT Is there a second?

VERNON I second the motion.

POPEJOY Any questions? All in favor of the motion indicate by saying "aye". Opposed? The motion is carried.

SEED I have another motion with regard to the same Committee. Since the nominations were made to the Faculty and approved by it for membership; that is, Faculty members on the Student Standards Committee, Dean Clause called our attention to the fact that it has been customary to have two men and two women from the Faculty represent the Faculty on that Committee. We did not conform to that formula but have named three men and one woman. I would like to have the Faculty to substitute for Professor Eitz on that Committee for the coming year Professor Anderson of the College of Nursing.

POPEJOY Is there a second?

DEAN CLAUSE Second the motion.

POPEJOY You have heard the motion. Any questions? All in favor indicate by saying "aye". Opposed? It is carried.

The next item on the agenda is a proposed amendment of the Tidal Wave report. Dean Wynn.

DEAN WYNN Mr. President, the University College, as the Faculty probably knows, operates under a kind of charter dated May 17, 1956, which is entitled "The report of the Tidal Wave Committee". Mr. Huber, as Director of the University College, raised the question in a meeting of the Board of Trustees regarding the granting of the University College certificate, and the slight amendment which has been put before you is designed mainly to keep the University of New Mexico from issuing the University College certificate to students who haven't ever really been in the University College and to put a kind of residence requirement on that certificate. Just as we do on the degree. On behalf of the Board of Trustees of the University College, Mr. President, I move the amendment.

MR. HUBER Second.

POPEJOY Question.

PROFESSOR HAAS Dean Wynn, does this imply if a student gets a certificate from the University College after he has transferred out of the University College for 30 hours and gone to another college for 30 hours that he can have his certificate for the 30 hours?

WYNN He can if he desires it, because this is what has pertained under the old General College setup. The certificate was issued to any person who could show 60 hours of passing work.

POPEJOY Question. All in favor of the motion made by Dean Wynn concerning the University College indicate by saying "aye". Opposed? The motion is carried.

The next item on the agenda is a recommendation for the Master of Science Degree in the Teaching of Science presented by Vice-President Castetter.

CASSETTER Mr. President, I should like to reintroduce the motion which was considered by the Faculty at its last meeting, the motion for the establishing of a Masters Degree in the Teaching of Science. Now, this motion involves a revision which would include the changes set forth in the mimeographed statement which is in your hands. If there is anyone who doesn't have a copy, I think Mr. Durrie has other copies of it here. These are changes to go with the original motion. I have talked to all members of the Graduate Committee on the telephone about these amendments or modifications which are to be presented in addition to the original motion. All members of the Graduate Committee, except one, were in favor of these changes. Therefore, on behalf of the Graduate Committee I should like to move that the original proposal for the Master of Science Degree in the Teaching of Science embodying the changes set forth in this mimeographed sheet be approved by the General Faculty.

see p. 282

M. S. Degree in Teaching of Science

DEAN TRAVELSTEAD Second the motion.

DEAN WYNN Mr. President, I am acting today in the place of Professor Riebsomer, the Chairman of the Committee, who devised the plan for the Master of Science Degree in the Teaching of Science.

Dr. Riebsomer is absent from the city, for a very good purpose, I might add. He has gone to White Sulphur Springs, West Virginia, to receive as one of six in the whole United States an award of \$1,000.00 given by the Manufacturing Chemists Association, given to those six people in chemistry in the United States who are deemed to have made the greatest contribution to undergraduate teaching in chemistry. Unfortunately, he had to be absent at this time; and I am taking his

ROBERTSON WANTS Dean Wynn, does this imply if a student has a certificate from the University College after he has transferred out of the University College for 30 hours and goes to another college for 30 hours that he can have his certificate for the 30 hours?

Wynn: We can't be dogmatic about it, because this is what has happened under the old General College setup. The certificate was issued to any person who could show 60 hours of passing work.

ROBERTSON: Question. All in favor of the motion made by Dean Wynn concerning the University College indicate by saying "aye". Opposed? The motion is carried.

The next item on the agenda is a recommendation for the award of Science Degree in the Teaching of Science presented by Vice-President Castetter.

CASTETTER, Mr. President, I should like to reintroduce the motion which was considered by the Faculty at its last meeting. The motion for the establishing of a Masters Degree in the Teaching of Science. Now, this motion involves a revision which would include the changes set forth in the attached statement which is in your hands. If there is anyone who doesn't have a copy, I think Mr. Durkin has other copies of it here. These are changes to go with the original motion. I have talked to all members of the Graduate Committee on the telephone about these amendments or modifications which are to be presented in addition to the original motion. All members of the Graduate Committee, except one, were in favor of these changes. Therefore, on behalf of the Graduate Committee I should like to move that the original proposal for the award of Science Degree in the Teaching of Science be approved by the General Faculty.

DEAN LAVERSTAD: Second the motion.

DEAN WYNN, Mr. President, I am acting today in the place of Professor Anderson, the Chairman of the Committee, who developed the plan for the award of Science Degree in the Teaching of Science.

Mr. Anderson is absent from the city for a very good reason. I might add, he has gone to White Sulphur Springs, West Virginia, to receive one of six in the whole United States an award of \$1,000.00 given by the Manufacturing Chemists Association, given to those six people in chemistry in the United States who are deemed to have made the greatest contribution to undergraduate teaching in chemistry. Unfortunately, he had to be absent at this time; and I am taking his

place because his committee consisted largely of faculty members, chairmen of departments, in the College of Arts and Sciences; and I might add that everything I say and everything I do today has the full approval of Dr. Riebsomer.

I want to discuss the origins of this proposal because I have an uncomfortable feeling that the proponents of this plan never really had their inning. The opponents were vocal, and the proponents presented their case rather as an answer to the opposition rather than as an original pleading, so to speak.

The whole thing goes back to the concern of Professor Riebsomer and Professor E. L. Martin of the Chemistry Department about the condition of science teaching in the high schools, and particularly the high schools of New Mexico. This goes all the way back to 1950, long before Sputnik. About 1950 Dr. Riebsomer and Dr. Martin became distressed because the number of students majoring in chemistry was small, not only in the department here but throughout the nation. They asked themselves what they could do in New Mexico to increase the interest of students in the sciences and engineering, and particularly in the field of chemistry. They attended meetings of the NMEA. They have visited many high schools. They found laboratory equipment in the high schools very poorly designed. They found an amazing lack of equipment and supplies. They found a great lack of time on the part of teachers to do the job well.

The one outstanding difficulty which impressed them was the feeling that the teachers, particularly the younger teachers, had not had opportunity in their undergraduate work to learn the material which they needed to perform their duties as high school teachers adequately. The common pattern, they say, was teachers with a standard B. S. in biology confronted with teaching general science or chemistry or physics or mathematics, and these latter jobs with little or no formal training. These people pointed out that there was no practical manner in which they could take the courses which they really needed to do their work. They could not take courses for graduate credit in chemistry, physics, or mathematics, because there were so many prerequisites that the cost in time, effort, and money made it prohibitive. Furthermore, graduate courses in the sciences were generally unavailable at summer sessions, particularly at this institution.

In 1953-54 Dr. Riebsomer and Dr. Martin made many visits to high schools, mostly at their own expense, and they wrote a series of six articles which appeared in the New Mexico School Review between late in 1956 and early in 1957, setting forth the ills of science teaching in the New Mexico high schools and proposing some remedies.

Among the remedies they proposed was some kind of program

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whereby the high school science teacher could somehow get refreshing or original instruction, in many cases in the subject matter which he was actually having to teach in high school. The combination of this concern of these men and the dramatic launching of Sputnik last year brought our attention forcibly to the National Science Foundation grants for various kind of institutes for this purpose. The National Science Foundation gives summer institute grants for teachers of mathematics and science. The University of New Mexico has conducted some of those -- two summers, I believe -- in physics. We are entering upon a third summer of a summer institute in radiation biology given by the Biology Department. But these are notably stop-gap programs or short-range programs. The great program of the National Science Foundation in this respect is the Academic Year Institute, 19 of which will be given throughout the country, beginning in the fall of 1958-59. These programs, supported by the National Science Foundation for the Academic Year Institutes, are all, practically all, administered in Colleges of Education. The Vice-President of the University saw that the National Science Foundation grant depended upon cooperation between two colleges. Two colleges were involved, and Dr. Castetter took the initiative. He discussed this with me and with Dean Travelstead, and a committee was appointed to work on a proposal for such a degree, with the idea of applying in 1959-60 for a National Science Foundation grant. Their deadline for a grant for 1959-60 is September 1, 1958. They work more than a year ahead of the actual grant. Dr. Riebsomer was appointed chairman of that committee and was asked to serve as chairman of the committee by Dr. Castetter; and that committee consisted of five science department chairmen, those which were the most involved, and two representatives from the College of Education, -- Dean Travelstead himself, and Professor Ivins in Secondary Education. I asked to be left off this committee since the committee already contained five A & S College members. I thought that was sufficient. I was very happy with the proposal that came from the Committee of five A & S College science department chairmen and two members of the College of Education including the dean and the head of the Department of Secondary Education.

I was happy with the proposals of this Committee for the following reasons:

1. The excellent cooperation of the College of Education on an education degree with 24 hours of subject matter courses in it.
2. I was happy with it for a second reason, which was the apparent recognition by the science departments that some breakup of the log-jam of prerequisites in science courses was in order.

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that point. I believe sincerely that any man who is reason-
 ably intelligent in whatever his undergraduate training work
 can enter a graduate school in the humanities or social sciences--
 and I am not running my own field down because this is just
 the way things are -- I believe any reasonably industrious and
 intelligent student can enter a graduate school in the human-
 ities and social sciences and pretty well hold his own, what-
 ever his undergraduate background in the specialties has been.
 But this simply is not true in science, and it is because of
 this log-jam of prerequisites in physics, mathematics, and
 chemistry particularly that many high school teachers deny
 themselves the opportunity of getting better training in their
 subject-matter fields. This is why they almost invariably
 upon returning to graduate school, if they return, go into
 educational administration and fields of that sort. The
 problem of prerequisites in order to be able to take what
 is actually needed in good solid subject matter for good
 teaching in the high schools, is too much for them.

3. A third reason I like very much the proposals of this
 committee is because this represented to me a most promising
 beginning in what would be one of the most useful things a
 state university could do today, and I mean a beginning in
 the re-thinking on the whole problem of teacher training, which
 certainly is partially the problem, on subject matter, and the
 subject matter departments have lost hold in this area mainly
 through their own fault, and through lack of attention to this
 problem. I was delighted when the five science departments
 appeared to be in reasonable agreement on this proposal and
 when the Graduate Committee passed it and it was brought here
 to this Faculty. Not a little of my gratification had to do
 with the fact that I knew if the Faculty passed it we could
 propose to the National Science Foundation that we get support
 for an Academic Year Institute here in 1960. And, incident-
 ally, if we put this off until fall and do not pass it today,
 the earliest we could start an Academic Year Institute here
 would be 1960-61, two years from this date, which would be
 exactly four years behind North Carolina, Texas, and Ohio,
 and many other institutions who already have two years of this
 behind them.

Now, as to the changes in the original proposal, Mr. Durrie
 has copies of the previous proposal which was introduced two
 faculty meetings back, and you can take them and the dittoed
 sheet which was handed out today and find your way very clearly
 through this from here on out. If you need a copy of the
 original proposal, please hold up your hand.

Just a word about what lies behind the introduction of
 these revisions. These revisions were agreed upon by Dr.
 Castetter, Professor Riebsomer, Dean Travelstead and me for
 the first round; and in the past few days I have assumed Dr.

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 Riebsomer, Professor Riebsomer, Dean Travelstead and me for
 the first time; and in the past few days I have assumed Dr.

Riebsomer's responsibility in his absence and have secured
 the permission of the members of his committee from the A & S
 College to make these changes. Dean Travelstead has secured
 the permission of himself and the other members from the
 College of Education on the committee; and the Graduate
 Committee has recommended these changes also, although not
 unanimously, I believe. These changes were recommended out
 of respect for the rather deep feelings among the opposition
 on the proposal.

I shall now outline what I think are the opposition's
 major objections to the original proposal and try to show how
 these changes meet those objections and go as far as any
 reasonable person would expect.

The first change has to do with Item 1 (b), Page 2 of the
 original proposal. The objection was the vagueness of the
 proposal and perhaps the objection was justified. We recommend
 now that this item read: "A student entering the program
 shall have completed not less than 24 hours in one of the
 following fields: astronomy, biology, chemistry, geology,
 mathematics or physics."

The proposal said before that the person should have the
 normal college major. This defines it a lot more closely,
 requiring 24 hours in one of the sciences mentioned and there
 can be no quibbling about that. Twenty-four hours means
 twenty-four hours, in one of the following fields. The state-
 ment about deficiency is really unchanged.

The second change relates to Items 5 and 6, Page 3 of the
 original proposal and would substitute for those two items
 in their entirety the two brief paragraphs under Item 2 on
 the single sheet, the new statement of which would read as
 follows: "Not less than 24 semester hours of the course
 work for the degree shall be in courses in astronomy, biol-
 ogy, chemistry, geology, mathematics, or physics. All of
 the 24 hours shall be specifically approved by the student's
 individual adviser and by the advisory committee for the pro-
 gram. Of the 24 hours, at least 18 semester hours shall be
 in courses numbered 100 or above for which graduate credit
 has been approved. Six semester hours may be in sophomore
 courses, numbered 50-99."

The departments of chemistry, physics and mathematics
 will offer courses especially designed for this program. These
 courses will carry graduate credit but will not have pre-
 requisites."

Now, this is the section, of course, to which objections

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The departments of chemistry, physics and mathematics will offer courses especially designed for this program. These courses will carry graduate credit but will not have prerequisites.

Now, this is the section, of course, to which objections

were most feelingly expressed. These objections were, first, to the inclusion of eight hours of freshman courses; to the lack of specification of number of graduate level courses; and to lack of emphasis upon advice and the advisory committee. In other words, upon the idea that each individual program is more or less hand-made or hand-tailored to the needs and the previous training of the student within the necessary limitations, of course, for the achieving of the degree. We feel very strongly that this change takes care of practically all the objections that could be made to the original Items 5 and 6. It rules out all freshman courses. It specifies that of the 24 hours in science, at least eighteen hours shall be in graduate-level courses, it reemphasizes that every student's program must be approved by an advisory committee. The question will naturally arise why six hours of sophomore work was left in. The answer to that is because that was the only arrangement under which the departments of biology and geology would consent to moving away from freshman courses and at the same time consent to not pledging themselves to specially devised courses. We are not a large enough institution to run concurrently five of these specially devised courses in five sciences, and we simply asked biology and geology more or less to step aside. Geology comes out very well. The geology department tells me that next to the freshman course, the freshman sequence of Geology 1 and 2, the course they would rather have a high school teacher take is Mineralogy 73L and 74L, which incidentally is the only sophomore course offered by the Geology Department. The prerequisite for this is Chemistry 1 and 2, but the student taking the specially designed courses, if he had not taken one before, could go to 73 and 74L with the chemistry work as a co-requisite, whereas the 100-level courses in geology are rather heavily burdened with prerequisites.

Biology, frankly, does not come out so well. Biology has two courses, 71L and 72L which it would recommend as valuable to high school teachers next to their freshman courses 1 and 2. These courses have Biology 1 and 2 as prerequisites. This means the student to take them must have had Biology 1 and 2, or take them on his own if he insisted on taking a sophomore course in biology.

Astronomy 61 and 62 would be open to the student as they are in the original proposal, but, mind you, there is a limit of six hours in the department program on sophomore courses and the number of sophomore courses to be considered is actually only one in geology, two in biology and two in astronomy. The sophomore courses do not make much sense for students entering the specially designed courses in chemistry, mathematics and physics.

The third item of change has to do with Item 10, Page 4.

That has been revised to read as follows: "It is to be clearly understood that this is an experimental plan to run for a maximum period of three years beginning with the 1959-60 academic year. If, at the end of this three-year experimental period, it seems advisable to continue the program, the special committee originally appointed to work on the degree, together with the Graduate Committee, shall re-evaluate the program. These committees jointly shall then recommend to the General Faculty its continuance together with a definite statement of policy regarding the bases for establishing a permanent degree of Master of Science in the Teaching of Science."

The original statement was objected to for its indefiniteness. This, I believe you will agree, has been made as definite as it could be to indicate the experimental and somewhat emergency nature of the program. We have tried to make it as clear as we know how to make it.

I have no motion to make, Mr. President. I simply have been giving background and support for the revisions incorporated in the motion that Dr. Castetter introduced. Thank you very much for your attention.

POPEJOY Professor Regener?

PROFESSOR REGENER Mr. President, I think you can only agree with Dean Wynn that this is an important program and agree with him in the hope that something of this kind will be passed today. Nonetheless, I believe we may have a few misgivings and we should see if we can perhaps find a little support for them before actually passing it, if possible. One of them refers to the name of the degree. It is called a Master of Science in the Teaching of Science. Dean Wynn himself a few minutes ago referred to this as an education degree, and I think it would be more of a Master of Education in ~~the~~ Teaching Science, and that would place the degree where it should be.

MEMBER There is no ambiguity in that science refers to the teaching of science and not the science itself.

REGENER Another thing that worries us is under Item 1, that the prerequisites are that the student should have completed 24 hours. Isn't it true that they may have 12 hours in one and 12 hours in another science and that we may unnecessarily be burdening those students with an extra 12 hours? This seems unnecessarily strict and confining to the number of students we might attract into this program.

The third point has to do with the fact that under Item 2 the six semester hours at the sophomore level are still to count for graduate credit. I still believe that graduate credit should be given for graduate work only.

These objections were raised... to the inclusion of eight hours of freshman courses; to the lack of specification of number of graduate level courses; to lack of emphasis upon advice and the advisory committee; in other words, upon the idea that each individual program is one of less hand-made or hand-fitted to the needs and the previous training of the student within the necessary limitations of course, for the achieving of the degree. It is felt very strongly that this change takes care of practically all the objections that could be made to the original form and it takes out all freshman courses. It specifies that of the 24 hours in science, at least eighteen hours shall be in graduate-level courses, it emphasizes that every student's program must be approved by an advisory committee. The question will naturally arise why six hours of sophomore work was left in. The answer to that is because that was the only arrangement under which the department of biology and geology would consent to moving away from freshman courses and at the same time consent to not piggy-backing the master's program on top of the freshman courses. We are not a large enough institution to run concurrently five of these specially devised courses in five sciences, and we simply asked biology and geology to take on the extra work. Geology comes out very well. The geology department tells us that next to the freshman courses, the freshman sequence of geology I and II, the courses they would rather have a high school teacher take in Mineralogy 231 and 232, which incidentally is the only sophomore course offered by the Geology Department. The pre-requisites for this is Chemistry I and II, but the student taking the specially designed courses, if he had not taken the latter, could do so with 231 and 232 with the chemistry work as a co-requisite, whereas the 100-level courses in geology are rather heavily burdened with prerequisites.

Biology, frankly, does not come out so well. Biology has two courses, 231 and 232 which it would recommend as a substitute for high school teachers next to their freshman courses I and II. These courses have Biology I and II as prerequisites. This means the student to take them must have had Biology I and II, or take them on his own if he insisted on taking a sophomore course in biology.

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PROFESSOR REGENER

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The third point has to do with the fact that under item 2 the six semester hours at the sophomore level are still to count for graduate credit. I still believe that graduate credit should be given for graduate work only.

I shall make a motion to amend this proposal to the effect that this degree be called the Master of Education in ~~the Teaching of~~ Science Degree rather than the Master of Science in the Teaching of Science Degree.

PROFESSOR PARISH I second the motion.

POPEJOY This is an amendment to the original motion made by Professor Regener and seconded by Dr. Parish.

DEAN TRAVELSTEAD Mr. President, this matter has not been discussed in our Faculty. Members of our Faculty, I am sure, will feel free to talk to this point. I think it is not at all unreasonable. I am not sure that the title of the degree was all-important to us. There is nothing sacred about it. I, personally, have no objection to the proposed title. It might better indicate that it is in the College of Education. As I have indicated before on this floor, we do have some degrees called Bachelor of Science degrees in various areas in the College of Education which do not have the same meaning as the pure science degree. This matter of a science degree and just what it is was brought up before. At the master's level it is not in existence at the present time. I have no objection to it, but maybe some of the other members of our Faculty would like to speak to the point.

POPEJOY Does anyone else want to speak to this point? Are you ready for the question?

MEMBER Question.

POPEJOY All in favor to the amendment to the motion which was made by Professor Regener indicate by saying "aye". Opposed? The motion is carried.

New degree changed from Master of Science in the Teaching of Science to Master of Education in Science

MAYER-KALKSCHMIDT Mr. President, now that the name has been changed from Master of Science in the Teaching of Science to Master of Education, I think much better about this. I am afraid some people will feel I am too young at this university and I shouldn't contradict some of the illustrious members of the faculty here who proposed this whole program, but I come from one of the countries which is very close to this terribly feared Russia we hear so much about and I very often hear people talking about our high school and saying, "Oh, your high schools were so wonderful and we wish we could have one just like it."

But in German high schools when a teacher wants to teach he has to have what would be the equivalent of a master's degree in that science and I think there is a very good reason for it. I have the feeling that a teacher in high school can teach much better if he has a very good understanding of the subject matter rather than if he has a fairly good understand-

I shall make a motion to amend this proposal to the effect that this degree be called the Master of Education in the Science Degree rather than the Master of Science in the Teaching of Science Degree.

PROFESSOR PAKISH I second the motion.

PORELY This is an amendment to the original motion made by Professor Rieger and seconded by Dr. Pakish.

DEAN TRAVELSTAD Mr. President, this matter has not been discussed in our Faculty. Members of our Faculty, I am sure, will feel free to talk to this point. I think it is not at all unreasonable. I am not sure that the title of the degree was all-important to us. There is nothing sacred about it. I personally have no objection to the proposed title. It might better indicate that it is in the College of Education. As I have indicated before on this floor, we do have some degrees called Bachelor of Science degrees in various areas in the College of Education which do not have the same meaning as the pure science degree. This matter of a science degree and just what it is was brought up before. At the master's level it is not in existence at the present time. I have no objection to it, but maybe some of the other members of our Faculty would like to speak to the point.

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MAYER-KALKSCHMIDT Mr. President, now that the name has been changed from Master of Science in the Teaching of Science to Master of Education, I think much better about this. I am afraid some people will feel I am too young at this university and I shouldn't contradict some of the illustrious members of the Faculty here who proposed this whole program, but I come from one of the countries which is very close to this terribly feared Russia we hear so much about and I very often hear people talking about our high school and saying, "Oh, your high schools were so wonderful and we wish we could have one just like it."

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ing of some of the ideas of several subject matters. We have talked about these specially tailored courses which might be set up and I object also to it because those courses which would be taught there would give you a very loose idea of what mathematics might be about, and I have a feeling a person cannot know a subject really well enough to teach it to young persons, young girls and boys, unless he really goes into this subject matter, such as mathematics, very deeply. Now, these students will be called masters, just taking their 24 hours from this and this and this course. I wouldn't feel too good at all if some of these teachers would be teaching mathematics and all he would have for his background would be one of these specially tailored courses. I have the feeling that the whole fault lies with the State Superintendent of Teaching rather than with us. If the law would be passed that somebody had to have a master's degree in this specific subject before he can teach it, then we would have good teachers. If it was said a teacher who wants to teach in mathematics has to have a master's degree in mathematics, then we would have good teachers in mathematics. We are just trying to help out the people who are making the laws and we are not going to have any good high school teachers at all. You can't do a good job after six hours of this. I don't think they will teach any better at all. I am afraid I can't make a motion here, but I don't see why we can't ask the Superintendent of Schools or somebody who knows something about this to pass a law that every student who wants to teach has to have a master's degree or a bachelor's degree in the science which he wants to teach, and then if we want to make it more acceptable for him, just give him more money. I think if we want to do this like we have proposed here, we will not have any good teachers at all.

PROFESSOR RIED Mr. President, I have a question. Dean Wynn, wouldn't it be possible for a graduate student to start on this in the summer time and thus, perhaps, not finish it within the three-year experimental term? What protective measures do we have for that?

WYNN I think we have the same protection that we have on any program that we institute and put into the catalog, that students who were in process at the time the provision is withdrawn would still have the right to finish the degree under the terms of the requirements at the time they enrolled. That is the way we have always interpreted it, isn't that right, Dr. Castetter?

CASTETTER Yes.

DR. WELLOCK I have listened with a great deal of interest to what Dean Wynn has to say in talking about the need for qualified teachers, but here in this statement you have 24

ing of some of the ideas of several subject matters. We have talked about these specially tailored courses which might be set up and I object also to it because those courses which would be taught there would give you a very loose idea of what mathematics might be about, and I have a feeling a person cannot know a subject really well enough to teach it to young persons, young girls and boys, unless he really goes into this subject matter, such as mathematics, very deeply. Now, these students will be called masters, just taking their 24 hours from this and this and this course. I wouldn't feel too good at all if some of these teachers would be teaching mathematics and all he would have for his background would be one of these specially tailored courses. I have the feeling that the whole fault lies with the State Superintendent of Teaching rather than with us. If the law would be passed that somebody had to have a master's degree in this specific subject before he can teach it, then we would have good teachers. If it was said a teacher who wants to teach in mathematics has to have a master's degree in mathematics, then we would have good teachers in mathematics. We are just trying to help out the people who are making the laws and we are not going to have any good high school teachers at all. You can't do a good job after six hours of this. I don't think they will teach any better at all. I am afraid I can't make a motion here, but I don't see why we can't ask the Superintendent of Schools or somebody who knows something about this to pass a law that every student who wants to teach has to have a master's degree or a bachelor's degree in the science which he wants to teach, and then if we want to make it more acceptable for him, just give him more money. I think if we want to do this like we have proposed here, we will not have any good teachers at all.

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CASPARY Yes.

DR. WELCK I have listened with a great deal of interest to what Dean Wynn has to say in talking about the need for qualified teachers, but here in this statement you have 24

hours in one of the following fields. Included in those fields you have astronomy and geology. If a student elects to take the 24 hours in astronomy, or geology, in what way are you improving the teaching situation in the high schools of New Mexico? Those are not taught in our high schools.

WYNN The assumption is with the three specially devised courses that any student with a respectable number of hours and any good scientific discipline and who is already teaching mathematics and perhaps chemistry in high school anyway would be a better teacher by coming to us for one year. But he has got to have something to start with. There was very scornful mention made of the fact that we were not requiring in the bachelor's degree for entrance into this program any specific amount of science, and this proposal was designed to correct that a little bit. I think a man who has had 24 hours of astronomy is capable of going into a program in chemistry and physics and mathematics without prerequisites, perhaps. In fact, he would probably be a candidate for upper division work.

WELCK I don't believe I have made myself clear. Say he has 24 hours of astronomy. How could that make him a better teacher in our high schools when we don't teach astronomy?

POPEJOY These 24 hours might be in the undergraduate work?

WYNN Those are undergraduate hours, Dr. Welck.

POPEJOY In other words, the student is required to have 24 hours in one subject matter field?

WYNN Before he enters this program.

POPEJOY Before he is admitted to this program.

PROFESSOR HUBER Mr. President, I am speaking to the proposed change Number 2 in the last paragraph. Do I understand that these courses that are to be specially arranged by the Chemistry, Physics, and Mathematics Departments are in reality the courses spoken of before that includes Chemistry 1 and 2 in seminars in order to treat it differently from our regular freshman courses?

WYNN The only department in question there would be Chemistry because Mathematics has already devised special courses and has them in the catalog. Physics held out all the way through for specially devised courses. So, Chemistry is the only one involved. And now you are assured by the chair-

hours in one of the following fields. Included in those fields you have astronomy and geology. If a student elects to take the 24 hours in astronomy, or geology, in what way are you improving the teaching situation in the high schools of New Mexico? Those are not taught in our high schools.

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WYNN The only department in question there would be Chemistry because Mathematics has already devised special courses and has them in the catalog. Physics held out all the way through for specially devised courses. So, Chemistry is the only one involved. And now you are accused by the chair-

man of the Chemistry Department that although he would prefer to use 1 and 2 if he asked the Committee to approve a graduate course, he would prefer a graduate course.

HUBER I believe that answers the next question I have. If this were adopted today, the wording of it is such that it would indicate they will receive graduate credit. You are not intending to by-pass the Graduate Committee?

WYNN No, the departments will have to have the courses approved by the Graduate Committee just like any other courses.

TRAVELSTEAD I would like to add one point about the State Superintendent of Instruction, and laws to give us better teachers. What these people would like and what they are able to get in the public schools are definitely two different things. I suppose it would be good to have a person altogether qualified for his special subject matter, but New Mexico high schools cannot support this kind of teaching. They do not have the teachers, they do not have the classes, and they do not have the money to support this kind of program in physics or chemistry so the program has to be somewhat broadened.

However, I would like to call attention to the fact that a recent change has been made by the State Board of Education which shows the spirit in which that Board is trying to move.

A person with 24 hours of science would be qualified to teach any of the sciences in New Mexico high schools, including physics, chemistry, general science, biology, or anything else that happened to be on the schedule. Now, several of us from this University and from other colleges and universities in the State, including Dr. Niebsover, have tried to get something we thought was better than this. Everybody in the room, I am sure, would agree that 24 hours would not qualify all these people. This was ridiculous.

The most recent regulation which came from the State Board reads as follows: "The State Board of Education at its meeting on December 9, 1957, voted unanimously to increase the requirements for the teaching of science in the State. Beginning September 1, 1960, a teacher must have 15 semester hours in any specific science (biology, chemistry, geology, physics) that he teaches unless he has a total of 36 semester hours in science; in that case he may teach a specific science on 12 semester hours.

General science teachers must have 24 semester hours in science including 8 semester hours in physics (with regular laboratory work), one course in chemistry, and one in biology. The remainder of the 24 hours may be in the above three subjects, or geology or astronomy. By September 1, 1962, the general science teacher must have 36 semester hours in science with 8 hours of physics, 8 hours of chemistry, and

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8 hours of biology. Mathematics may be included in the re-
maining 12 hours.

These requirements were worked out by groups of teachers
and administrators, by the Coordinating Council of Colleges
and Secondary Schools, and the State Department of Educa-
tion. They were approved by the TEPS Commission and pre-
sented by that body to the State Board of Education. These
are minimum requirements and should not necessarily be con-
sidered adequate. You will observe that the Board allowed
2½ school years and three summers to make up deficits. It
was thought that this would give ample time."

My first point is that we have to move from where we
are forward. We think this degree which is proposed here
is a move in that direction, even though it is not Eutopian.

MAYER KALKSCHMIDT Is there any chance of asking the
State Board of Education that, say, in five years the Master
of Education in the Teaching of Science -- that a teacher
would have to have a Master of Education in the Teaching of
Science if he wanted to teach in high school? Is there any
chance of getting the Board of Education to recognize this
Master of Education in the Teaching of Science degree?

TRAVELSTEAD I, of course, cannot answer that. I am
sure you realize that I cannot answer for the State Board of
Education. However, I am sure there is so much feeling on
this that progress will be made; but the problem is that no
matter how high you put your requirements, unless there are
people available, the requirement means nothing. So it was
felt a little organization on this was sensible.

PROFESSOR IVINS Mr. Chairman, may I make an observa-
tion and then a motion? In view of the fact that the title
to this degree has been very recently changed, I would like
to observe that I have heard of many shotgun marriages, and
I believe that term was used or implied once before in the
discussion of this degree. However, this is the first time
I have heard of the shotgun being used on the female.

Mr. President, I move the previous question.

POPE JOY Motion on the previous question? I think this
is the first time we have had a motion like that in my career
as chairman.

PROFESSOR JULIAN DUNCAN Mr. Chairman, I would like to
raise a question about this 24 semester hours.

SCHOLES I believe the motion on the previous question

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as chairman.

PROFESSOR JULIAN DUNCAN Mr. Chairman, I would like to
raise a question about this 24 semester hours.

SCOTT I believe the motion on the previous question

is not debatable.

POPEJOY I believe you are right.

WYNN Will you please explain to us what this means, Mr.
President?

POPEJOY In my impression, if this is a motion on the
previous question, it cannot be debated, and it takes two-
thirds to carry. It is a motion on the previous question,
the original motion, with the amendment. It has one amend-
ment attached to it.

POPEJOY All
Is Are you ready to vote on it?

MEMBER Mr. President, if the Faculty passes this, then
what does it mean?

WYNN It means that the question as amended must be put
to us for a vote now without any further debate; but this
does not settle the original question.

POPEJOY Dean Wynn, did you make an amendment to this?

WYNN No, Dr. Castetter's motion includes the revisions
I talked about and they are all in your hands in this dittoed
sheet.

MEMBER Is this the previous question now?

WYNN This is the previous question with the amendment
which Dr. Regener proposed and which was passed.

POPEJOY Any other questions?

MEMBER Question.

POPEJOY All in favor of the motion indicate by saying
"aye". The chair rules there is a two-thirds majority.

JULIAN DUNCAN I ask for an accounting.

POPEJOY There is a request for a count. All those in
favor of the motion hold up your hands.

MR. DURRIE 70 for the motion.

POPEJOY All those opposed to the motion.

MR. DURRIE 18.

POPEJOY The motion is carried.

MEMBER Question.

POPEJOY All in favor of the motion made by Dean Castetter with the amendment which was carried as made by Professor Regener indicate by saying "aye". Opposed? The ayes have it.

WYNN I move we adjourn.

POPEJOY There is a motion to adjourn.

SEVERAL MEMBERS Second.

POPEJOY All in favor say "aye". Opposed? The motion is carried.

Adjournment, 5:10 p. m.

MEMBER Question.

POPEJOY All in favor of the motion indicate by saying "aye". The chair rules there is a two-thirds majority.

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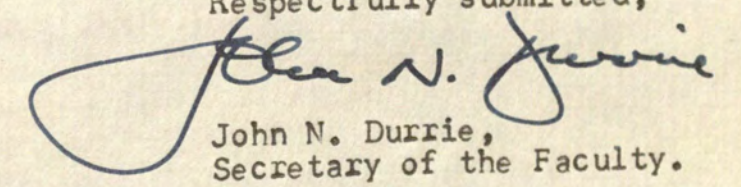
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MR. DURRIE 18.

POPEJOY The motion is carried.

Respectfully submitted,



John N. Durrie,
Secretary of the Faculty.

REVISIONS TO BE INCLUDED IN MOTION TO ESTABLISH
DEGREE OF MASTER OF SCIENCE IN THE TEACHING OF SCIENCE

June 9, 1958

1. For 1 (b), page 2, of original proposal (included with agenda for the General Faculty meeting of May 13), substitute the following:

... completed not less than 24 hours in one of the following fields: astronomy, biology, chemistry, geology, mathematics, or physics. (Students presenting an inadequate amount of science or mathematics shall be declared to have a deficiency which shall be removed prior to entrance into the program in the manner prescribed by the adviser.) and

2. For all of items 5 and 6, page 3, substitute the following:

Not less than 24 semester hours of the course work for the degree shall be in courses in astronomy, biology, chemistry, geology, mathematics, or physics. All of the 24 hours shall be specifically approved by the student's individual adviser and by the advisory committee for the program (see item 8 below). Of the 24 hours, at least 18 semester hours shall be in courses numbered 100 or above for which graduate credit has been approved. Six semester hours may be in sophomore courses, numbered 50-99.

The departments of chemistry, physics, and mathematics will offer courses especially designed for this program. These courses will carry graduate credit but will not have prerequisites.

3. For item 10, page 4, substitute the following:

It is to be clearly understood that this is an experimental plan to run for a maximum period of three years beginning with the 1959-60 academic year. If, at the end of this three-year experimental period, it seems advisable to continue the program, the special committee originally appointed to work on the degree, together with the Graduate Committee, shall re-evaluate the program. These committees jointly shall then recommend to the General Faculty its continuance together with a definite statement of policy regarding the bases for establishing a permanent degree of Master of Science in the Teaching of Science.

MEMBER Question.

BOEY All in favor of the motion made by Dean Castetter with the amendment which was carried as made by Professor ... Opposed? The eyes have it.

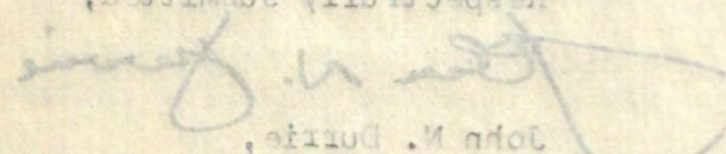
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BOEY There is a motion to adjourn.

SEVERAL MEMBERS Second.

BOEY All in favor say "aye". Opposed? The motion is carried.

Adjournment, 5:10 p. m.

Respectfully submitted,

 John M. Durie,
 Secretary of the Faculty.

MOTION BY BOARD OF DEANS OF UNIVERSITY COLLEGE

The Report of the Tidal Wave Committee, dated May 17, 1956, page 13, items F and G, reads as follows:

F. In order for a student to receive a certificate of completion for satisfactory work in the University College, he shall have obtained a cumulative average for all his course work of eight-tenths of one point.

G. A minimum of 60 credit hours shall be required of all students in the University College in order to be eligible for a certificate of completion. No time limit shall be placed upon the completion of the minimum credit hour requirement.

The Board of Deans of the University College wishes to move that these two items be combined and made to read as follows:

F. To receive the University College certificate of completion, the student shall (1) earn a minimum of 60 hours of college work, of which at least 30 hours shall have been earned in the University of New Mexico, with 15 of these 30 hours earned in the University College of the University of New Mexico; (2) at the end of the semester or term in which the total of college credits first becomes 60 or more, have a cumulative average of .8 upon all work attempted through that term or semester; and (3) specifically apply for the certificate. No time limit shall be placed upon the completion of the minimum credit-hour requirement.

- Alfred Edwin Duran
- Charles Joseph Eklund
- Patricia Ann Farmlay
- Murray Bernard Feldman
- Stanley Duane Fennar
- Harold Dunn Francis
- Merwin Winfred Franks
- Barbara Jean Frederick
- Alloyd James Frost
- DeJores Lillian Gallares
- History, French
- Anthropology
- History
- Psychology
- Geology
- Speech
- Government
- Spanish

The University of New Mexico
Office of Admissions and Records

CANDIDATES FOR DEGREES
June 11, 1958

COLLEGE OF ARTS AND SCIENCES
Bachelor of Arts

<u>Name</u>	<u>Major</u>	<u>Minor</u>
#William Douglas Adler	Psychology	Government
#Lewis John Alary	Chemistry	Geology
*Lloyd Lindabury Alpaugh, Jr.	English	Psychology
Albert Arthur Amador, III	Chemistry	Biology
John Wynn Anderson	Government	English
Clarence Dempsey Beck	History	German; English
Gus John Benakis	Economics	Business Administration
Katherine Alice Bennett	Sociology	English
#Leah Sandra Borgrink	History	Psychology
Howard Clinton Brawn	English	Sociology
Audrey Eleanor Buell	Geology	Anthropology
*Sumner Garfield Buell	Geology	Naval Science
+ Marcia Mae Bullard	English	Philosophy
Mary Kathleen Burke	Spanish	English; History
John Robert Crull Burroughs	English	History
+ Mary Antoinette Cella	Spanish	French
David Ernesto Chavez	Inter-American Affairs	--
Fred Robert Chavez	Government	Psychology
Jose Milton Chavez	Inter-American Affairs	--
+ Mary Ann Clark	Home Economics	Biology; Psychology
Patricia McDowell Crist	Sociology; Psychology	--
Richard Arthur Dearnley	Anthropology	Psychology
*William Weldon Deaton, Jr.	English	Mathematics
William B. Dickinson	Government	Psychology
Edward Brown Dobson	Anthropology	Air Science
#Jane Martin Doran	Psychology	Sociology
#Charles Joseph Ederer	Inter-American Affairs	--
Patricia Ann Fanning	History; French	Psychology
Murray Bernard Feldman	Anthropology	Sociology
Stanley Duane Fenner	History	Government
#Harold Dunn Francis	Psychology	Sociology
#Morris Winfred Franks	Geology	Biology
Barbara Joan Frederich	Speech	English
#Lloyd James Frost	Government	Economics
Dolores Lillian Gallegos	Spanish	Sociology; English

+ With Distinction

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF ARTS AND SCIENCES (continued)
Bachelor of Arts (continued)

	<u>Name</u>	<u>Major</u>	<u>Minor</u>
	*Robert Levi Gallegos	Government	Portuguese
	Arlene Gloria Garcia	Spanish	Home Economics
	Teresa Millar Gauerke	Philosophy; Government	--
	Simmie Romero Grant	Spanish	English
	William Francis Gribbon	History	English
	#Arthur Horne Harris	Biology	Anthropology
	William Howard Heath	Journalism	History
	#Edwin Charles Herbert	Psychology	Air Science
	B. D. Hill	Government	Portuguese
	*Joseph Gerard Hill	Psychology	Business Administration
+	*Robert Edward Hill	French	Latin
	Philip Matthew Hobler	Anthropology	Psychology
+	David Robert Huerta	Sociology	Psychology
	Patience Susan Hutty	English	History
	Alexander James Jack	Anthropology	Biology
	David George Jackson	Journalism	English
	#Jean Luttrell Jessner	English	Psychology
	Bobby Dean Jordan	Government	English
	Dorothy Frances Julian	English	French
	John Armistead Kinsolving	History	English
	#Harry Edward Koester	Geology	Chemistry
	#Arthur Michael Stephen Kompass	English	Music; German
	Nancy Kriebel	Anthropology	Art
	Roger Michael Laine	Psychology	English
	#Max LeRoy Lare	Anthropology	Spanish
++	James William Leasure	Economics	Mathematics
	Louis Richard Leurig	Government	History
	*Liston Edgington Leyendecker	History	English
	Arthur Edward Lindberg	Geology	Naval Science
	Charles W. Lockhart	History	Naval Science
	Mary Glen Kisner Lyman	Psychology	Philosophy
	Arleigh Earl Machemehl	Geology	Chemistry
X	*David John Mall	Speech	English
	Amador Roberto Martinez	Psychology	English
	Velma Bernice Martinez	Journalism	Spanish; English
	Eric Thor McCrossen	Journalism	Government
++	William Lawrence McDaniel	Economics	Mathematics
	Jeannette Herven McKee	Spanish	German
	Joyce Kemper Miller	Psychology	English
	Alice Lee West Moreland	Inter-American Affairs	--
	Helmut Jacob Naumer	Anthropology	Spanish
+	With Distinction		
++	With University Honors		
X	With Honors in Speech		

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF ARTS AND SCIENCES (continued)
Bachelor of Arts (continued)

	<u>Name</u>	<u>Major</u>	<u>Minor</u>
XX	Elizabeth Ann Corrough Nelson	Psychology	English
	Charles Robert Nichols	Government	History
	Irwin Leo Nolan	History	English
	#William Noland	History	Spanish
	Donald Joseph Ortiz	Government	Psychology
	Sue Kathryn Pfeiffer	Journalism	English
	Jose Carlos Monteiro Raymundo	Geology	Engineering
+	#David Austin Reece	Psychology	Sociology
	Birgit Hamilton Regener	French	German; English
	Ruben Dario Salaz	History	Spanish
	Bartley Paul Smith	Inter-American Affairs	--
	James Mark Southard	Inter-American Affairs	--
	*Morris Dale Stagner	Sociology	English
	Roslyn Babette Stein	English	Sociology
	Jean Dennis Stern	Geology	Spanish
	++ Jack Arthur Strom	Psychology	English; Air Science
	++ Paul Albert Sweitzer	Journalism	English
	William Edwin Swope	Government	Economics
	John Harnett Taylor	Geology	Geography
	Thomas Tellez	Inter-American Affairs	--
	Sophie Diane Thompson	Social Work	English
	Tom Hamilton Towers	English	History
	*Carmen Margarite Trujillo	Anthropology	Art History
	Rosemary Heldt Udell	Government	French
	Frank A. Valdez, Jr.	Spanish	French
	#James Richard Volpe	English	Art
	Phyllis Anne Ward	Spanish	French
	#Bryan Merritt Watson	Inter-American Affairs	--
	Marguerite Ann Whipple	Government	Biology
	Elizabeth Renwick Whittingham	Spanish	Music; French
	Jane Edith Whorley	English	Spanish
	Nancy Martha Wilkinson	Anthropology	Biology
	James Harold Winkler	Spanish	Anthropology
	Donald Gerald Woodard	Anthropology	Business Administration
	James Monroe Woodman, III	Speech	English
	Daniel O. Zeff	Journalism	English
XX	With Honors in Government		
+	With Distinction		
++	With University Honors		

*newed
ditionally*

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF ARTS AND SCIENCES (continued)
Bachelor of Science

	<u>Name</u>	<u>Major</u>	<u>Minor</u>
	<i>Pete Catano Aquilar</i>	<i>Geology</i>	<i>Engineering</i>
	Zack Luther Dean	Geology	Engineering
	#Jerome Ernest Anderson	Geology	Engineering
	James Leroy Arthur	Geology	Engineering
	Vivian Turnmyre Bardsley	Biology	English
	#Victor Franklin Barresi	Biology	Chemistry
	Judith Anne Bateman	Biology	Anthropology
	Robert Joseph Becker	Mathematics	Physics
	Nancy Rose Benally	Biology	English
	Barbara Pino Brawn	Mathematics	English
	*Helen Henry Buster	Biology	Chemistry
	John Thomas Calkins	Biology	Chemistry
	*Arthur A. Campbell	Geology	Engineering
	Bartolome Natale Campodonico	Geology	Engineering
	John Richard Clark	Geology	Biology
	Elbert Lauson Clemmer	Biology	Psychology
	Leonard Manuel Contreras	Mathematics	History
	Lindrith Eugene Cordell	Geology	Engineering
##	Gisela Ningel Cultreri	Biology	German
	Ray Maurice Coudray	Geology	Biology
	James H. Ronald Curd	Biology	Naval Science
+	Robert Ernest Diebold	Physics; Mathematics	Chemistry
	Edwin Clarence Dunn	Biology	Chemistry
	James Chester Faris	Chemistry	English
	Frank Riley Fegan	Geology	Engineering
+	#John Jerome Freeman	Chemistry	Mathematics
	John Dale French	Physics	Mathematics
	#Louie Burlison Gay	Biology	Anthropology
	#Kenneth Leroy Gibson	Biology	History
	Marvin Edward Goff	Geology	Mathematics; Engineering
	#William Golden Harrison	Geology	Engineering
	#John Schuyler Havens	Geology; Art	Engineering
	#Jim S. Hinds	Geology	Engineering
	*William V. Hocker	Biology	English
	Julian Richard Hoffman	Mathematics	French
	James Riley Huber	Geology	Engineering
	#Donald Bratton Humphrey	Geology	Engineering
	Charles Latif Hyder	Mathematics; Physics	--
	Jeanne Marie Jordan	Biology	Psychology
	*Alfred A. LaGuardia	Biology	Art
##	Nancy Welch Lamb	Psychology	Biology
##	With Honors in Psychology		
+	With Distinction		

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF ARTS AND SCIENCES (continued)
Bachelor of Science (continued)

Name	Major	Minor
<i>HENRY JULIAN MARTINEZ</i> #Charlie Bert Ledbetter	<i>BIOLOGY</i> Geology	<i>CHEMISTRY</i> Engineering
Kathryn Rose Liesse	Biology	Chemistry
James Arthur Major	Biology	Naval Science
George Phillip Mansur	Biology	Chemistry
Steven L. Marory	Biology	Chemistry
Max McBride, Jr.	Biology	Chemistry
#Harrison Loren McCarroll	Geology	Engineering
+ William Lawrence McDaniel	Mathematics	Economics
#James Luther McSwain	Geology	Engineering
Mary Milner Meek	Biology	Psychology
Ernest Dunckhorst Melendez	Mathematics	English
Holly A. Merki	Geology	Biology
Arthur Beiser Merkle	Geology	Chemistry
John William M'Gonigle	Geology	Engineering
Mike S. Millican	Chemistry	English
#John Moore	Geology	Engineering
** Stewart Francis Musket	Chemistry	Philosophy
*Walter George Perkins	Chemistry	Mathematics
++ *James Richard Peterson	Geology	Biology
#Charles Henry Pierce	Mathematics	Physics
William Donald Purtymun	Geology	Engineering
+ Otto George Raabe, Jr.	Physics	Naval Science; Mathematics
Richard Manuel Ramirez	Geology	Engineering
Robert Harold Ryan	Mathematics	Physics
#Dorane Teague	Biology	English
+ John Kemmerle White	Geology	Engineering
David Arnold Williams	Biology	Chemistry
Francis Mack Waller	Geology	Engineering
Richard Nathaniel Wilson	Geology	Engineering
Patricia Espinosa Wise	Dietetics	Journalism
William Rogers Wooden	Biology	Chemistry
*Catherine E. Zimmerman	Biology	Philosophy

COLLEGE OF ENGINEERING
Bachelor of Science in Architectural EngineeringHildreth Laman Barker
Dewey Ray Blair
Charles Robert CampbellJohn Gorry Keleher
Morris Conrad Rippel
#Joe Odosio Sandoval** With Honors in Chemistry
++ With University Honors
+ With Distinction*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF ENGINEERING (continued)
Bachelor of Science in Chemical Engineering

John Aguilar
 Jay Gerard Baetz
 (*) Joseph G. Banks
 William Alanzo Bruner
 William Henry Butterbaugh, III
 Robert Walter Darmitzel
 Alan Everett Gensemer

Joseph Bennet Henry
 David Eldred Holt, Jr.
 Robert Lee King
 Kim Ong
 Luciano Sedillo
 Ernest Park Sims
 George Goss Yeager

Bachelor of Science in Civil Engineering

Robert Earl Alexander
 Donald Bruce Carothers
 Mel Castillo
 #Anthony Mariano Chavez
 + Theodore Robert Gordan
 *Costas John Logothetis
 Jose Rafael Luna, Jr.
 Wayne Willis Mardis
 Bill Muller
 *** Carl Fredrick Nordin, Jr.

Ali Muhammad Rashid
 Norman Francis Root
 Hal S. Salter
 + Frank William Scheer
 Om Nath Singh
 William Paul Steward
 Felix Trujillo
 Richard George Vaughan
 Jack Glenn Verhines
 Eliu Jose Vigil
 Leonard Thomas Weise

Bachelor of Science in Electrical Engineering

Edwin Lanier Bailey
 LeRoy Barncastle
 Claude Lucky Bessent, Jr.
 Billy Windell Blair
 John Richard Brassfield

Howard Charles Chandon
 Samuel Mathew Clough
 William Nelson Crawford
 Donald William Dearholt
 #James Rothwell Durant

Paul Richard Ellis, Jr.
 Harold Gene Ferguson
 Edward Royce Fletcher
 William Richard Franks

James William Hamilton
 Daniel James Hampton
 James Carl Hansen
 #John Gilbert Jaramillo
 Ronald LeRoy Johnson
 Charles John Kohlhausen
 *Rey Martin Mata
 Clinton Jennings McCan
 John Delbert McCurdy
 John Charles Mitchell, Jr.
 Charles Adelbert Nelson
 Philip Parker
 David Miles Peterson
 Lawson Mitchell Phye
 Richard Lee Powell
 Walter James Preber

+ With Distinction
 *** With Honors in Civil Engineering

*Finished requirements 1957 SS.
 #Finished requirements Semester I, 1957-58.
 (*Awarded posthumously.

COLLEGE OF ENGINEERING (continued)
Bachelor of Science in Electrical Engineering (continued)

Lenox Robert Starkey	Edward Joseph Vulgan
Donald Thomas Tosti	Donovan James White
Richard Denis Volk	John McGuire Willis

Bachelor of Science in Mechanical Engineering

Donald Dale Bechtel	+ Jack Burton Little
Jerome F. Beckes	Raymond Price Lutz, Jr.
Dale Hinton Burnworth	Floyd Huxley Mathews
Thomas Dale Clark	John Raymond Phillips, Jr.
Wallace Whelan Dillard	Robert Newell Reinhart
John Robert Doughty	Frank Russo
John Byford Downer	Carl Michael Schlick
John Carroll Elder	+ William Joseph Sieger
Billy Lawrence George	Russell Trentman Souders, Jr.
Thomas Gutierrez	Sostenes Fermin Suazo
Harold Hilton Henderson	Raymond Michael Torick
Donald Robert Kuehnert	Robert Guwinn Tucker
Carl Elmer Larson	George Price Warner
Sherman Roy Lenning, Jr.	+ Larry Emmett Williams

COLLEGE OF EDUCATION
Bachelor of Arts in Education

Name	Major	Minor	Curric.
Carol Bertrand Alalouf	Art Education	--	Art Ed
Eloy Casaus Baca	History	Spanish	H S
H. Thomas Baird, Jr.	Social Studies	--	H S
*John Lee Bobroff	History	English	H S
Ray Edwin Brown	English	Music Education	H S
Edward Paul Castillo	Social Studies	--	H S
*Jack LeRoy Cecil	English	History	H S
#David Chavez, Jr.	Spanish	History	H S
Winston Irvin Christian, Jr.	Music Education	--	H S
#William Lawrence Clawson	English	Psychology	H S
Nancy Marie Cole	English	Music	H S
Raymond George Cowan, Jr.	Government	History	H S
Joanne Stevens Dalton	Social Studies	--	

+ With Distinction

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF EDUCATION (continued)
Bachelor of Arts in Education (continued)

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
*Rito T. Garcia	Sociology	Spanish	H S
Manuel Gonzales	Spanish	Social Studies	H S
William Roy Gore	Social Studies	--	H S
Mary Louise Hail	Social Studies	--	H S
#Margherita Mueck Henning	Music Education	French; German	H S
James Bernard Higgins	Music Education	--	H S
Raymond Allen Jones	Social Studies	--	H S
Virginia Ann Junker	Art Education	--	Art Ed
Ann Wallace Kiefer	Speech	English	H S
+ Carol Ann Kluver	History	English	H S
James Donald Lee	Social Studies	--	H S
Marion Kay Marks	Social Studies	English	H S
*Elinor Marie Marquez	Art Education	English	Art Ed
A. V. McFarland	Social Studies	--	H S
Martha Carolyn Mersman	Social Studies; Psychology	History	H S
#John Leslie Miller	Social Studies	--	H S
Navarro Scott Momaday	Government	Speech; English.	H S
Harry Moskos	Journalism	Speech	H S
Marilyn Irene Neuber	Music Education	--	H S
Fay Kathleen Noyes	History	Spanish	H S
Mary Ann Otte	Speech	Psychology	H S
*Rose Marie Packard	History	Journalism	H S
Earle Powell	Social Studies	--	Art Ed
Phyllis Ancona Robinson	Art Education	Mathematics	H S
*Edward William Romary	English	History	H S
*Rita Ann Rowley	Social Studies	--	H S
Dolores Salazar	Spanish	Business Education	H S
#Joseph Robert Sanchez	History	Air Science	H S
*Melvin Donald Shockey	Anthropology	Biology	H S
Paul Joseph Studebaker	Social Studies	--	H S
Robert Gene Swan	Social Studies	Physical Education	H S
Louis J. Trujillo	Social Studies	--	H S
Julian Wise	Journalism	English	H S

Bachelor of Science in Education

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
*Thomas Loftin Andrews, Jr.	Science	--	H S
Mary Joyce Arellano	Elementary Education	--	El Ed

+ With Distinction

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF EDUCATION (continued)
Bachelor of Science in Education (continued)

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
Jo Nelle Vinyard Armstrong	Business Education	--	H S
Helen Collene Atchley	Elementary Education	--	El Ed
*Elizabeth Ann Banks	Business Education	English	H S
#Ellen Toynton Beale	Home Economics	Biology	H S
Martha Jane Benge	Home Economics	--	H S
*Evelyn Sellars Brannan	Business Education	--	H S
Marilyn Butler	Elementary Education	--	El Ed
William Montgomery Cleveland	Business Education	Economics	H S
Thomas Crowther Cochran, Jr.	Mathematics	English; Air Science	H S
*Francis Cristofano	Mathematics	Business Admin	H S
Catherine Jeanette Dahlgren	Elementary Education	--	El Ed
Lucy Zartman Dobkins	Elementary Education	--	El Ed
#Don Dee Dunham	Mathematics	English; Geography	H S
Marjorie Rose Endres	Elementary Education	--	El Ed
Torksey Ann Ensminger	Home Economics	--	H S
Dora Krahenbuhl Eubank	Elementary Education	--	El Ed
Jerene Helen Fleck	Business Education	Latin	H S
#Jerry Clinton French	Elementary Education	--	El Ed
Maria Leonor Garcia	Elementary Education	--	El Ed
#Helen Louise Gardner	Elementary Education	--	El Ed
Henry James Goldsmith	Science	--	H S
Louis Francisco Griego	Mathematics	Latin; English	H S
*Joann Wallace Griffin	Business Education	--	H S
Betty June Gross	Science	--	H S
#Gerald Wesley Hamrin	Mathematics	Physics	H S
+ Gloria Dee Hanawald	Elementary Education	--	El Ed
William Clem Harding	Science	--	H S
Gloria Cleo Herrera	Elementary Education	--	El Ed
Melvin Edward Hirschi	Science	--	H S
Betsy Brown Hollifield	Home Economics	--	H S
#Thomas Lee Huff	General Science	--	El Ed
Minnie Joyce Hupp	Elementary Education	--	H S
Elton Byerly Kern	Home Economics	--	H S
Ann Marion Kimbell	Elementary Education	--	El Ed
Beverly Jean Knadjian	Home Economics	--	H S
Riette Lewinson	Elementary Education	--	El Ed
*Olinda Estella Luna	Business Education	Music Education	H S
#Sandra Ann Maloch	Elementary Education	--	El Ed
Janet Anne Mayland	Business Education	--	H S
#Betty Wildman McBurniett	Elementary Education	--	El Ed
Berwyn Keith McKinney	Elementary Education	--	El Ed
Ruth Stowell McKown	Elementary Education	--	El Ed
*Helen Lattin McMichael	Business Education	Home Economics	H S
Nancy McKay McNeil	Home Economics	--	H S

+ With Distinction

*Finished requirements 1957 SS.
#Finished Requirements Semester I, 1957-58.

COLLEGE OF EDUCATION (continued)
Bachelor of Science in Education (continued)

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
#Alexander Paul Mercure	Business Education	Economics	H S
*Robert Fount Miller	Biology; English	--	H S
#Janet Barnes Nations	Elementary Education	--	El Ed
Lala Vivian Oman	Home Economics	--	H S
Margaret Ann Peke	Elementary Education	--	El Ed
*Glen Eugene Phillips	Elementary Education	--	El Ed
Jetty Jo Potter	Business Education	Dramatic Art	H S
James Donald Ramsey	General Science	Biology	H S
#Elinor Quackenbush Roberson	Elementary Education	--	El Ed
#Jeannette Jackson Rohne	Home Economics	--	H S
Virginia Romero	Elementary Education	--	El Ed
Mary Jean Rose	Business Education	Sociology	H S
Taeko Sakami	Business Education	French; English	H S
Eleanor Mae Scott	Elementary Education	--	El Ed
William Daniel Seitz	Biology	Psychology	H S
Barbara Jean Smith	Elementary Education	--	El Ed
#Benjamin Trujillo	Mathematics	Economics	H S
Helen Mary VanAtta	Elementary Education	--	El Ed
*James Neil Vedder	Biology	Chemistry	H S
Anna Palmira Viviani	Business Education	Spanish	H S
#Adoria Ann Martin Warnock	Business Education	Music Education	H S
#Sumter Morris West, Jr.	General Science	--	H S
Marguerite Childs Wetherbe	Elementary Education	--	El Ed
Barbara Lynn Williams	Elementary Education	--	El Ed
Walter Warren Woods	Biology	Psychology	H S

Bachelor of Science in Health and Physical Education

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
*Jerry Apodaca	Health & Physical Education	--	H&PE
Jerre Jo Cain	Health & Physical Education	Biology	H&PE
Clifford Allen Caster	Health & Physical Education	--	H&PE
Kenneth J. Elmore	Health & Physical Education	--	H&PE
Hal Arthur Finch	Health & Physical Education	--	H&PE
Mary Grace Hernandez Fink	Health & Physical Education	Recreation	H&PE
#Don James Franchini	Health & Physical Education	--	H&PE
Charles Wayne Gares	Health & Physical Education	--	H&PE

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF EDUCATION (continued)
Bachelor of Science in Health and Physical Education (continued)

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
Sonja Valerie Hanson	Health & Physical Education	--	H&PE
Marcia Jane Keeler	Health & Physical Education	Recreation	H&PE
#Chester Arthur Norris, Jr.	Health & Physical Education	--	H&PE
Manuel Grosco, Jr.	Health & Physical Education	--	H&PE
*James Thomas Pierce, Jr.	Health & Physical Education	--	H&PE
#Richard Anthony Rinaldi	Health & Physical Education	--	H&PE
Sharon Jo Roth	Health & Physical Education	Biology	H&PE
Martin Ralph Valdez	Health & Physical Education	--	H&PE
*Kenneth Herschel Varner	Health & Physical Education	--	H&PE
#James Coplan Williams, Jr.	Health & Physical Education	--	H&PE

Bachelor of Science in Industrial Arts Education

<u>Name</u>	<u>Major</u>	<u>Minor</u>	<u>Curric.</u>
Alfred Allen Bennett	Industrial Arts	--	Ind Arts
Rolland Lawrence Feight	Industrial Arts	--	Ind Arts
#James Clyde Rucker	Industrial Arts	--	Ind Arts
Walter Joel Walker	Industrial Arts	--	Ind Arts
Martin Joseph Wall	Industrial Arts	--	Ind Arts

COLLEGE OF FINE ARTS
Bachelor of Arts in Fine Arts

Diane Holmes

Bachelor of Fine Arts in Art

Joan Milbourne Acoya	Susan Faircloth Jackson
#Albert Barela	#Harold Francis Kavanagh
John Wiley Barefoot	Patricia June Booth Pena
#Katherine Martin Bennett	#Roland Clarence Pickens
Gail Hatchell Darrow	Rosina Lopez Short
Anna Sabina DelVento	Beverly Orr Stringer
Nick Evangelos	+ Esther Sacherson Sutin
Laura Nell MacDonald Hogg	Sue Carol Williams

Bachelor of Fine Arts in Dramatic Art

Myron Quimby Herrick	Harvey Jean Peterson
Thomas Harold McMullen	Joan Delores Stamm

+ With Distinction

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF FINE ARTS (continued)
Bachelor of Fine Arts in Music

Francis Benjamin Evans
Marilyn Austa Johnson
*Charles Joseph Selva
Emily Rebecca Taulman

Marilyn Janet Thomas
*Betty Dunlap VanDerck
Lawrence David Wheeler

COLLEGE OF PHARMACY
Bachelor of Science in Pharmacy

George Lester Baldwin
Nancy Woodruff Edwards
Lawrence Lavoy Foor
James Earl Lett
Baylis Nathaniel Lowrey, Jr.
Pete Julian Martinez

James Maurice O'Neill

Charles Webb Roberts
Raymond Anthony Sanchez
+ Robert Ted Standridge
Donald Elliot Weintraub

COLLEGE OF BUSINESS ADMINISTRATION
Bachelor of Business Administration

<u>Name</u>	<u>Concentration</u>
Charles Manley Allen	General Business
#Robert Leon Baker	General Business
*James H. Beers	General Business
Albert Rolfe Black	General Business
Wayne Eugene Brewer	Accounting
#Lorna Tarr Bridenstine	Accounting
Paul Richard Brown	General Business
Robert Harris Brown	Accounting
*Carrol Don Bryan	General Business
Gordon Keith Burton	Industrial Administration
#Vaughn McElwee Bush	Industrial Administration
#Buddie Gene Chappell	Finance
#William Montgomery Cleveland	General Business
Michael Vincent Connolly, Jr.	General Business
*Martin Jerome Dahlquist	General Business
Leroy William Drake	Accounting
Donald Ralph Ellis	Secretarial-Office Training
Carolyn Elaine Fabian	Industrial Administration
Melvin Lloyd Folweiler	Accounting
#Erlindo Olguin Garcia	

+ With Distinction

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF BUSINESS ADMINISTRATION (continued)
Bachelor of Business Administration (continued)

Name	Concentration
Pete Anthony Gonzales	Accounting
Bruce Robert Greenman	General Business
#Harrison John Gruschus	Accounting
William Francis Haines, Jr.	Accounting
George Earl Hamilton, Jr.	Industrial Administration
Francis George Higgins	Industrial Administration
Bradley William Huckabee	General Business
Clarence Lee Johnston	Accounting
Gordon Dale Jones	Accounting
#Robert Richard Kling	Industrial Administration
Jerry Lee Lewallen	Accounting
+ #Willard Eldon Lewis, Jr.	Accounting
Clark Wayne Manwarren	Industrial Administration
*Robert Edward McClenathan	General Business
Donald Wayne Miller	General Business
#Frederick Stanley Minshall, III	Marketing
*David Charles Morgan	General Business
#David Wagner Neuman	Marketing
+ Roy Linden Nials	Accounting
*George Stevenson Oates	General Business
James Rudolph O'Gwin	Industrial Administration
Charles Borromeo Quinn	General Business
Teddy Jackson Rhodes	Finance
*Carlos Raymond Robinson, Jr.	Industrial Administration
+ Sue Carol Robinson	Secretarial-Office Training
*Arthur Frank Roubik	General Business
Lloyd Vernon Royer, Jr.	General Business
Adolpho Bernal Saenz	General Business
Floyd Edward Siegel	Finance
James Richard Snedden	Industrial Administration
#Gordon S. Stevens	Industrial Administration
*Richard Dean Turner	General Business
George Joseph Unterberg	General Business
#Charles Austin Weaver, Jr.	General Business
Walter Ernest White, Jr.	General Business
#Boston Eugene Witt	Finance
Paul Charles Yrisarri	Marketing
Raymond Eugene Zimmer	Accounting

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

COLLEGE OF LAW
Bachelor of Laws

Marvin Baggett, Jr.
George Edgar Fettingner
John Philip Isaacs
Raymond E. Keithly
Philip Thomas Manly

Everette Herbert Qualls, Jr.
Rudolph Russell Rager
Fred Askren Watson
John Cottingham Worden

GRADUATE SCHOOL
Master of Arts

Name	Major
Americo Pinheiro Andrade	Elementary Education
John Archibeque	Spanish
Laura Stockdale Atkinson	Art Education
#Lorene Walker Auld	Secondary Education
Dennis C. Baca	School Administration
Roberta Jean Barnes	Guidance & Counseling
Marguerite Farnsworth Bell	Elementary Education
*Frank Joseph Biro	Government
#Gerald Joseph Boyle	Economics
*Frederick Sherwood Brown	Education
*Mary Noonan Burke	School Administration
Dolores Smith Butt	Speech
*Dona Gail Carlini	Art Education
Kenneth Lee Collier	Secondary Education
Jane Schädegg Cortella	Spanish
Marvin F. Daley	Psychology
*Donald Bertrand Davies	School Administration
Irvine Elwin Davis	Anthropology
Eileen Rogge DeDea	Secondary Education
Philip Bilse Dedrick	Art
#Dorothy Shinn Drake	School Administration
*Ross Eugene Easterling	School Administration
*Floyd Wesley Emanuel	Speech
Lena Exum	English
Felix Luciano Figueroa, Jr.	Spanish
*William Firschein	Art
Viva Bentley Fisk	English
*Murray Arnold Freeman	Secondary Education
#John Robert Gentz	Elementary Education
Charles Everett Frock	Secondary Education
*Peter Dennis Haikalis	Inter-American Affairs
*Ann Morgan Hilliard	Art
Agnes Therese Hinkley	English
*Marion Eugene Hodges	School Administration
Robert Allan Keller	Art
Kate Lesser Koelle	English
Leota Jean LaPaz	English

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

GRADUATE SCHOOL (continued)
Master of Arts (continued)

<u>Name</u>	<u>Major</u>
*Kenneth Emile LaPiante	Elementary Education
Donald Dean Leopard	History
*Frankie Maurice Lewis	Spanish
Pat Winfred Loyd	Secondary Education
#M. Janette Willis Lumpkins	Art
Jane Trow Luxford	Guidance & Counseling
William Macas	Spanish
Florence Ruth Katanick Marshall	Secondary Education
*Edward Anton Marinsek	School Administration
*Josue Leo Martinez	Secondary Education
#Donald Fred Mead	Psychology
Donald Mitchell Merrick	Art
Joyce Tomlinson Moeller	Art Education
Marguerite Regina Monk	Guidance & Counseling
Jose Nestor Montano	School Administration
*Delia Moya	Music Education
Arthur Francis Newfield	School Administration
Lorraine Kuhn Painter	Elementary Education
Carole Ann Potter	Art
*Jack Rexford Pribnow	Secondary Education
#Ernestine Liermann Prinkey	Art
Elias Nefie Quintana	Physical Education
Glenn Eugene Reeling	Guidance & Counseling
*William Joseph Rettko	School Administration
Vadis Gardner Rhoads	Secondary Education
#Robert Eugene Rhodes	English
Richard Earl Richards	Guidance & Counseling
*Jeanne L. Rivoire	Psychology
Milton Alan Rohane	History
Clarence Everett Rothgeb	School Administration
#Margaret Mae Runyan	Art
*Anthony Sanchez	School Administration
*Esmael B. Sanchez	School Administration
*Jesus Engene Sanchez	School Administration
J. Wesley Skilton	Guidance & Counseling
#William Davis Smith	School Administration
#Susan Williams Strange	Psychology
Donna Gail Sturtz	Physical Education
Eleanor Suggs	Art Education
#Harold LeRoy Sultemeier	Elementary Education
Elizabeth Baxter Thurston	Psychology
*Irving Dinsmore Townsend	School Administration
#Lawrence Dewitt Tuttle	Physical Education
#David Alan Wagner	Government
James Edward Walker	Guidance & Counseling
*Anthony John Witkowski	Physical Education
Richard Ase Yarnell	Anthropology

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

GRADUATE SCHOOL (continued)
Master of Science

<u>Name</u>	<u>Major</u>
Henry Oliver Ash	Geology
*Harold Mortimer Barnett	Electrical Engineering
Robert Theodore Barton	Physics
#Olga Salame Bendeck	Biology
Joseph Trivino Black, Jr.	Civil Engineering
Robert Irving Brasier	Mechanical Engineering
Angel A. Bravo	Civil Engineering
*Cecil Brininstool	Mathematics
Frank Bradley Collins	Civil Engineering
James Arlin Cooper	Electrical Engineering
Gene Michall Durbin	Physical Education
Kenneth James Ewing	Mechanical Engineering
John Frederick Fallis, Jr.	Geology
Francis Louis Fitter	Geology
Eugene Dale Fleharty	Biology
Robert Bennett Foster, Jr.	Physics
Albert C. Giere	Physics
Robert Breckenridge Glascock	Electrical Engineering
Patrick John Francis Gratton	Geology
#Constantine George Hadjidakis	Civil Engineering
Jerry Harbour	Geology
Daniel Clayton Harrington	Electrical Engineering
#Richard Augustin Heise	Biology
#Lora Belle Hughes	Biology
Osler Carl Hutson	Geology
Douglas Wright Kirkland	Geology
Milton Clifford Krupka	Chemistry
Kuo Shung Lee	Mechanical Engineering
William Wyatt Lee, Jr.	Electrical Engineering
Julian Thomas Lefler	Electrical Engineering
Darrel Henry Liston	Electrical Engineering
Bill Pertl Lovejoy	Geology
#Lawrence Kenneth Lustig	Geology
Walter W. Marshall	Biology
Lowell Paul Martin	Mechanical Engineering
Otis Merrit McRae	Geology
Robert Ordell Megard	Biology
Glenn Sterling Mills	Electrical Engineering
Owen Neil O'Leary	Civil Engineering
Robert Lee O'Nan	Electrical Engineering
Margaret Watson O'Neill	Biology
John Walter Peterson	Geology
Gareth La Verne Reed	Mechanical Engineering
Edgar Maclin Roby	Electrical Engineering
#Berna Emma Romero	Biology
#Joseph Oscar Roy	Physical Education

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.

GRADUATE SCHOOL (continued)
Master of Science (continued)

<u>Name</u>	<u>Major</u>
William Paul Stearns	Electrical Engineering
John Harold Tenbrink	Mechanical Engineering
Andrew Marion Torres	Biology
Jerry Robert West	Biology
Bruce Wilcox	Mechanical Engineering
*Gilbert Reynold Williamson	Civil Engineering
Lawrence Wolgin	Biology

Master of Business Administration

<u>Name</u>	<u>Major</u>
Robert Donald Clyde	Accounting
Frank Hilton Grubbs	Accounting
#Lowry Gribble Kinzer	Finance
#Eldardo Reyes Salcido	Business Administration

Master of Music Education

<u>Name</u>	<u>Major</u>
Lewis Kenneth Anderson, Jr.	Music Education
*Rea Alsup	Music Education
Saturnino Garcia, Jr.	Music Education

Doctor of Philosophy

<u>Name</u>	<u>Major</u>
#Jules Louis Adelfang	Chemistry
Frederick George Bohme	American Studies
*John Paul DaVanzo	Biology
*Herbert R. Dieterich, Jr.	American Studies
Robert Clark Euler	Anthropology
Juanita Smith Kytle	English
Robert Tor Lofberg	Chemistry
Julian Irving Palley	Spanish
Dorothea Thompson Powers	Spanish
Paul Matthew Reigstad	English
Chester Robert Richmond	Biology
Edward Sylvester Rogers	Anthropology
*Paul Lynn Schmunk	American Studies
Joseph Frederick Stampfer, Jr.	Chemistry
#Gary Lee Tate	English
Clarence Gerald Warren	Chemistry

*Finished requirements 1957 SS.
#Finished requirements Semester I, 1957-58.