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# The Relation of The Secondary School Majors and Minors To The Majors and Minors At The Collegiate Level.

Lewis Earl Naylor Fort Hays Kansas State College

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THE RELATION OF THE SECO DARY SCHOOL
MAJORS AND LINORS
TO THE
MAJORS AND LINORS
AT THE
COLLEGIATE LEVEL

being

A Thesis presented to The Graduate Faculty
of The Fort Hays Kansas State College
in partial fulfillment of the
requirements for the
Degree of Master
of Science
in
Education

by

Lewis Earl Naylor A.D. McPherson College 1921

Approved

July 23, 1942

Cobert M. Migrath

Olir. Grad. Council

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# TABLE OF CONTENTS

生,

CHAPTER	PAGE
I THE PROBLEM UNDER INVESTIGATION	1
(a) Introducing the Problem	1
(b) Statement of the Problem	
(c) Limitations of the Problem	
(d) Related Studies	
(e) Method of Investigation	
II EVOLUTION OF MAJORS AND MINORS	12
(a) Historical Background	
(b) Difficulties Involved	
(c) Scholastic Requirements	^
III MAJOR AND MIN OR RELATION SHIPS	28
(a) In Class "A" high schools	
(b) In Class "B" high schools	
(c) In Class "C" high schools	
IV CONCLUSIONS AND APPLICATIONS	50
(a) The Relations Found	
(b) The Educational Significance of the data	
(c) Conclusions	

# LIST OF FIGURES AND TABLES

Figure	Page
1. Major and Minor File Card	9
Tables .	
I. Major Combinations, Men Graduates,	
Class "A" High Schools	30
II. Summary. Men Graduates, Class "A"	
High Schools	31
III. Major Combinations, Women Graduates	
Class "A" High Schools	32
IV. Summary. Women Graduates Class "A"	
High Schools	33
V. Major Combinations, Men Graduates,	
Class "B" High Schools	34
VI. Summary. Men Graduates, Class "B"	
High Schools	35
VII. Summary. Women Graduates, Class "B"	
High Schools	35
VIII.Major Combinations, Women Graduates	
Class "B" High Schools	36
IX. Summary. Men Graduates, Class "C"	
High Schools	37
X. Summary. Men Graduates, Class "C"	
High Schools	38

# TABLES (Continued)

xi.	Summary. Women Graduates, Class "C"		
	High Schools	38	
XII.	Major Combinations, Women Graduates,		
	Class "C" High Schools	39	
XIII.	Minor Combinations, Men Graduates,		
	Class "A" High Schools	40	
XIV.	Summary. Men Graduates, Class "A"		
	High Schools	41	
xv.	Summary. Women Graduates, Class "A"		
	High Schools	41	
XVI.	Minor Combinations, Women Graduates,		
	Class "A" High Schools	42	
.II,VX	Minor Combinations, Men Graduates,		
	Class "B" High Schools	43	
XVIII.	Summary. Men Graduates, Class "B"		
	High Schools		
XIX.	Summary. Women Graduates, Class "B"		
	High Schools	44	
XX.	Minor Combinations, Women Graduates,		
	Class "B" High Schools	45	
XXI.	Minor Combinations, Men Graduates,		
	Class "C" High Schools	46	
XXII.	Summary. Men Graduates, Class "C"		
	High Schools	47	

# TABLES (Continued)

XXIII.	Summary. Women Graduates, Class "C"	
	Class "C" High Schools	47
XXIV.	Minor Combinations, Women Graduates,	
	Class "C" High Schools	48
XXV.	Final Summary. 300 Graduates,	
	Classes "A", "B", and "C" High Schools	49

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#### CHAPTER I

## THE PROBLEM UNDER INVESTIGATION

The preparation of the curricula for the high schools and the colleges of the State of Kansas has been an interesting development of the ideas of the schools and the legislative leaders. The problem has been one that was filled with many complications, determined, on the one hand, by the traditional philosophy that education must have disciplinary value, and on the other hand that the education must be of practical value when the student takes his place in the affairs of everyday life. In these curricula, the courses of study, the subjects, and the majors and minors were devised to give the student the type of learning necessary for advanced study and specialization in school life.

It may be stated with considerable certainty that the courses and the subjects comprising the curricula have been of great value to those who are graduated from high school and college. Statistics indicate that for the most part the graduates of these schools are better able to assume the responsibilities of the social and industrial institutions than the men and women who have not had these educational advantages.

Whether this efficiency might be due to the definite selection by the student of certain majors and minors at the secondary school level and then followed at the collegiate level by the selection of majors and minors of logical sequence has long been of interest to the writer. This interest led to the choice and study of the problem of this thesis, which may be specifically stated thus: what is, "The Sequential Relationship of Secondary School Majors and Minors to Collegiate Majors and Minors?" In other words did the collegiate majors and minors logically follow the majors and minors taken at the high school level in the high schools of Kansas?

The investigation is limited in that it does not include all secondary schools and colleges of Kansas, but only the records of three hundred graduates of The Fort Hays Kansas State College who likewise were graduates of Kansas high schools, during the decade of 1930 to 1940. One hundred graduates from each of the three classes of high schools were selected at random from scholastic records in the office of the Registrar of the state college at Hays. It was comparatively easy to determine the majors and minors at the secondary school level since these were indicated by units on the high school transscripts required by the college of freshmen.

At the college level it was a more difficult task to determine the majors and minors because they were recorded in hours rather than units.

The <u>Catalogue</u> of The Fort Hays Kansas State College for 1942 in reference to majors and minors and the degrees which it offers together with the requirements for the corresponding degrees carries the following statement:

"Two general types of curricula are offered, one emphasizing the arts and letters and leading to the degree of Bachelor of Arts (A.B.) and the other emphasizing the sciences as a method of broadening one's education and leading to the degree of Bachelor of Science (B.S.).

The degree of Bachelor of Arts is granted to those who complete a college curriculum.... with a major of at least 40 hours or a 30 hour major and a 20 hour minor as outlined by one of the college departments.

The Bachelor of Science degree is offered on the basis of 60 hours of fundamental sciences, ten of which in a different field from the major may be offered in place of the ten hours of foreign language requirement."(1)

The major and minor requirements for graduation from the secondary schools of Kansas are set forth in the

<sup>1.</sup> Fort Hays Kansas State College Catalogue (Hays, Kansas, Fort Hays Kansas State College, January 1942) pp 39.

The requirements as explained above determine that there are required for graduation from the high school two majors and two minors and also for graduation from the college the requirements are a major and a minor.

It follows that the "subject combinations" with which this thesis is concerned would have to consist of either two high school majors and a college major or two high school minors and a college minor. In order to determine the sequential relations of the above combinations the number of times each combination was selected by the students will be tabulated and percentages determined.

A check of the card catalogue and the <u>Bibliography</u> of <u>Research Studies</u> in <u>Education</u> in the College Library reveals few studies have been made that are related to the problem of this thesis.

In 1939, Reid, at The Fort Hays Kansas State College, made a thorough study of the relative achievement of students entering college from the three classes of high schools in the state of Kansas. As a basis for his investigation he used the scores made by 1224

<sup>2.</sup> Handbook on Organization and Practices for the Secondary Schools of Mansas. (Topeka, State Board of Education, 1939) pp 8.

freshmen in "Comprehensive Entrance Examinations".

These students came from 224 high schools during the years 1930-'31-'32-'33. Reid concluded:

"Considering the instruments of measure reliable, the 1224 students from 224 high schools a fair sampling, there is no appreciable difference in achievement among the pupils from the Class "A", Class "B", and Class "C" high schools in Kansas". (3)

While the above is Reid's conclusion in regard to the achievement of pupils at the collegiate level coming from the three classes of high schools previously mentioned, he also makes the following generalizations:

"No recommendations for changes in the organization or curriculum of the high schools of Kansas should be made since the coefficient of variation was so slight, and, that possibly other factors had a tendency to level the scholastic achievements of the pupils from the different classes of high schools". (3)

A second investigation was made by Burnham a graduate student at The University of Michigan in 1939. The problem of his thesis was to discover the relation of the students work after graduation to the

<sup>3.</sup> Reid, Edgar A., A Study of the Relative Achievement of the Pupils in Class "A", Class "B", and Class "C" high schools in the State of Kansas. (Master's Thesis, Fort Hays Kansas State College, Hays, Kansas, 1939) ap 45-45.

curriculum they followed in high schools. He carried out his investigation in the high schools of Plint, Michigan. Burnham's general conclusion follows:

"There is too little discretion used by the students in the selection of electives that would definitely transfer to the after school work of the pupils. However since the curricula committees of the Flint, Michigan, schools had made a determined effort to meet the local industrial needs by placing appropriate courses of study in the curriculum of the high schools there was an appreciable correlation of the high school course and the work followed by the students after high school." (4)

A third study was made in which the curriculum of the Commerce High School of Commerce, Oklahoma, was under investigation. The problem involved was whether the curriculum of The Commerce High School prepared its graduates any better for the work which they did after leaving school, than those who did not graduate but were listed as "drop-outs" on the school records. This study was made by Maybel J. Speaker as a master's thesis. Her general conclusion based on the data of the thesis was:

"This study shows the need for a program of correlating the school subjects with life situations and providing a well developed pupil activities schedule,

<sup>4.</sup> Burnham, Harry A., A Study of the Relations of the high school Curriculum followed by the Students and the work entered after Graduation from the high schools of Flint, Michigan. (Master's Thesis, University of Michigan, 1939)

vocational guidance, and the orientation of the pupil to, the possibilities of the school." (5)

The foregoing studies are indicative of the need for and the interest in a continual evaluation of the curricula, the courses of study, the subjects, and the majors and minors pursued by the students in the high schools and colleges in order to fit them to the needs of the students.

The data on the specific problem of this thesis were obtained from the scholastic records in the Registrar's office of The Fort Hays Kansas State College for the years of 1930 to 1940 inclusive.

In order to compile the data from the college transcripts it was necessary to devise a file card. On this file card was recorded the following information: the student's name, sex, name and location of the high school from which the student graduated, the classification of the high school, whether Class "A", Class "B", or Class "C", the date of graduation, and the major or minor subjects or courses taken at the high school level as well as at the college level.

This necessitated some 2400 entries on the file cards. From these file cards on which was recorded the

<sup>5.</sup> Speaker, Mabel J., Improving the Curriculum or the Commerce High School through a follow-up study of the Graduates and Drop-outs. (Master's Thesis of the Oklahoma Agricultural and Mechanical College, 1939).

high school majors and minors as well as the college majors and minors, there were tabulated all the possible major and minor combinations taken during both the high school and college careers of the students.

A copy of the file card which was used for the recording of the data in this study is given in Figure 1.

Major and	Minor File Card :
Name.	Sex. Class HS.
Name of HS.	Grad.HS.193 Col.193:
Majors	Minors
:HS.:	
:Co1:	*
0 0 0	

Figure 1.

The State Department of Education in its Handbook
on Organization and Practices for the Secondary Schools
of Kansas requires two majors and two minors for graduation from the high schools of the State. One of the
majors must be English. One of the minors must be

social science if it is not selected as one of the majors. (6)

It is clear from the handbook that English will be the first major in all the major combinations.

Each major combination will include two secondary majors and the major at the college level. The minor combinations will include the two secondary minors and the minor at the college level.

The major and minor combinations were arbitrarily placed on the summary tables in the following order:

(1) the combination with a history major or a history minor, (2) the combination with a mathematics major or a mathematics minor, (3) the combination with a commerce major or a commerce minor, (4) the combination with a science major or a science minor, (5) the combination with a language major or a language minor. There were a few combinations that did not fall in any of the above categories. They were listed last on the combination tables.

The specific technique employed to discover the correlation, or lack of it, between the student's high school and college major or minor combinations was as follows: (1) on each individual file card, as shown in Figure 1, there were indicated the high school majors as

<sup>6.</sup> Handbook on Organization and Practices for the Secondary Schools of Kansas. (Topeka, Kansas, The State Board of Education, 1939.) p 8.

well as the high school minors, (2) there was indicated the college major or the college minor.

From these data the major and minor combinations were set up and tabulated. The file cards were then arranged according to the sex of the student and the class of high school from which the student graduated. Separate tables were made for men and women in each class of high school. The high school and college major combinations with the number of cases or times that each major combination was selected as the combination of a student was carefully checked and recorded. This technique was repeated for the minor combinations also. Four tables were required for the graduates of each class of high school, as follows: a major and a minor table for the men and a major and a minor table for the women.

The interpretation of this paper depends largely upon the meaning of certain terms. In order to make clear the connotation of the following terms as they are employed in this thesis they are defined thus: subject, A single study, as American History in the field of history.

unit, A high school unit means five recitations per week

for thirty-six weeks in a subject requiring

preparation for the recitation.

course, A series of studies in a unified field of knowledge.

- curriculum, The whole body of courses offered in an educational institution.
- identity of major or minor combinations, herein interpretated to mean relation in the same field
  of knowledge, as American History to history
  in general.
- dissimilar, Major or minor combinations if not related in the same field of knowledge.
- major, A high school major consists of three units in the same field.
- minor, A high school minor consists of two units of work in the same field. "
- major, A college major consists of from thirty to forty hours of college work.
- minor, A college minor consists of twenty hours of college work.
- combination, is used to designate the high school majors or minors together with the college major or minor selected by the same student.

#### EVOLUTION OF MAJORS AND MINORS

The philosopher Herbart made the statement that. "Great moral energy is the result of broad views, and of whole unbroken masses of thought". (1) It is to be here noted that early in our educational thought there occurred the idea of fields of subject matter, but very little progress was made in organizing these fields until the beginning of the nineteenth century.

Cubberley in his History of Education, shows a chart portraying the development of the curriculum from the "Three R's" in the schools of 1775 to the schools of 1875 in which were taught groups of subjects in courses. including Reading, Literature, Mathematics, Commerce, History, Science, the Arts, and Physical Culture. (2)

In the progress of the evaluation of the school curricula an extensive program of studies developed

Cyclopedia of Education, by Paul Monroe, (New York: Macmillan Company, Vol. 3, 1912) p 251.
 Cubberley, Elwood P., The History of Education. (Boston, New York, Chicago: Houghton Mifflin Company.) p 756.

In this development there were added courses in Science, History, English, Language, Mathematics, Vocational and Art subjects. With the growth of the number and variety of the subjects the curriculum became far to extensive to be undertaken by any one student.

For a time with the introduction of new subjects, less and less time could be given to each subject, with the result that short courses were placed in the school programs and only a smattering of the subject matter of these courses was being obtained by the students.

The report of the Committee of Ten greatly emphasized the desirability of an intensive treatment of the subject matter. (3) Very rarely were any subjects dropped from the courses as a result of this report, and it followed that the number of the subjects was extended. This led to an enlarged curriculum in every high school and college. There was also manifested an increased interest by the pupils in the subjects of the extended curriculum.

Because of the changing attitudes towards subject matter, formal discipline, methods of teaching, and the curriculum in general there grew the idea of the

<sup>3.</sup> Monroe, Paul, The Report of The Committee of Ten. (Cyclopedia of Education, New York: Macmillan Company, Vol. III, 1912) p 251.

elective system. Under this system the student was granted the liberty to select his subjects in the line of his interests from the numerous offerings of the school. The elective system carried the matter of alternative subjects to the point of allowing the pupil, within the limits of the range of subjects presented by the school, and other inherent restrictions, substantially to make up his own course of study. (4) This was in theory, at least, approaching the philosophy of Herbart as previously stated.

Near the close of the nineteenth century and the first decade of the twentieth educational literature was filled with the discussions of the elective system. Educational conservatives feared that it meant a persistent discounting of the classics and mathematics. They apprehended a rapid development of the vocational subjects, and denied that the individual pupil had any capacity for self direction in the choice of a program of studies. In only a few schools did the theory of free election of subjects make much progress, where it did the graduation of the students was made to depend upon the accomplishment of a certain numbers of units of work.

<sup>4.</sup> Ibid. p 253.

From this point of view grew the philosophy that these units of work should consist of a definite number of units in a particular field. A unit of work was set at five recitation periods per week for the number of weeks the school was in session, usually thirty-six. For instance, in high school three units of work were required for a major and two units for a minor. The colleges also set up the unit of work designated as the hour. The hour being a recitation of an hour for the designated number of weeks. The majors in the collegiate field being approximately two times the number of hours as the minors. (5)

There is a great divergence between, states, counties, and cities in the means by which the courses of study are determined and the units of work prescribed in the courses. According to Monroe, Rhode Island requires nothing except temperance physiology for graduation, all other subjects being elective. In many states the "school law" or the state "Department of Education" makes definite requirements as to the amount of work to be done in the major and minor fields. (6)

<sup>5.</sup> Monroe, Walter S., Ed. Encyclopedia of Educational Research, (Chicago: The Macmillan Company, 1941) p 576.

<sup>6.</sup> Cyclopedia of Education, By Paul Monroe, (New York: The Macmillan Company, Vol. III, 1912) p 222.

In Kansas the state law requires a definite number of units and the State Board of Education certain majors and minors for graduation from high school. These will be treated in detail later in this chapter.

In the building of the curricula for the schools certain techniques are in use. These are expressed significantly by Rugg in one of his books, namely:

Culture and Education in America in which he names six steps that are involved in his "Principles of Curriculum Building". These steps are as follows:

(1) "The human experience is unified and continuous; there are no separate instincts, ends and means, character and conduct, motive and act, will and deed, all are continuous. (2) Knowing comes only through active response: meaning arises only through reaction. (3) Knowing rises through testing consequences. This is Dewey's concept of the "experimental method" of knowing. (4) Experience consists primarily in the adjustment and interrelation of individuals. (5) Society is conceived as a democracy. (6) The educational curriculum must be based on the above concepts and must give the individuals the relationships, the controls, and habits which will secure social changes without introducing disorders." (7)

The sociologist and the problems of society have been important factors in the building of the curriculum.

Also two schools of thought have influenced the process.

On the one hand, there were those who thought the function

<sup>7.</sup> Rugg, Harold, Culture and Education in America.
(New York: Harcourt Brace and Company, 1931) p 192 ff.

of the school was to "prepare for life" and those on the other hand who thought each school, whether elementary, secondary, or collegiate, was just a preparation for the next higher step in the educational ladder.

The curriculum has been much influenced by the particular social problems uppermost at the time in the minds of the people. Thus no technique used in developing this part of the school program can neglect the socializing influences that are affecting the lives of the individuals of the school society.

The social aspects of the problem of curriculum development has been the concern of educators also.

Caswell and Campbell in their book, Curriculum

Development, state:

"Confusion in American life can be accounted for largely by the fact that our material development has created social problems more rapidly than regulatory and educative agencies have been able to provide solutions.

Some lag in social adjustments to new material development is inevitable, for the varied consequences of material expansion cannot be anticipated with assurance. At the present time, however, material developments and possibilities are so far beyond our abilities to use them wisely, that we are paying a terrific price in life, health, and happiness for the resulting social maladjustments.

Inability of our schools to grapple successfully with the social fundamental inadequacies is the work of the regulatory and educative agencies. Continuation of these inadequacies carries with it consequences of increasing seriousness." (8)

The sociological problem presents a new technique to the development of the curriculum and the alternative to cumulative maladjustments is for the school to take a more aggressive part in dealing with the problem. A comprehensive educational program of well fitted and carefully selected subjects and courses must be developed to encompass the pressure of present living. Changes in the curricula must be anticipated and the school must have a greater part in the directing of the new developments. The forces of business and politics must not be permitted alone to determine the direction in which society shall move.

The supreme task for the school is to develop a program of studies that will meet the social needs of the day. The challenge to the school is of primary significance to curriculum making for it is through this avenue that the challenge must be largely met. This also infers an enlarged program of studies.

<sup>8.</sup> Caswell, Hollis L., and Campbell, Doak S., Curriculum Development. (New York, Chicago: American Book Company, 1935) p 221.

Charters maintains in his <u>Curiculum</u> Construction that:

"One would think that the profound chances in thou ht that followed the many revolutionary periods of the mast would be reflected in the school curricula at once. In practice, however, the changes have always been tardy. For instance, it would be expected, that, upon the wholesale acceptance of Christianity by the people of Lurope, the Quadrivium and the Trivium of the preek civilization would have given way to the books that more directly taught the Christian culture. True, there was some changes to the Catachetical and the Catechuminal schools but the old formalism radually gained the a cendancy." (9)

The above tendency was also noted in the menaissance, the Reformation, and the other reat periods of thought transformation. It seems that the school subjects did not necessarily change with the thought. Changes in the curriculum are always preceded by modifications in our conceptions of the aims of education. In the philosophy of Plato, Comenius, Rousseau, and others the ideal precedes the activity. This preliminary state ent of the aims of education is a prerequisite to the selection and use of the subjects in the courses which make up the curriculum.

To determine the content of the curriculum the aim of education must be stated in terms of ideals as well as in terms of activity. When the aim is stated in terms of ideals only, there is always a gap between the aim as stated and the curriculum derived from such a statement.

O. Charters, ..., Curriculum Construction, (lew Tork: The Lacmillan Company, 1924) p 3.

Then the activities are stated without the ideals which dominate them there are no means of selecting the proper methods of performing them. Thus the curriculum has been built as a fulfillment of the demands of the stated aims of education.

Association, during the past few years has made several tentative and partial reports relative to the standards pertaining to the reorganization of the secondary school curricula. The aims of the secondary education have been considered under two heads, (1) the ultimate coals toward which educational efforts have been directed; and (2) the specific and immediate aims as related to the selection of appropriate subject matter.

Four large aims have been outlined by this Comittee in terms of the development of the abilities and dispositions of the mapil as follows:

- a. Health, or the maintenance of health and physical fitness.
- b. Leisure, or the use of leisure in the right way.
- c. Vocations, or the successful en a e ent in vocational activities.
- d. Social activities, or the successful performance of activity in donestic, commity, and civic relations is. (10)

<sup>10.</sup> Clement, John A., Carriculum Labor in Secondary Schools. (New York: Henry Wolt and Company, 1925)

In addition to these general aims that must be considered in building the curricula and the selection of the subjects the Committee of Ten has made a statement of immediate aims in terms of the acquisition of knowledge, of the development of attitudes, of mental techniques, and of skills. These immediate aims are directly connected with the above named ultimate aims. The immediate aims are as follows:

a. Acquiring fruitful knowledge.

b. Development of attitudes, interests, motives, ideals, and appreciations.

c. Development of remory techniques in such process as percention, memory, and imagination.

d. cquiring right belits and useful slills in right living. (11)

outlined, the Consittee insists the tesk is to select the subject matter best suited to the realization of these respective aims. Several years age Ex-President Lliot of larvard stated that "Tradition still too larvely determines both the substance and the purpose of current education". (12)

The mistales of the past have lar ely been avoided in the building of the curricula by using the techniques that took cognizance of the definite aims and objectives

<sup>11.</sup> I id. p 144.

<sup>12.</sup> Ibid. p 179.

that have been evolved by the fore oing a encies.

The expanded offerings of the schools were the final products and from them the schools have developed the content subjects, the courses of study, and have built their curricula.

when the graduates of the high schools of lansas, in increasing numbers, continued their education by enrolling in the higher schools of learning it became apparent that there must be certain requirements for graduation in order to fit the pubils for a place in life, as well as, to meet the require ents for college entrance.

The constitution of the State of Tansas rales t'e following rovisions for execution:

Article VI, Sec. 2, Tarsas Constitution.

"The legislature shall encourage the promotion of intellectual, oral, scientific and a ricultural improvement, by establishing uniform system of common schools, and schools of higher rade, engracing normal, reportory, collegiate and university departments." (13)

The general statutes of Tansas provide for a State Department of Education and a State out of Education in which are vested certain powers.

<sup>13.</sup> cClenrey, eo. L., <u>Kansas School</u> <u>Laws</u>, <u>rev. 1939</u>. (Topeka, Lansas, State Department of Education, 1939) p 10.

"72-101" as follows:

"State Department of Iducation: The state superintendent of public instruction, the state pard of education, and the officers, and assistants authorized to be appointed shall constitute the state board of education."

172-1021

"Leetings; prescribing courses of study; issuing state teachers certificates. The state board shall meet at such times and places as may be determined by them and at the call of the state superintendent of public instruction. The board shall prescribe courses of study for the schools of the state, including the common or district schools, and the high schools; they shall also prepare a course of study for the normal institutes; and they shall revise the several courses of study when in their jud ment such revision is desirable. They shall have authority to make rules and regulations relating to the observance of the prescribed courses of study...... (14)

The State Toard of Education has used the authority given it by the Lansas State Legislature in setting up the organization of the high schools. In the Handbook on Organization and Practices for the Secondary Schools of Lansas are given the requirements for graduation from Lansas high schools. In order to simplify the problem of organizing a course of study for any high school student in Lansas, it is convenient to arrange the subject matter of the curriculum into eight groups

<sup>14.</sup> Corrick, Franklin, General Statutes of Lansas, 1939 (Topeka, The Larsas State Frinting Plant) 72-101, 72-102.

or departments of knowledge; namely, English,
Latheratics, Science, Social Science, Foreign Language,
Commercial Subjects, Arsic, and Arts.

An accredited high school must offer at least five of these groups, and no student should be permitted to graduate until he has successfully completed fifteen units of work selected according to the following plan:

### Requirements

- 1. Iwo majors of three units each.
  - a. list major, 3 units of in lish.
  - b. Second major, 3 units of one of remaining groups.
- 2. Two minors of two walts each.
  - a. First minor, 2 units of Social Science (unless it is elected as a second major.)
  - b. Second minor, 2 units from one of remaining roups.
- 3. One-half unit of Constitution of the United States.
- 4. One wit either of lathematics or a laborator science.
- 5. Remaining its may be selected from any one or wore of the eight rowns. (15)

The above statements show that the majors and minors have become a definite part of the requirements for raduation from the high schools of Larsas. This has been due to legislative enact ent in Larsas and in a large measure to the provisions of the State Loard of Education.

<sup>15.</sup> Handbook on Organization and Practices for the Secondary Schools of Lansas. (Topeka, Tarsas, State Doard of Education, 1939) pp 2-9.

The entrance requirements, as listed in the <u>latalogue</u> of The Fort Mars Mansas State College, for 1941-42, clearly reflect the emphasis placed upon major and minor requirements and also the scholastic ratings of the student of the present time. The state requirements are iven for admission:

"Admission by certificate from accredited lansas Hi h Schools: The requirements for admission of radvates of Fansas high schools to The Fort Mays Marss State Colle e have been fixed by legislative enactment, which by section 72-104, evise Statutes of 1 23. rovides that: any person who shall complete a four-year course of study in any high school accredited by the State Loars of Education shall be entitled to admission to the fresh an class of the State Universit, the State A ricelture Collete, or an of the State Teacher's colle es, on resentin a state ent containing a transcript of his hill school record, si ned by the rrinci al of the school, and certifying that such person has satisfactorily completed said course of study." (16)

It follows that the major and minor requirements of the Tansas State Loard of Indication for graduation from the high schools of the State of Tansas. The same catalogue also gives the major and minor requirements and the scholastic grade point requirements for the degrees of undergraduate rank as follows:

<sup>16.</sup> Fort as ansas State College Bulletin, (las, ansas: Fort as Kansas State College, 141-42) p 28.

The de ree of Lachelor of Arts is ranted to those who complete a college curriculum in conformity with the requilations....., with a major of at least forty hours or a thiry-hour major and a twenty-hour minor as outlined by one of the college departments. ... The machelor of Science degree is offered as the basis of sixty hours of fundamental sciences, ten of which, in a different field from the major, may be offered in place of the ten hours of foreign language requirements. (17)

This same catalogue lists the following scholastic requirements:

"Admission to unper division standing."

(1). A student woo has made a rate point index of at least 1 may be admitted to uner division standing and the opportunity to make a major curriculum leadant to a de ree.

(2). A student who has achieve a grade point of at least 1.70 may be abitted to unper-division standard with the opportunit to pursue a lajor curriculum leading to a degree and in addition may be a little to independent study rivileges in these departments, providing such orl.

(3). A student whose desire has been only to nursue certain courses or whose scholastic index does not qualify him for upper division standard may on application receive a certificate of his stay-four lors or lower-division credit. (11)

It is to be noted from the foregoin facts that these requirements are a part of a well planned program for the high schools as well as the colleges. It is also to be

<sup>17. &</sup>lt;u>Ibid</u>. p 41 18. <u>Ibid</u>. p 41

observed that the State Board of Education has talen a leading role in the setting up of these standards for the schools.

#### CHAPTLE III

## AJOR ALD AD OR RELATIONS IPS

The tables and the summaries which according them are the compilation of the data from the file cards used in recording the factual material for the problem of this thesis. The records in the legistrar's office of the Fort as Eansas State College were used to obtain these data.

The tables which rollow are designed in such a way as to show the relationship, or lack of it, between more and minors at the secondary school level and majors and minors at the college level.

The organization of these data features this relationship for men and women separately as found in the three classes of high schools in the State of Lansas. Each table shows, first, the high school bi-major combination, second, the college agor and, third, the number of cases or times in which a particular secondary-college major combination was chosen at the college level.

It should be further stated that the principle used in determining the relationship of the college major to the high school majors was that of identity as defined in chapter I. That is, if the high school major

were English-History as shown in the first eleven cases in Table I and the college major in relation to these eleven cases were History, then this relationship was regarded as positive or identical. If the college major were some other than English or History it was regarded as negative or dissimilar. In other words identical is the term applied to the relationship when any two were in the same field of subject matter.

It is to be observed that in every high school major combination English appears as one of the majors because it is required by the State Board of Education. The other high school major may be elected by the student under the restrictions given in Chapter II.

In the tables which present the high school-college "minor" relationships there is not the degree of constancy as in the case of the majors. This is because the student is not so rigidly restricted in the selection of his minor or his minors. The identity of relationship was also the principle used in determining the relationships in dealing with the minors.

The tables with their summaries depicting the minor relationships will succeed the major tables in this chapter.

Table I

NEN	GRADUATES	OF CLASS "A"	HIGH SCHOOLS
D D		Major	
: Cases		H.S.	Col. :
7	First 1	dajor Combina Eng-Hist	itions :
6 1		Eng-Hist Eng-Hist Eng-Hist	Sci Eng Ind A
3 2	Second	Major Combin Eng-Math Eng-Math	4
2 2 2 1	Third I	Major Combina Eng-Com Eng-Com Eng-Com Eng-Com	tions  Hist  Com  Sci  Eng
7 2 2 2 1	Fourth	Major Combin Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci	nations Sci Hist Math Bus Ad Eng
$\frac{1}{42}$	Fifth Dases	Major Combina Eng-Lang	itions Eng

Table II

SUMMARY, MEN	GRADUATES,	CLA	SS "A" ]	HIGH	SCHOOLS
. N	Major Combi	nati	ons		
Group No.	Cases	:	Iden.	:	Disc
I I I	15		8		7
II	5		2		3
III	7		3		4
IV	14		8		6
V	. 1		1		0
Totals	42	-	22		20
Per Cents	100%		52.3%		57.7%

Table II is a summary. It is a compilation of the data of men graduates from Class "A" high schools as presented previously in Table I. The table is read in the following manner: Beginning at the Top of the column at the left and reading across the page, in group I there were 15 cases or students, 8 of whom selected identical combinations at the college level in relation to the high school bi-major group and there were 7 of the 28 who selected dissimilar combinations.

The next or second line of the table as well as the succeeding lines are read in similar manner.

The total number of cases is 42 in which identity of selection appears 22 times and dissimilar 20 times.

In other words 52.3% of the men in Class "A" high schools chose identical majors and 57.7% dissimilar.

Table III

WOMEN	GRADUATES OF CLASS "A" HIGH Majors	SCHOOLS
Cases	H.S.:	Col. :
10 7 5 1	First Major Combinations Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist	Eng Music H Ec Sci Hist
	Second Major Combinations (None)	5
3 3 2 1	Third Major Combinations  Eng-Com  Eng-Com  Eng-Com  Eng-Com	H Ec Music Bus Adm Soc Sci Psych
8 2 2 1 1	Fourth Major Combinations Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci	Eng H Ec Educ Hist Com Health
2 1	Fifth Major Combinations Eng-Lang Eng-Lang Eng-Lang Eng-Lang	H Ec Bus Adm: Music Psych
1 1 1 58 Ca	Sixth Major Combinations Eng-H Ec Eng-H Ec Eng-N Tr	Eng Music H Ec

Table IV

A STUMARY. WOME	N GRADUAT	ES, C	LASS "A"	HIGH SCHOOLS	_			
•	Major Combinations							
Foroup No.	Cases	*	Iden.	: Dis.	-			
II (No Cas	24		11	13				
: III	10		2	8				
: IV	16 5		0	8 5				
VI Totals	3 58		1 22	2 36				
:								
Per cent	100%		37.9%	62.1%				

Table IV is a summary. It is a compilation of the data of women graduates of Class "A" high schools as presented previously in Table III. The table is read in the following manner: Beginning at the fop of the column at the left and reading across the page, in group I there were 24 cases or students, ll of whom selected identical combinations at the college level in relation to the high school bi-major group and there were 13 of the 24 who selected dissimilar combinations.

The next or second line of the table as well as the succeeding lines are read in similar manner.

The total number of cases is 58 in which identity of selection appears 22 times and dissimilar 36 times.

In other words 37.9% of the women in Class "A" high schools chose identical majors and 62.1% chose dissimilar.

Table V.

MEN	GRADUATES	OF	CTASS	HRH	HIGH	SCHOOLS
deline.	GILADURILDO	UF	CLIMICO	.10	HLUI	DUTUULID

MEN	GRADUATES	OF CLASS	"B" HIGH	SCHOOLS
: Case	S , in	H.S.	Majors	Col.
5 4 4 3		ajor Combi Eng-Hist Eng-Hist Eng-Hist	t t	Sci Hist Ind A Com
2 1	Second 1	Major Comb Eng-Matl Eng-Matl Eng-Matl	n n	Math Hist Ind A
: 2 : 1 : 1 : 1	Third M	ajor Combi Eng-Com Eng-Com Eng-Com Eng-Com	inations	Ind A Hist Sci Bus Adm
14 3 2 1	Fourth 1	Major Com Eng-Sci Eng-Sci Eng-Sci Eng-Sci	pinations	Sci Ind A Hist Eng
1	Fifth Ma	ajor Combi Eng-Lang		Eng :
<u>2</u> 50	Sixth Ma	ajor Combi Eng-Ind		Ind A

Table VI

SUMMARY. MEN	GRADUATES	CLASS	"B"	HIGH	SCHOOLS
	Major (	Combina	ation	S	
:Group No.	: Cases		Iden	. :	Dis.:
:	16	ب	4		12:
: II	4		2		2:
: III	6		1		5:
: IV	205		15		. 5:
: V	1		1		0 :
: VI	3		2		1:
: Totals	50		25		25 :
Per cents	100%		50%		50%

This table VI is a summary of the data found in Table V. The table is read in a manner and according to the explanation as in tables II and IV on page 32 and 34. From this point on the legends will be omitted from the major and minor combination tables whenever and wherever similar summary tables appear.

Table VII

SUMMARY.	WOMEN	GRADUATE	S, CLASS	"B"	HIGH	SCHOOL	S
		,				To the same	
	Ma	jor Comb	inations				
:Group No	. :	Cases	: Ider	1.	: D	is. :	
: I		31	13	,		18 :	
: II (1	lo Case	s)				9	9
: III		4	3			1:	
: IV		13	6			7 :	2
: V		2	1			1 :	
: Totals	W. L. H. W.	50	23			27 :	
Per Cer	nts	100%	46%	2		54%	

Table VII is a summary of the data found in Table VIII.

Table VIII

MOMEN	GRADUATES			H SCHOOLS
Cases		H.S.	jors	Col
7 64 4 3 3 2 2 2	First M	ajor Comb Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist	inations	Hist Eng H Ec Educ Music Bus Ad: Math
2 . 1		Major Com (None) ajor Comb Eng-Com Eng-Com		
2 2 1 1 1	Fourth	Major Com Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci	bination	Eng Bus Ad: H Ec Hist Educ Phys Ed:
1 1 50 Cs	Fifth M	ajor Comb Eng-Lang Eng-Lang		Lang : Sci :

I WEN	GRADUATES	OF CLASS "	c" Migh	SCHOOLS
	:	Majo:	rs	
: Cases		H.S.		Col. :
11 4 3 3 2 2 2	First M	ajor Combin Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist	nation	Hist Ind. A Sci Bus Ad Math Econ Music Jour
1 1 1	Second	Major Comb Eng-Math Eng-Math Eng-Math	ination	Math Sci Psych
2 1 1 1	Third M	ajor Combin Eng-Com Eng-Com Eng-Com Eng-Com	nation	Com Agric Chem Music
6 2 2 2 1 1	Fourth 1	Major Combi Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci	ination	Sci Hist Math Com Ind. A
3 1	Fifth M	ajor Combin Eng-Lang Eng-Lang	nation	Lang :
2	Sixth Ma	ajor Combin Eng-Ind.	Ą	Bus Ad Sci
57 C	ases			

Table X

SUMMARY. MEN	RADUATES,	CLASS "C" H	IIGH	SCHOOL.
•	Major Comb	oinations		
Group. No. 12	00000	" Iden.	-8	Dis.
; I	28 .	11		17:
: II	3	1		2:
: III	5	2		3:
: IV	14`	0	,	14 :
: V	4	3		1 :
: VI	3	. 0		3:
Totals	57	17		40:
Per cents	100%	29.8%		70.%

Table X is a summary of the data found in Table IX.

Table XI

*						
SUMMARY. V	vonen (	GRADUATES	, CLA	SS "C"	HIGH	SCHOOLS
:	Th et a	ion Comb				
*	171.5	ajor Comb	Inaci	ons		
Totone No.	2	Cases	:	Iden.		Dis.
M. T. D.		. 26		10		16
: II		1		0		1 :
: III		2		•		2 :
: IV		13		5		8 :
: V		1		0		1 :
: Totals		43		15		28 :
Per cent	3	100%		37.2%		62.8%
			N. A.			6

Table XI is a summary of the data found in Table XII.

Table XII

WOMEN	GRADUATES	OF CLASS "Majo		SCHOOLS .
: Cases	:	H.S.	:	Col. :
5 5 5 3 3 2 2	First M	ajor Combin Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist Eng-Hist	ation	Hist Eng Educ Bus Ad Music Phys Ed H Ec Math
1	Second	Major Combi Eng-Math	nation	H Ec
1 1	Third M	ajor Combin Eng-Com Eng-Com	ation	Com Psych
4 3 2 2 2 2	Fourth	Major Combi Eng-Sci Eng-Sci Eng-Sci Eng-Sci Eng-Sci	nation	Bus Ad Sci Eng Psych Music
1 43, Cases		roup Combin	ation	Health

# Table XIII

MEN GRADUATES OF CLASS "A"	HIGH	SCHOOLS
----------------------------	------	---------

MEN	GRADUATES		"A" HIGH	SCHOOLS
	•	M	inors	
. Cases	A .	H.S.		Col.
:	· · · · · · · · · · · · · · · · · · ·			
:	First N	linor Com	binations	
: 5		Hist-Sc	i	Sci :
: 3		Hist-Ma		Hist
: 3		Hist-Ma		Sci
: 2		Hist-Ma		Math
: 2		Hist-Co		Eng
: 2		Hist-Sc		Jour
: 2		. Hist-La		Sci
: 1		Hist-Co	m.	Sci
:				
<u>.</u>	Second		mbination	
: 4		Math-In Math-Sc		Sci Sci
: 3		Math-Sc		Ind A
2 : 1 : 1		Math-Sc		Bus Ad
• 7		Math-La		Eng
: 1		Math-La		Math
• <u>-</u> L		ma on wa	6	MIG 011
ø	Third N	dinor Com	binations	*
2		Com-Sci		Com
: 2		Com-Eng		Music
: 2		Com-Ind	A	Bus Ad
:				
6 0	Fourth		mbination	
: 3		Sci-Ind		Sci
: 1		Sci-Ind	A	Bus Ad
: 42 Cas	es			
3				

Table XIV

-	SUMMARY.	MEN	GRADUATES	, CI	ASS #	" HIGH	SCHOOLS
:			Minor Com	oina	tions		
*	Chann No				T-3		703 -
*	Group No.		Cases 20	- A- J	Iden		Dis. :
	II		12		3		9 :
9 9	III		6		4		2
The second	Totals	1	42	1, ,	20	, 27, 3 	22 :
0 0 0	Per cents	3	100%		47.6	3%	52.4%

Table XIV is a summary of the data found in minor combination Table XIII.

Table XV

SUMMARY. WOMEN	GRADUATES,	CLASS "A"	HIGH SCHOOLS
	Minor Comb	inations	
:Group No. :	Cases	: Iden.	: Dis.
: I	16	5	11:
: II	23	1	22 :
: III	3	1	2:
: IV	13	6	7:
· V	3	0	3 :
: Totals	58	10	45 :
Per cents	100%	22.4%	77.6%

Table XV is a summary of the data found in minor combination Table XVI.

Table XVI

WOMEN	GRADUATES	OF CLASS "	A" HIGH	SCHOOLS.	
:		Min	ors		:
: Cases		H.S.	:	Col.	;
4 2 1 1 1	First	Minor Combine Hist-Math Hist-Sci Hist-Math Hist-Math Hist-Sci Hist-Sci Hist-Lang		Hist Eng Bus Ad Sci Com Psych Eng H Ec Eng	
4 4 3 2 2 2 2 2 2 1	Se c on d	Minor Comb Math-Sci Math-H Ec Math-Sci Math-Sci Math-Com Math-Com Math-H Ec Math-Lang Math-H Ec Math-Sci	test own	Hist Eng Sci Bus Ad Art Eng Eng H Ec Hist Sci	
2	' Third	Minor Combi Com-Lang Com-Math	nations	Eng Bus Ad	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3 2 2 3 3	Fourt	n Minor Comb Sci-Lang Sci-Lang Sci-Lang Sci-H Ec Sci-H Ec	inations	Lang Hist Psych Eng H Ec	0
		Minor Combi Lang-H Ec		Hist	***
, oo oas	.00				ü

RITA	GRADUATES	STE	ATAGE	M Tall	Trungt	COMMOTE	
The Lates	GITALULATED	ULL	COMMIN	13	II IL III	DULLUULD	

N. HIN	GRADUATES		nors	iounorp
: Cases	W21	H.S.		Col. :
10 5 3 2 1 1 1 1	First I	Minor Combin Hist-Sci Hist-Math Hist-Math Hist-Com Hist-Math Hist-Math Hist-Math Hist-Sci Hist-Sci Hist-Sci Hist-Com Hist-Eng	ations	Sci Hist Ind A Eng Eng Nath Phys Ed Eng Ind A Phys Ed Pub Spk Sci
6 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Second	Minor Combinath-Sci Math-Lang Math-Ind / Math-Sci Math-Sci Math-Lang Math-Ind / Math-Ind /		Sci Hist Hist Hist Ind A Sci Eng Phys Ed
1	Third:	Minor Combir Com-Sci · Com-Lang	nations	Hist Sci
3	Fourth	Minor Combi Sci-Math	nations	Sci
1 1 : 50 Case:		Minor Combir Ind A-Matl Ind A-Lang	1	Ind A Eng

Table XVIII

SUMMARY.	MEN GRADUATES,	CLASS "B"	HIGH	SCHOOLS
	Minor Combi	inations		
Environ.				:
Group No.	: Cases :	Iden.	:	Dis. :
AI	28	14		14 :
: II	15	7		8:
: III	2	0		2:
: IV	3	3		0:
: 7	2	1		1 :
: Totals	50	25		25
Per cent	s 100%	50%		50%

Table XVIII is a summary of the data found in Table XVII.

Table XIX

SUMMARY.	WOMEN GRADI	JATES,	CLASS "B	" HIGH	SCHOOLS
	Minor	Combin	nations		
Group No.	: Cases	:	Iden.	: ]	Dis. :
W I	11		5		6 :
: III	18		2.		14 :
: IV	15		7		8:
: Totals	50	2.	18		32 :
Per cen	ts 100%		36%		64%

Table XIX is a summary of the data found in Table XX.

Table XX

WONEN	GRADUATES	OF CLASS	"B"	HIGH	SCHOOLS
	u 4			2022	

WOMEN	GRADUATES	OF CLASS		SCHOOLS
:	4		-Minors	•
:Cases		H.S.		Col. :
5 2 2	First l	Minor Comb Hist-Mat Hist-Mat Hist-Mat Hist-Lan	h h h h	Hist Sci Dus Ad Eng Eng
4 3 2 2 2 1 1 1	Second	Minor Com Math-Sci Math-Lan Math-Sci Math-Sci Math-Sci Math-Lan Math-Lan Math-H E		Eng Lang Hist Sci Lang Sci Math Hist Hist HEC
	Third	Minor Comb Com-Math Com-Com Com-Sci Com-H Ec Com-H Ec		Math Sci Psych Bus Ad H Ec Hist
5 2 2 1 1 1 1 1 50 Case		Minor Con Sci-Lang Sci-Math Sci-Math Sci-Math Sci-Math Sci-Com Sci-Lang Sci-H Ed		Lang Eng Fsych Hist Sci Dus Ad Bus Ad Art Bus Ad

Table XXI

MONT.	GRADUATES	OTA	CTARS	HOW	NTCH	SCHOOLS	
A SECRETARIAN	CREATING OF THE PROPERTY OF		CALLAND CALL		E1 -1-1-2-E3	EDITATION OF THE STATE OF THE S	

MEN G	RADUATES OF CLASS "C" HIGH SCH	OOLS
	Minors	
Cases	: N.S.	Col. :
	The made Million and Classical and and	
:	First Minor Combinations Hist-Math	Hist
6	Hist-Math	Sci :
4	Hist-Sci	Hist :
. 7	Hist-Lang	Math :
1	Hist-Math	Math :
1 1	Mst-Math	Ind A :
2 1 1 1	Hist-Wath	Em :
1	Hist-Sci	Musio:
ī	Hist-Com	Ind A:
i	Hist-Lang	Bus Ad:
1	Hist-Lang	list :
i	Hist-Ind A	Socio :
		2
	Second Minor Combinations	1
. 4	Math-Sci	Math:
1 1	Math-Sci	Hiat :
1 1	Natl-Sci	Dus Ad:
1	Math-Ind A	Hist:
:	Couldness day	
	Third Minor Combinations Com-Math	Sci
1	COM-Wacii	hiji Clah
	Fourth Minor Combinations	
7	Sci-Wath	Soi :
	Sci-Com	Soi :
2 1 1 1 1	Sci-Ind A	Soi :
i i	Sci-Math	Hist:
i	Sci-Math	Phys Ed:
: ī	Sci-Lang	Psych :
i	Sci-Ind A	Bus Ad:
		1
2	Fifth Minor Combinations	724
; 1	Lang-Math	lang :
1	Lang-Math	Sci :
:	Sixth Minor Combinations	
	Ind A	Math:
1 1	Tim V	1
FV Cose	S	
:A1-X855		

Table XXII

SUMMARY.	MEN GRADUATES	S, CLASS "C"	HIGH SCHOOLS
:	Minor Comb	oinations	
Group No.	Gases	Iden.	Dis.
: I	30	15	15 :
: II	7	4	3 :
: TA	16	12	4
:	2	O	2:
: VI	1	_ 0	1:
1 Potals	57	31	26
Per cents	100%	54.3%	45.7%

Table XXII is a summary of the data found in Table XXI.

Table XXIII

SUMMARY. V	NOMEN	GRADUATES,	CLA	SS "C"	HIGH	SCHOOLS
•		Minor Comb	inat	ions		
Group No.	g 0	Cases	:	Iden.	:	Dis.
: I		18		12		6
: II		6		0		6
: III		1		0		1
: IV		12		2		10
: V		6		0		6
: Totals		6 43	Year	14		29
Per Cent	ts	100%		32.5	6	67.5%
:						

Table XXIII is a summary of the data found in Table XXIV.

Table XXIV

WOMEN	GRADUATE	S OF CLASS	'C" HIGH	SCHOOLS
Cases			ors	:
· Oasos	1000	H.S.		Col. :
4 4 3 2 1 1 1	First	Minor Combin Hist-Math Hist-Com Hist-Math Hist-Sci Hist-Math Hist-Sci Hist-Eng Hist-H Ec Hist-H Ec	nations	Lang Hist Hist Hist Math Pub Spk Hist Psych Hist
3 1 1 1	Second	Minor Combi Math-Sci Math-Lang Math-Lang Math-Lang	nations	Eng Hist Music Art
1	Third :	Minor Combin Com-H Ec	ations	Hist :
5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fourth	Minor Combi Sci-Math Sci-Lang Sci-Math Sci-Eng Sci-Math Sci-Math Sci-Com	nations	Lang Math Sci Psych Hist Art H Ec Eng
2 2 1 1 43 Cases	Fifth 1	Minor Combin Lang-Math Lang-Com Lang-Math Lang-Math	ations	Eng Music Hist Phys Ed

Table XXV
Final Summary of

300	GRADUATES.	CLASSES	"AII	ngn.	AN D	"C"	HIGH	SCHOOLS
-----	------------	---------	------	------	------	-----	------	---------

	Class "A"	High Schools	
Graduates: 42 men 42 men Average, m	Major Minor	: Identical 52.3% 47.6 . 49.95	Dissimilar 47.7% 52.4 50.05
58 women 58 women Average, w	Minor	37.9 22.4 30.2	62.1 77.6 69.8
Average, m	nen and women	40.05	59.95
•	Class "B"	High Schools	1896
50 men 50 men Average, m	Minor	50 50 50	50 50 50
50 women 50 women Average, w	Minor	46 36 41	54 64 59
Average, n	nen and women	45.5	54.5
0	Class "C"	High Schools	
57 men 57 men Average, n		29.8 54.3 42.05	70.2 45.7 57.95
43 women 43 women Average, w	. Minor	37.2 32.2 34.7	62.8 67.8 65.3
Class	ses "A", "B",	and "C" High Scho	ols
149 men, avera 151 women, ave 300 men and wo	rage selectio		52.67 64.7
500 men and we	selectio	n 41.31	58.68

## CHAPTER IV

#### CONCLUSIONS AND APPLICATIONS

In this the closing chapter the author presents the conclusions and applications to the problem of thesis as stated in the introduction.

As far as the writer has been able to ascertain this is the first study of this particular problem for a master's thesis undertaken on this campus. It has been an interesting study and the author believes that certain results have been realized. It was not even hoped that this would be an exhaustive investigation of the subject and, since, many related aspects of the problem have arisen during the study the writer will have a continued interest in the significance of the majors and minors in the curricula of the high schools and colleges of the State of Kansas

The tables of the preceding chapter were prepared to indicate the findings and to show in tabulated form the facts gathered from the data prepared for this thesis. The material presented in Table XXV is a final summarization of the major and minor combinations with the per cent of identical and dissimilar

selections by the three hundred graduates of Class "A", Class "B", and Class "C" high schools in the State of Kansas.

The objective of this thesis as stated in the introduction is to discover,

"The Relation of the Secondary School Majors and Minors to the Majors and Minors at the Collegiate Level."

The curricula and the establishment of the majors and minors of the courses of study have been the result of years of time and effort. The purpose has been to direct the students in the election of combinations that were helpful in the preparation for life and its problems. Because of the evident intention of both the student and the school to select majors and minors that were interrelated it would be expected that there would be a definite continuation of the combinations at the college level as were pursued in the high school.

The data supporting the objective of this study as given in the final summary table XXV indicates that the selection of identical combinations is 41.3% of the total combinations. The class "C" high school graduates show the lowest average of 38.37% of identical combinations, the class "A" graduates

the next highest with an average of 40.05%, and the class "B" graduates the highest average of 45.5%.

It is to be noted that in each of the three classes of high schools that the men selected a greater per cent of identical combinations than the women. The average of identical selections of the men varied from 42.8% in the Class "C" high schools to 50% in the Class "B" high schools. The identical selections of the women varied from 30.2% in the Class "A" high schools to 41% in the Class "B" high schools.

The author does not think it is in the province of this thesis to present specific recommendations or solutions for the problems implied herein, but the implications impel him to make the following statements:

The curricula of the schools, especially at the high school level, are unlimited fields of service for those who are interested in correlating the courses in the fields of learning.

Pupil guidance in the high school will materially assist the pupils in the selection of major and minor combinations most valuable for their fluture educational development.

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