1979

A Guide to Programs in Industrial Education Offering Masters Degrees

Philip Joseph Jenks

Eastern Illinois University

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A Guide to Programs in Industrial Education

Offering Masters Degrees.

BY

Philip Joseph Jenks

THESIS

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF Master of Science in Education IN THE GRADUATE SCHOOL, EASTERN ILLINOIS UNIVERSITY CHARLESTON, ILLINOIS

1979

YEAR

I HEREBY RECOMMEND THIS THESIS BE ACCEPTED AS FULFILLING THIS PART OF THE GRADUATE DEGREE CITED ABOVE

8/3/79

DATE

ADVISER

8/3/79

DATE

DEPARTMENT HEAD
ABSTRACT

A need existed for a readily available source of information concerning masters programs in industrial education. There was a definite lack of information concerning the types of programs, types of degrees, philosophical bases, discipline bases, objectives, admission requirements, and the financial assistance available. The problem of the study was to develop an organized and current source of information for the prospective graduate student in the process of selecting a masters program.

A literature review was conducted to gather information that could be utilized when:

(1) Compiling information about the various masters programs in industrial education.

(2) Developing a questionnaire to collect data about masters programs in industrial education.

(3) Formulating the data into an information guide about masters programs in industrial education.

With information revealed in the literature review, a questionnaire was developed around four broad topics, these topics are:

(1) General information about the institutions
(1) Information about personnel such as name, graduate coordinator, etc.

(2) Information about the program such as discipline base, objectives, etc.

(3) Information concerning the process of being admitted to the program and the formal evaluation process that follows.

(4) Financial information which includes all fees and the financial assistance available.

The questionnaire was distributed of one hundred seventy-nine institutions listed in the Industrial Teacher Education Directory, (Dennis, 1978) as offering masters degrees in industrial education. Eighty-one percent of the questionnaires mailed were returned and seventy-five percent were utilized as a source of information in this study.

The returned data was formulated into an information guide which is included in the appendix of the thesis. An analysis of data was conducted to provide persons interested in industrial education master degree programs with a source of information to compare and contrast the philosophical similarities and differences of the responding institutions. As part of a second review of literature a historical perspective of industrial education masters programs is also included in the research.
PREFACE

This thesis is the result of the need of a unified source of information concerning all masters programs in industrial education. It originated after the author had already been through the process of trying to decide which masters program would best suit his long and short range goals. It was through this search for information that the author concluded that a guide to masters programs would be helpful in the future for prospective masters students trying to compare masters programs in industrial education.

The following research represents the process used by the author for gathering information about masters programs in industrial education, which could be used as a guide to compare the various programs in industrial education. The resulting research, and the use of it can provide information to help the prospective graduate student make a wise choice in selecting a masters program.
ACKNOWLEDGEMENTS

This thesis, and the research represented in it is the result of contributions by many persons. The author would like to express his sincere thanks to the members of his thesis committee: Dr. Richard E. Kleine, Dr. John T. North, Dr. Donald P. Lauda, and to my thesis advisor, Dr. John R. Wright.

A special thank you is in order to my parents, their continued support, and to my wife, Shannon, and her unfailing confidence, encouragement, and inspiration.

Finally, a personal word of appreciation to Mr. S. Michael Scott, where ever he may be.
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CHAPTER 1

Graduate study in industrial education had an early beginning. During the last part of the nineteenth century, manual training, the forerunner of industrial education spread into the nation's schools. (Stong and Schaefer, 1975, p. 4) During the development of manual training education many problems such as course content, teaching objectives, and methods of teaching were encountered. In order to seek answers to these problems facing manual training and at a later date, industrial education, graduate study in these areas was developed. (Schulz, 1961, p. 88)

Throughout the twentieth century, the need for graduate schools continued to develop. State boards of education have increasingly required masters degrees for permanent teaching certification. Industrial education masters degree programs have been developed to provide advanced training and study for those people interested in the area of industrial education.

Industrial education is a generic term which describes a part of the total general education program. (Henak, 1974, p. 3) Components of industrial education are as follows: 1) industrial arts education; 2) vocational education; 3) avocational education; 4) technical education;
5) industrial technology education; and 6) technology education. This study will focus upon those institutions in the United States which currently offer masters degrees in industrial education.

According to the 1978-79 edition of the Industrial Education Teacher Directory, one hundred and seventy-nine institutions offer masters degrees in industrial education. (Dennis, 1978, p. 1-86) Due to the fact that several institutions did not provide degree data in the directory, one hundred eighty-four colleges and universities were contacted in the research.* With such a large number of institutions granting masters degrees in industrial education, no single source of information dealing strictly with all the current masters programs in industrial education could be located by the author. It would appear that the prospective graduate student is without a unified source of information concerning masters programs in industrial education.

In order to determine what has been published within the field of industrial education about masters degree programs the author conducted a review of literature. The

* According to Dr. Ervin Dennis, compiler of the Industrial Teacher Education Directory, twelve departments did not respond to his request for data, consequently they were not included in this research.
review was originally designed to gather information that could be utilized when:

(1) Compiling information about the various masters programs in industrial education.

(2) Developing a questionnaire to collect data about masters programs in industrial education.

(3) Formulating the returned data into an information guide about masters programs in industrial education.

In this, the first of two literature reviews it was determined that only information published since 1970 would be published.*

Unfortunately, most of the information discovered in the literature review presented a general overview of graduate study in industrial education. Several publications were found that were written about a specific program, but were usually limited to a narrow segment of that program instead of the entire masters program. Graduate Study in Industrial Arts, by Bohn and Norman was located in the research but the publication contains

* The second review of literature; a historical perspective gathered information that had been published prior to and throughout the development of industrial education masters programs.
general information about masters and doctorate programs and does not contain specific information about the schools or their content.

Rationale

Masters degrees in industrial education are one of the most sought after commodities in education. (University of Wisconsin-Stout, p.4) Last year over two thousand three hundred masters degrees were awarded in the field of industrial education. (Dennis, 1978) Due to the unequivocal importance of masters degrees in industrial education, and the steadily increasing demand; a comprehensive listing, including the types of programs, types of degrees, philosophical bases, discipline bases, objectives, admission requirements, and financial assistance available is needed.

Presently, and in the past, prospective graduate students have had to rely upon a variety of sources to get information about a masters degree program. Graduate catalogs, which may be obtained from the university or college usually contain limited course descriptions, hour requirements, and a listing of the faculty. Most often graduate catalogs do not state specific objectives, philosophical base, or financial assistance available.
Students may also obtain information directly from the school.

An information guide can present selected characteristics of masters programs in an organized manner. Hopefully all one hundred seventy-nine programs will be listed in the information guide providing a source from which the prospective student can compare and contrast the various programs. The information guide will fill a need created by prospective graduate students who desire a concise, informative, readily available, and current information source about masters programs in industrial education.

Statement of the Problem

A need exists for a readily available source of information concerning the types of masters programs, types of degrees, philosophical bases, discipline bases, objectives, admission requirements, and the financial assistance available from the various universities and colleges. The problem is therefore: To develop an organized and current source of information which can be made available in guide form for use by the prospective graduate student in the process of selecting a masters program.
Purpose and Objectives of the Study

The purpose of this study was to establish a collective source of information concerning masters programs in industrial education. To be more specific, this study has eight major objectives.

1. To determine the types of masters programs in industrial education.
2. To identify types of degrees available in industrial education.
3. To ascertain the philosophical bases of all the masters programs in industrial education.
4. To indicate the discipline bases of all the masters programs in industrial education.
5. To identify the objectives of the masters programs in industrial education.
6. To determine the requirements for admission into the masters programs in industrial education.
7. To disclose the financial assistance available for the prospective graduate student in industrial education.
(8) To develop a guide which could be utilized by the prospective masters student to analyze all the masters programs in industrial education.
CHAPTER 2

DEVELOPMENT OF INDUSTRIAL EDUCATION MASTERS PROGRAMS

Graduate study in industrial education has an early beginning. A year or two after the Teacher's College had become a part of Columbia College in 1893 under the direction of Mr. Charles Bennett, "industrial arts education gained a toe-hold in an American university". (Bennett, 1937, p. 273) Bennett who used the term manual training, convinced the Faculty of Philosophy at Columbia to accept his manual training program at both the graduate and undergraduate level. The manual training department at Columbia University and the first masters degree program in industrial education became a reality after construction was completed on the Macy Manual Arts Building at Columbia.

After the first graduate program at Columbia was developed in the latter part of the nineteenth century, other programs were established at a very slow pace. Prior to the first world war, only three or four men were said to have had a graduate degree in industrial education. (Bennett, 1935, p. 146) In 1930, a Committee of the Manual Arts Conference of the Mississippi Valley reported that fewer than ten institutions offered graduate study in industrial education. (Bennett, 1935) The first major
university to implement an industrial education masters program after Columbia University was the University of Wisconsin. Students who participated in the masters program at the University of Wisconsin were first allowed to have manual arts as their major subject area in 1920.

(Schulz, 1961, p. 89)

Slowly other colleges and universities started to offer master degree programs in industrial education, but the number of schools were few and there were often great distances between them. Students had to travel long distances in order to receive masters level instruction. Evidence of this was shown when fifty-nine students from fourteen states and one foreign country gathered at Iowa State College in 1933. The summer session, under the direction of William Hunter, conferred twelve Master of Science degrees at the close of the summer session.

(Wills, 1933, p. 77) Charles Bennett, editor of Industrial Education Magazine was brought to Iowa State for the summer session as a guest professor culminating the session, which at the time was one of the largest professional groups interested in industrial education masters degrees.

Graduate work in industrial education took another step forward when Oklahoma A&M College organized their industrial education program in 1932; the same year their masters program was recognized. In June, 1938, nine candidates
completed the masters degree and thirteen more at the close of the 1932 summer session at Oklahoma A&M. (Bennett, 1933, p. 3A)

By the middle of the 1930's, masters degrees were becoming increasingly common for teachers in the public schools. Approximately twenty-five institutions offered a masters degree in industrial education by 1936. According to Thomas Bawden in 1936, in his review of industrial education of the past two years,

Ten years ago the teacher of shop work or drafting who possessed the masters degree was an exception, almost a rarity. Today our junior and senior high faculties include many masters degree men, and the number of men who are now actively pursuing graduate courses to that end is truly impressive. (Bawden, 1936, p. 76)

In 1935, Fryklund predicted that with such a tremendous growth of masters programs, the masters degree would soon be a requirement for teaching industrial arts. (p. 119)

In Fryklund's opening address at the Manual Arts Conference of the Mississippi Valley, he stressed that the industrial education profession must concentrate upon the quality of masters programs instead of the quantity of programs. He thought that the key to this was through research, or the masters thesis. Apparently Fryklund's plea went unheard: by 1937 there were approximately forty institutions that offered a masters degree in industrial education. (Hankammer, 1937, p. 178)
During the late forties and early fifties the profession went through a period of rapid development. A large part of this increase was attributed to the G. I. Bill, which was passed after World War Two. (Morgan, 1952, p. 158) Before the G. I. Bill, a masters degree was thought of as a possibility for most industrial education teachers. After the G. I. Bill was passed it was thought of as being normal and due to stiffening educational requirements, a masters degree was often necessary after the bachelors degree. According to Morgan another reason for such a large growth in masters programs in industrial education can be attributed to the salary differentials based upon the attainment of advanced degrees. (p. 158)

Until the fifties, a very important part of a student's masters program was writing a thesis. In many cases if a student had not completed a thesis during his masters program he would not have been included in statistics concerning the number of masters degrees awarded. (Schulz, 1961, p. 179) The thesis requirement was seen as a teaching device for which there was no substitute. (Hankammer, 1937, p. 179) During the fifties there was a trend to substitute the thesis requirement in lieu of additional course work and in some cases a general comprehensive examination. (Morgan, 1952, p. 158) By the sixties the thesis requirement had been abolished at most colleges and universities and the number of masters
At present one hundred seventy-nine schools are listed in the **Industrial Teacher Education Directory** as offering masters degrees in industrial education. Schools that offer master degrees in industrial education are located in forty-seven of the fifty states. The programs listed in the directory have a variety of content bases ranging from vocational education to technology education. The thesis requirement is not nearly as important with only sixteen schools presently requiring a thesis. The number of masters degrees conferred in industrial education had risen to over twenty-two hundred by 1978. (Dennis, 1978, p. 1-86)

Historically speaking, masters degrees in industrial education have progressed a great deal since the first masters degree program was established by Charles Bennett in the 1890's. (See figure 2-1) The masters degree has gone through several changes during the past ninety years. It has gone through the manual training era, into the industrial era, and in some instances into the technology era. With continued progress and development, masters degrees in industrial education will some day reach the level of prominence that Bennett has proposed back in 1894.
First masters program in industrial education started at Columbia University in 1894 by Charles Bennett.

Tremendous increase in number of students due to the G.I. Bill from 1945-1955.

Presently 179 schools offering masters degrees in industrial education.

Iowa State College largest group gathered so far, for a masters degree, 1933.

First major university to start a masters program in industrial education since Columbia University. Implemented by the University of Wisconsin in 1920.

Oklahoma A&M graduates largest group so far (9) for a master degree in industrial education, 1932.

This figure represents the different periods in time in which substantial developments were made in industrial education masters degree programs.
Due to the increasing number of masters degree programs and their complexity a survey was conducted to gather information about the programs and their characteristics. The following chapter describes the process used for designing the survey instrument and its administration.

The questionnaire was designed after a primary review of literature was conducted in an effort to meet the needs of the perspective masters student. The questionnaire was developed within four broad areas. The four areas were:

1. General information about the institutions name, graduate coordinator, etc.
2. Information about the program, such as discipline base, objectives, etc.
3. Information concerning approval to be admitted to the program and the formal evaluation process that follows.
4. Financial information which includes the tuition cost, any additional fees and the financial assistance available.

After a rough draft of the questionnaire was formulated, the next step was to validate it. The draft was submitted
to the four members of the thesis committee. Each member was asked to evaluate the questionnaire and make recommendations for improvement. Based upon the results of their recommendations, revisions were made and the final copy of the questionnaire was designed. After approval from the thesis advisor and Dean of the School of Technology, the questionnaire was printed.*

The first part of the questionnaire centered around general information about the school, department, and the masters program. The participant was asked to complete questions concerning the name of the institution, school or department, coordinator of graduate studies, phone number, and the degree(s) offered. This information provided the complier with a source of reference and information when analyzing the returned data.

The second part of the questionnaire was designed to gather information about the philosophical bases of the various masters programs. To determine what the program was philosophically based upon, the participant was asked to indicate the discipline base of the program, thus providing general information concerning what social institution or knowledge base their program is designed around. The next question requested information concerning the orientation of the program and class work; philosophy, * For a copy of the questionnaire, see the appendix of this thesis.
technical, and/or supervisory. The last question of part two was designed to ascertain specific information about the program and what it is intended to do for the student. As briefly as possible, the participant was asked to list the objectives or goals of their masters program.

The third part of the questionnaire was developed to determine admission requirements of the various programs including evaluation techniques used to select potential graduate students. The first question asked in part three was what kind of standardized tests were required, if any. Listed on the questionnaire were two tests, the Graduate Record Examination, and the Miller Analogies, a line was left blank for the minimum score, if applicable. The next question asked for the minimum grade point average and any other requirements for admission. Also asked in this segment of the questionnaire was if a candidacy examination is required before students can be admitted to the program.

Included in part three of the questionnaire was the formal evaluation of the masters student. This series of questions was utilized to provide the student with information about the formal evaluation process, such as any final comprehensive examinations required for graduation. Participants were asked to describe how the test is administered; oral, written, or both. Also included in this series of questions were the thesis and internship requirements.
Part four, which focused around financial information, was broken down into two parts. The first segment dealt with the types and amounts of fees that a masters student can expect to pay, excluding housing. Housing fees were not included in the questionnaire. Fees were broken down into three main categories: tuition; service fees; such as insurance, building funds, etc.; other types of miscellaneous fees. The participant was asked to fill in the cost of each fee on a blank line according to the cost for a resident of the state in which the institution is located in and the cost for an out of state student. If there were any miscellaneous fees, the participant was asked to state the type of fee and the amount.

The second segment of part four, financial assistance available, was broken down into two parts, graduate assistantships, and any other types of financial assistance available for the graduate student. The participant was asked if graduate assistantships were available for the masters student and if so, the number of assistantships that were offered in 1978-79. Graduate assistantships were further broken down into three types, teaching, research, and any other types, such as laboratory, administrative etc. The participant was then asked to provide the number offered and the monthly wage for each type of assistantship available. The participant was also asked to respond to questions concerning fees that the
graduate assistant might have to pay, such as tuition, service fees, etc.

The last segment of part four and of the questionnaire focused upon any other types of financial assistance that might be available for the masters student. The participant was asked to indicate the types of employment that are available for the masters student on campus and the monthly wage. Through this section of the survey, those students who did not qualify or who did not want an assistantship might be able to secure other types of financial aid.

As previously stated in this paper, the questionnaire was developed around the possible needs and or wants of the masters degree candidate. The questions asked on the questionnaire were not intended to gather all the information about a masters program, but instead to establish a source of general information about the masters programs within our field of industrial education.

**Administration of the Questionnaire**

Questionnaires concerning masters degree programs in industrial education were mailed to one hundred eighty-four schools offering this type of degree. All schools listed in the Industrial Education Teacher Directory as
offering masters degrees in industrial education were included in the survey. (Dennis, 1978) An additional five schools were added because they did not provide any degree data in the directory.

The initial survey was mailed on Februrary 14, 1979 and was addressed to departmental chairmen, heads, or deans. Included in the initial mailing was:

(1) A copy of the questionnaire
(2) A cover letter with a brief description of the study.
(3) A return addressed envelop.

One month later the first of two follow up surveys was mailed out to those colleges and universities who did not yet respond to the initial questionnaire. In order to gain a greater percentage of returns, a third and final questionnaire was mailed to those schools who did not yet respond to the first and second mailing. The closing date for the survey was June 8, 1979, which was indicated in the cover letter sent with the third mailing.

After each questionnaire was returned, it was cataloged as returned, assuring that the participating institution would not receive another request for information during one of the follow-up procedures. The questionnaires were then analyzed to determine if they were completed properly and could be utilized as a source of information for the study.
All returned questionnaires were separated into states alphabetically in preparation for the formulation of the information guide.
CHAPTER 4

ANALYSIS OF DATA

A total of one hundred eighty-four (184) questionnaires were mailed to those schools listed as offering a masters degree and to five (5) schools who did not provide any degree data. One hundred forty-nine (149) questionnaires were returned. This represents a return percentage of eighty-one percent (81%). Seven (7) questionnaires or three percent (3%) of the questionnaires returned did not include any information except the university's or college's name, department name, and phone number.

One questionnaire was returned stating their program was in the process of being restructured and could not provide information about their degree. A second questionnaire was returned stating their program is in the process of being transferred to another university. A third questionnaire returned indicated that both the undergraduate and graduate program were in the process of being phased out. A fourth questionnaire returned stated their program offers only a minor on the masters degree. Of the one hundred eighty-four (184) returned, one hundred thirty-eight (138) or seventy-five percent (75%) were completed and were utilized as an information source in this research.
Degree Information

Of the one hundred thirty-eight (138) schools who returned useable questionnaires, thirty-one (31) or twenty-two percent (22%) offered a Master of Arts degree. There were eight (8) different variations of this degree available for the graduate student. The Master of Arts in Industrial Education was the most common degree. Eleven (11) different schools offer the Master of Arts in Industrial Arts Education, making it the second most popular Master of Arts degree. For a complete listing of the Master of Arts degrees, see Figure 4-1.

Figure 4-1

<table>
<thead>
<tr>
<th>Type of Degree</th>
<th>Number Offered</th>
</tr>
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<tbody>
<tr>
<td>Master of Arts in Industrial Education</td>
<td>11</td>
</tr>
<tr>
<td>Master of Arts in Industrial Arts Education</td>
<td>10</td>
</tr>
<tr>
<td>Master of Arts in Education</td>
<td>8</td>
</tr>
<tr>
<td>Master of Arts in Vocation Education</td>
<td>4</td>
</tr>
<tr>
<td>Master of Arts in Teaching</td>
<td>3</td>
</tr>
<tr>
<td>Master of Arts in Industrial Technology</td>
<td>2</td>
</tr>
<tr>
<td>Master of Arts in Technology and</td>
<td></td>
</tr>
<tr>
<td>Industrial Education</td>
<td></td>
</tr>
<tr>
<td>Master of Arts in Trade and Industry</td>
<td>1</td>
</tr>
</tbody>
</table>

This figure indicates the number of options of Master of Arts Degrees available during 1978-1979.

Twenty-four (24) or seventeen percent (17%) of the schools surveyed offer a Master of Education degree or a variation of this degree. There are ten (10) different
types of variations of the Master of Education degree available. Twenty-three (23) schools offer a straight Master of Education degree making it the most popular. A Master of Education in Industrial Education is offered by ten (10) schools and nine schools offer a Master of Education in Industrial Arts. For a complete listing of all the Master of Education degrees offered see Figure 4-2.

Figure 4-2

<table>
<thead>
<tr>
<th>Type of Degree</th>
<th>Number Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Education</td>
<td>23</td>
</tr>
<tr>
<td>Master of Education in Industrial Education</td>
<td>10</td>
</tr>
<tr>
<td>Master of Education in Industrial Arts</td>
<td>9</td>
</tr>
<tr>
<td>Master of Education in Vocational Education</td>
<td>2</td>
</tr>
<tr>
<td>Master of Education in Career and Technical Education</td>
<td>1</td>
</tr>
<tr>
<td>Master of Education in Curriculum and Instruction</td>
<td>1</td>
</tr>
<tr>
<td>Master of Education in Professional Development</td>
<td>1</td>
</tr>
<tr>
<td>Master of Education in Trade and Industrial Education</td>
<td>1</td>
</tr>
<tr>
<td>Master of Education in Technology</td>
<td>1</td>
</tr>
<tr>
<td>Master of Education in Vocational Technical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

This figure indicated the number of options of Master of Education degrees offered during 1978-1979.

The most common masters degree in our field is the Master of Science degree. Forty-eight (48) schools or thirty five percent (35%) offer the Master of Science degree or some variation of it. There are twenty-two (22) variations of the Master of Science degree. The
most common Master of Science degree was the Master of Science in Industrial Education. Twenty-two (22) schools offer this type of degree. The Master of Science in Education degree is offered by sixteen (16) different schools, making it the second most common degree. A complete listing of all the Master of Science degrees can be found in Figure 4-3.

Figure 4-3

<table>
<thead>
<tr>
<th>Type of Degree</th>
<th>Number Offered</th>
</tr>
</thead>
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<tr>
<td>Master of Science in Industrial Education</td>
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<td>Master of Science in Industrial Technology</td>
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<tr>
<td>Master of Science in Occupational Education</td>
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<td>Master of Science in Curriculum and Instruction</td>
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<tr>
<td>Master of Science in Industrial Operations</td>
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<td>Master of Science in Industrial Supervision and Management</td>
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</table>
Master of Science in Vocation/Special Education 1
Master of Science in Vocation - Industrial Education 1

This figure represents the number of options of Master of Science degrees available during 1978-1979.

A straight masters degree with a specific area of concentration, such as a Master of Industrial Safety, was offered by three (3) or two percent (2%) of the programs. There are six (6) different variations of the straight masters with the Master in Industrial Education degree being the most popular; four (4) offer this degree. A complete listing is given in Figure 4-4.

Figure 4-4

<table>
<thead>
<tr>
<th>Type of Degree</th>
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<tr>
<td>Master in Industrial Education</td>
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<td>Master of Industrial Safety</td>
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<td>1</td>
</tr>
<tr>
<td>Master of Technology</td>
<td>1</td>
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</tbody>
</table>

This figure indicates the options of Masters degrees offered during 1978-1979.

Combinations of degrees are offered by thirty-two (32) institutions or twenty-three percent (23%). An example of a combination of degree was a Master of Arts degree and a Master of Education degree offered within the same program. The most frequent combination of degrees
offered is the Master of Education along with a Master of Science degree: fourteen (14) schools offer this type of program. Three (3) schools offer three (3) different types of degrees within the same program, a Master of Education, Master of Science, and a Master of Arts.

Across the nation forty-eight (48) different types of degrees are available in the industrial education field. Through these forty-eight (48) degrees, a total of two hundred different degrees are available, from which the master candidate may choose. The most common degree is a degree in industrial education with forty-six (46) different schools offering some type of degree in industrial education. A masters degree in industrial education constitutes twenty-three percent (23%) of all the degrees in the industrial education field.
Discipline Base

In order to determine what the programs were based upon, each school surveyed was asked what their discipline base was. Three choices were listed on the questionnaire. They were industry, industrial technology, and technology. A blank line was also included for those programs not falling under one of the three categories. In response to this question, one hundred twenty-nine (129) or ninety-three percent (93%) answered. Twenty-eight questionnaires were returned with answers that were determined as being inappropriate or not applicable to this question. All questionnaires returned with answers such as industrial arts, Bachelor of Science in Industrial Education, vocational training, etc., as a discipline were listed as being not applicable. A total of one hundred one (101) questionnaires were utilized to determine the discipline base of the various programs.

Twenty-seven percent (27%) of the schools across the nation base their programs upon the study of industry. Another twenty-seven percent (27%) base their programs upon the study of industrial technology. Three percent (3%) have programs based upon both industry and industrial technology. This concludes that fifty-seven percent (57%) of the schools across the nation base their programs upon the industrial sector of the society.
The technology base is used in sixteen percent (16%) of the schools. This accounts for approximately one-sixth of the schools utilizing technology as a discipline base.

Nine (9) questionnaires were returned stating their programs were based upon other discipline areas not listed on the questionnaire. Education is used as a discipline base by eight (8) schools. One (1) school responded that the professional activities that are taking place in the profession are being used for a base of study.

Technology, industry, and industrial technology are all being used as a discipline base in twelve (12) schools. Five (5) programs use industry and technology as a discipline base. Technology and industrial technology are used by two (2) schools as base of study. A total of twenty-two percent (22%) of the programs utilize multiple discipline bases.

Figure 4-5 represents the program discipline bases as of 1978-1979.
Program Orientation

The next question was aimed at the various program orientations. Each participant was asked if their program is orientated towards philosophy, technical, or supervisory. In response to this question, one hundred thirty-seven (137) or over ninety-nine percent (99%) returned usable data. The remaining one (1) questionnaire was returned stating that the question was unclear.

The largest percentage of the programs; thirty-seven percent (37%) responded that their program utilizes all the mentioned areas of orientation. Students who choose to attend one of these fifty (50) schools would receive philosophical, technical, and supervisory instruction as part of their masters program.

Thirty-five (35) programs responded that their program is oriented towards supervisory. This represents twenty-six percent (26%) of the total. The majority was composed of vocational education programs.

Seventeen (17) programs, or twelve percent (12%) offer only technical instruction. Students enrolled in these programs receive advanced technical training in the different areas of instruction.

Thirteen (13) participants responded that their programs are oriented towards both philosophy and
supervision. This accounts for nine percent (9%) of the total.

Of the remaining twenty-two (22) schools, twelve (12) schools responded that their programs are oriented towards technical and supervisory instruction. Six (6) schools have programs that are oriented towards both philosophy and technical. Two percent (2%) or three (3) programs are structured around philosophy. The remaining one (1) school responded that their program is not oriented towards one of the listed areas; but it is oriented towards safety.

Figure 4-6

Figure 4-6 represents the various program orientations during 1978-1979.
Admission Requirements and Evaluation Procedures

Part three (3) of the questionnaire was developed to provide the prospective masters student with information concerning admission requirements and evaluation procedures after being admitted into the program. Each school was asked to respond to a series of questions about the admission requirements. The choices listed on the questionnaire were the Graduate Record Examination, the Miller Analogies Test, minimum grade point average, and if candidacy examination is required.

The Graduate Record Examination is required by fifty-eight (58) schools or forty-two percent (42%) of the responding one hundred thirty-seven. The Miller Analogies Test is required by nine (9) schools or six percent (6%). Another nine (9) schools give the student an option of taking either the Graduate Record Examination or the Miller Analogies Test for admission into their program. Both tests are required by two schools. One percent (1%) or two (2) programs require the N.T.E. Commons Examination for admission.

All one hundred thirty-eight (138) or one hundred percent (100%) of the programs responded to the question concerning the minimum grade point average that is required for admission. A specific grade point average is required
by one hundred twenty-one (121) schools for a student to be admitted, while seventeen (17) schools do not have this type of requirement. The mean grade point average that is required on a four (4) point scale is a 2.64. The median grade point average is a 2.5; a 3.3 is the highest required, while a 2.0 is the lowest grade point average acceptable for admission. See Figure 4-7.

This figure represents the minimum grade point averages for admission into the various masters programs.

A candidacy examination is required by twenty-two (22) schools or sixteen (16%) for admission into their programs. The examination required is in either a written or an oral format, and in some cases either a written or
an oral examination are required. One hundred six (106) schools do not require any type of candidacy examinations.

The second segment of part three (3) of the questionnaire was centered around the formal evaluation of the masters student. Ninety-two percent (92%) of the schools responded to this group of questions. Seventy-one percent (71%) require some type of final comprehensive examination as part of their formal evaluation process. One (1) school gives the masters student an option of taking either a final comprehensive examination or writing a thesis. Thirty-eight (38) schools do not require a comprehensive examination. Of those schools requiring a comprehensive examination, forty-five (45) require the exam in a written essay format, twenty-five (25) require the examination in an oral format, and twenty-one (21) schools require both a written and oral examination. One (1) program gives the student an option of taking either a written or an oral examination.

Included as part of the formal evaluation in segment three (3) of the questionnaire was the thesis and internship requirements. Twelve percent (12%), or sixteen (16) schools require a thesis for graduation. The majority of the masters programs give the student an option of writing a thesis or taking an additional amount of course work. Nine (9) schools require an internship either in an industrial occupation or in some form of teaching.
Financial Information

The final segment of the questionnaire, part four (4), was broken down into two parts and was concerned with financial information. The first segment of part four (4) focused upon the types of fees that a masters student can expect to pay; mainly tuition. The second segment of part four (4) dealt with the various ways to offset the cost of a masters degree with the different types of financial assistance that are available, but concentrating mainly upon graduate assistantships.

One hundred thirty-two (132) or ninety-six percent (96%) of the schools responded with the cost of tuition per semester or per quarter for both resident and out of state students. The mean cost of tuition across the nation per semester or quarter for an in state resident was $365.00. The highest in state tuition cost was $2,500.00 per semester or quarter and the lowest was $48.00. Four (4) schools have tuition costs above $1,000.00 per semester and eight schools have tuition fees below $100.00 per semester or quarter.

The mean cost of tuition for an out of state student is $793.00 per semester. The highest cost for out of state tuition was $2,500.00. The lowest out of state tuition cost was $200.00. Fourteen (14) schools have out
of state tuition cost above $1,000.00, with seven (7) of these schools above $1,500.00. See Figure 4-8.

Figure 4-8

![Figure 4-8](image)

Figure 4-8 indicates the resident and non-resident tuition fees.

The second segment of part four (4) was focused upon the various types of financial assistance available, but dealt more specifically with graduate assistantships. One hundred twelve (112) schools or departments replied that they offer graduate assistantships. Twenty-two (22) schools stated that they do not offer any type of assistantship. This school year, 1978-1979, five hundred twenty-one (521) assistantships were available. The average or mean number of assistantships available at the masters level per school was 4.7. The highest number of assistantships available at one school was thirty-two (32), but the
most common amount was two (2) assistantships per school.

There are six different types of assistantships available for the masters student. The most common type of graduate assistantship is the teaching assistantship; two hundred seventy-three (273) were available this year. The average number per school was 3.7, with one (1) school offering thirty (30) teaching assistantships. Research assistantships were offered at forty-four (44) schools making it the next most common type of graduate assistantship available. One hundred fourteen (114) research assistantships were available this year with 2.6 being the mean per school. Only twenty-three (23) schools offered laboratory assistantships; however one hundred sixteen (116) were available this year. An average of five (5) laboratory assistantships were available at each school with one (1) school offering thirty-two (32) laboratory assistantships. Two (2) schools offered assistantships which were field service assistantships. Four (4) field service assistantships were available this year. Twelve (12) curriculum development assistantships were available with one (1) school offering all twelve. This year one (1) school offered two (2) administrative assistantships, see figure 4-9 for additional assistantship information.

Eighty-eight (88) schools pay their graduate assistants
Included in this figure are the monthly graduate assistant wages in 1978-1979. Monthly, wages range from a high of $906.00 to a low of $116.00 per month. The average monthly wage for a graduate assistant is $344.00. Thirteen (13) schools pay their assistants yearly with an average of $2,832.00 per year. Two (2) schools pay their graduate assistantships by the semester with an average wage of $1,324.00.

This chapter has not disclosed all the different features of each program, but it has compiled the most common responses from the participating colleges and universities. Through the utilization of this research persons interested in industrial education master degree programs can compare and contrast the philosophical similarities and differences of the responding institutions.
CHAPTER 5

SUMMARY AND RECOMMENDATIONS

This research was not designed to gather information about all the aspects of each masters program. It was developed to provide prospective graduate students with a source of information to compare and contrast the various masters programs. Several conclusions can be made concerning masters programs in industrial education based upon the information gathered from the participating institutions.

Across the nation forty-eight different types of degrees are available in our field. Within the forty-eight degrees, and the one hundred thirty-eight schools offering them, a total of two hundred different masters degree options are available for the prospective masters student. The most popular degree offered is the Master of Science. Forty-eight schools offer the Master of Science degree, or some variation of it. Thirty-one programs offer a Master of Arts degree. The Master of Education degree is offered by twenty-four different institutions.

The majority of the responding one hundred thirty-eight schools base their programs upon either industry, industrial technology, or technology. Twenty-seven schools
base their programs upon the study of industry, and another
twenty-seven schools base their programs upon the study of
industrial technology. Three programs are based upon both
industry and industrial technology. This concludes that
fifty-seven of the responding one hundred thirty-eight schools
base their programs upon the industrial sector of the society.
Sixteen schools utilize a technology base.

When asked what their program is oriented towards, one
hundred thirty-seven responses were received. Thirty-seven
of those responding have programs oriented towards, technical,
philosophy, and supervisory. Students who attend one of these
fifty schools receive instruction in all the above areas.
Thirty-five schools have programs oriented towards super­
visory, while seventeen schools offer only technical instruc­
tion. Only three programs are structured around philosophy.

The most common requirement for being admitted into
a masters program is the Graduate Record Examination. The
Miller Analogies Test is required by only nine schools. In
addition to the required standardized test, twenty-two
schools require a candidacy examination for admission. The
mean grade point average required for admission is a 2.64
on a 4.0 scale.

The cost of a masters degree ranges from a low of
$48.00 per semester for an in state student to a high of
$2,500.00 for an in state student. The mean cost of tuition
for an in state student is $365.00 per semester. The mean cost of tuition for an out of state student is $793.00 per semester. The highest out of state tuition is $2,500.00 and the lowest out of state tuition is $200.00.

To offset the cost of tuition and other associated expenses several different types of graduate assistantships are available. This school year five hundred twenty-one graduate assistants were available. An average of 4.7 assistantships were offered at each school. The most common type of assistantship is the teaching assistantship, two hundred seventy-three were offered this year.

Monthly wages for graduate assistantships range from a high of $906.00 to a low of $116.00 per month. The average wage for a graduate assistantship is $344.00 per month. Thirteen schools pay their assistants yearly with an average wage of $2,832.00 per year. Two schools pay their assistants by the semester with an average wage of $1,324.00.

In conclusion, this research has not disclosed all the different aspects of each program. It has attempted to develop an organized and current source of information which can be made available in guide form for use by the prospective graduate student in the process of selecting a masters program.
Recommendations

The following recommendations are made with respect to the findings presented in the study.

(1) Every two years, due to program changes and revisions, the information guide needs to be updated. The revising process of the information guide could be done through an independent study at either the graduate level or at the undergraduate level. The revision process could also become a club project.

(2) The information guide needs to be published into booklet form. The published booklet should then be distributed to the various undergraduate programs. Those undergraduate students who are in the process of selecting a masters program could utilize the information guide at their convenience.

(3) Due to the cost of publishing the information guide, an agreement should be made with either a public or private organization to cover the printing costs. This agreement could be similar to the agreement between the American Council on Industrial Arts Teacher Education and the Goodheart-Willcox Company concerning the publication of the Industrial Teacher Education Directory.
BIBLIOGRAPHY
BIBLIOGRAPHY

Books


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Miscellaneous

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APPENDICES
APPENDIX A

MASTERS DEGREE SURVEY
Masters Degree Questionnaire

NAME OF INSTITUTION

NAME OF DEPARTMENT OR SCHOOL

COORDINATOR OF GRADUATE STUDIES

PHONE NUMBER

TYPE OF DEGREE(S) OFFERED (i.e. Master of Science in Industrial Education)

a)

b)

c)

REQUIREMENTS FOR ADMISSION

(YES) (NO) Graduate Record Examination

(YES) (NO) Miller Analogies Test

Minimum Score

Minimum Score

Minimum Grade Point Average

Other Requirements

DISCIPLINE BASE

( ) Industry

( ) Technology

( ) Industrial Technology

Other

IS YOUR PROGRAM ORIENTED TOWARDS:

( ) Philosophy (i.e. Why study industrial arts.)

( ) Technical (i.e. Advanced technical courses in metals, woods, etc.)

( ) Supervisory (i.e. Curriculum development, department leadership, etc.)
As briefly as possible, list the objectives of your masters program.

EVUALATION OF GRADUATE STUDENTS

(YES) (NO) Do graduate students take a candidacy examination? If yes, please describe the format.

(YES) (NO) Do students take a final comprehensive examination? If yes, please describe the format.

(YES) (NO) Is a thesis required?

(YES) (NO) Is an internship required?

FEES

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<td>$________</td>
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<td>Services</td>
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<td>$________</td>
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<tr>
<td>(i.e. insurance, building funds, etc.)</td>
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<tr>
<td>Other</td>
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Please state type

GRADUATE ASSISTANTSHIPS

(YES) (NO) Graduate assistantships are available.

_______ If yes, how many were offered in 1978-79

(YES) (NO) Teaching assistantships

_______ If yes, how many were teaching assistantships?

_______ If yes, how many were research assistantships?

_______ Other types, please indicate.
FINANCIAL ASSISTANCE

$_______ Monthly wage for a teaching assistant.

$_______ Monthly wage for a research assistant.

$_______ Monthly wage for other type(s).

(YES) (NO) Is tuition waived?

(YES) (NO) Are all fees waived? If no, what does a student have to pay for each term?

(YES) (NO) Are other types of financial assistance available? If yes, please indicate the type and monthly wage. (i.e. fellowship, work study)

$_______ per month for

$_______ per month for
APPENDIX B

QUESTIONNAIRE EXPLANATION LETTERS
February 14, 1979

I am a graduate student at Eastern Illinois University, conducting thesis work on an information guide about masters degree programs in industrial education. My thesis is concerned with the need for a readily available and central source of information concerning masters degree program content.

The purpose of my research is the development and publication of a guide which will help prospective masters students select a graduate program in industrial education. All industrial education masters degree programs across the United States will receive information concerning this research project. Included with this letter please find a standardized questionnaire with specific questions about your masters program. Would you please take a moment to complete the included questionnaire and return it in the self addressed envelope.

Your returned questionnaire will be formulated into an information guide along with the remaining 185 responses and your participation will guarantee your school a copy of the results. A comparison of the programs will not be made. It is extremely important to my thesis work that you complete and return the included questionnaire as soon as possible.

Your immediate reply and assistance is very much appreciated. I am thanking you in advance for your cooperation.

Sincerely,

Phillip J. Jenks

Dr. John R. Wright
Thesis Advisor

PJJ/dab
March 27, 1979

As I had indicated in my previous letter, I am a graduate student at Eastern Illinois University conducting thesis work on an information guide concerning masters degree programs in industrial education. To date 53 per cent of the questionnaires I mailed on February 14, 1979 have been returned. According to my records, your questionnaire has not been received. If you have misplaced or have not had time to complete the first questionnaire, could you please find the time to fill out the enclosed questionnaire and return it in the self-addressed envelope.

Your returned questionnaire will then be formulated into an information guide. Your participation will guarantee your school a copy of the results. It is extremely important to my thesis work that you complete and return the enclosed questionnaire as soon as possible. Thank you very much for your assistance and cooperation.

Sincerely,

Philip J. Jenks

Dr. John R. Wright
Thesis Advisor
May 24, 1979

As I had indicated in my previous letters, I am a graduate student at Eastern Illinois University conducting thesis work on an information guide concerning masters degree programs in industrial education. Presently over 75% of the questionnaires have been returned, but according to my records, I have not yet received your questionnaire. Would you please take the time to complete and return the enclosed questionnaire in the self-addressed envelope.

The closing date for my survey will be June 8, 1979. I will assume that after that date you do not wish to respond. The returned questionnaires are being formulated into an information guide and will be distributed to all participating schools. I sincerely hope that your school will be included in the information guide. Thank you for your assistance and cooperation.

Sincerely,

Philip J. Jenks
dsib
APPENDIX C

INFORMATION GUIDE
ALABAMA

AUBURN UNIVERSITY
Vocational and Adult Education Department
Auburn, Alabama 36830

GRADUATE COORDINATOR: Dr. Wiley Hartzog

DEGREES OFFERED: Master of Education in Industrial Arts
Master of Science in Education in Industrial Arts

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: No candidacy examination required
oral and or written final: comprehensive is required

FEES: Tuition Per Semester- Resident $200.00
Out of State $200.00

FINANCIAL ASSISTANCE: 3 Graduate Teaching Assistantships $300.00 per
month. Tuition is waived but the student
has to pay $200.00 each term. Other types of
financial assistance is available.

UNIVERSITY OF ALABAMA
Vocational and Adult Education
University, Alabama 35486

GRADUATE COORDINATOR: Dr. Donald Campbell

DEGREES OFFERED: Master of Arts in Industrial Arts Education
Master of Arts in Trade and Industrial Education

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: Preparation of master teachers.

ADMISSION REQUIREMENTS: 1,000 on the NTE Commons Examination or
50 on the Miller Analogies Test with a
2.0 to a 3.0 minimum grade point average.
EVALUATION OF GRADUATE STUDENTS: No candidacy examination required, a written final comprehensive is required.

FEES: Tuition Per Semester- Resident $333.75 Out of State $706.25

FINANCIAL ASSISTANCE: 4 Graduate Teaching Assistantships $400.00 per month. 4 Graduate Research Assistantships $400.00 per month, tuition is not waived for assistantships.

UNIVERSITY OF ALABAMA in Birmingham Vocational Education Department University Station, Alabama 35294

GRADUATE COORDINATOR: Dr. Creighton N. Alexander

DEGREE OFFERED: Master of Arts in Education

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy and Technical

PROGRAM OBJECTIVES: 1. To develop a comprehensive teacher education program in secondary industrial arts education based on the study of technology.
2. To create a teacher education program that will assist its personnel in becoming more technologically literate.
3. To generate the development of a program that offers pre-service and inservice training for secondary industrial arts education personnel.
4. To design, develop, research, and cooperatively work with all levels of school programs, State Department of Education and the University of Alabama in Birmingham.
5. To develop an awareness of the need for curriculum revision and innovation and to develop the expertise to engage in these activities.
6. To expand the teacher/learner's knowledge of the needs, interest, and abilities of the secondary age student.
7. To improve teaching skills through advanced teaching techniques.

ADMISSION REQUIREMENTS: 1,000 on the Graduate Record Examination with a 2.0 grade point average on a 3.0.
EVALUATION OF GRADUATE STUDENTS: No candidacy examination required, depending upon degree, either an oral or written final comprehensive examination is required.

FEES: Tuition per credit hour- Resident $34.00
Out of State $68.00
Services per credit hour- $5.00 for both resident and out of state.

FINANCIAL ASSISTANCE: 1 Graduate Teaching Assistantship $500.00 per month. All other fees are waived. Other types of financial assistance are available.

ARIZONA

ARIZONA STATE UNIVERSITY
Industrial Technical Education Department
Tempe, Arizona 85281

GRADUATE COORDINATOR: Dr. J. J. Littrell

DEGREES OFFERED: Master of Education in Industrial Education
Master of Technology

DISCIPLINE BASE: Industrial Education

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: To prepare teacher for industrial arts, trade, and technical education. The MED provides a broader technical and philosophical base; the MT provides a more specific technology base.

ADMISSION REQUIREMENTS: Either the Graduate Record Examination or the Miller Analogies Test and a minimum grade point average of 3.0 on a 4.0.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination required, depending upon degree, either an oral or written final comprehensive examination is required.

FEES Tuition Per Semester- Resident $275.00
Out of State $1050.00
FINANCIAL ASSISTANCE: 6 Graduate Teaching Assistantships $380.00 per month. 2 Graduate Research Assistantships $380.00 per month. Only out of state tuition is waived and graduate assistants have to pay an additional $54.00 per semester. No other types of financial assistance is available.

NORTHERN ARIZONA UNIVERSITY
Department of Industrial Education
Flagstaff, Arizona 86001

GRADUATE COORDINATOR: Dr. Robert Wooldridge

DEGREES OFFERED: Master of Arts in Industrial Education
Master of Arts in Vocational Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: Industrial Education: to gain skills and knowledge necessary to become a master teacher; to advance the technical competences; to develop a philosophical base.
Vocational Education: to gain skills and knowledge in vocational administration and supervision and to develop a professional base.

ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: A two hour oral candidacy examination is required for admission.

FEES: Tuition per year- Resident $500.00
Out of State $1,350.00

FINANCIAL ASSISTANCE: 2 Graduate Assistantships $120.00 per month. Only out of state tuition is waived and graduate assistants have to pay an additional $500.00 per year. Other types of financial assistance is available.

ARKANSAS
UNIVERSITY OF ARKANSAS
Department of Vocational Education
Fayetteville, Arkansas 72701

GRADUATE COORDINATOR: Dr. Denver B. Hutson

DEGREE OFFERED: Master of Education in Vocational Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: To upgrade teachers in the professional and leadership skills related to teaching.

ADMISSION REQUIREMENTS: Graduate Record Examination or the Miller Analogies Test and a 2.5 grade point average on a 4.0.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination required a written final comprehensive examination is required.

FEES: Tuition per Semester- Resident $230.00
Out of State $315.00

FINANCIAL ASSISTANCE: 2 Graduate Teaching Assistantships $150.00 per month. Only 50% of tuition is waived and graduate assistants have to pay either $250.00 (resident) or $315.00 (out of state) each term.

UNIVERSITY OF CENTRAL ARKANSAS
Industrial Education Department
Conway, Arkansas 72032

GRADUATE COORDINATOR: Dr. V. N. Hukill

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: It is designed exclusively for the further preparation and training of industrial arts and vocational education teacher. To extend and enhance their knowledge, techniques, and skills in the various areas.
ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.5 minimum grade point average on a 4.0.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination required, a final comprehensive examination is required.

FEES: Tuition per semester hour- Resident $20.00
Out of State $50.00
Services per semester hour- $5.00 for both resident and out of state.

FINANCIAL ASSISTANCE: No financial assistance is available.

CALIFORNIA

CAL POLY STATE UNIVERSITY
Industrial Technology Department
San Luis Obispo, California 93407

GRADUATE COORDINATOR: Dr. R. A. Wysock

DEGREE OFFERED: Master of Arts in Industrial Arts

DISCIPLINE BASE: Industrial Education

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: Prepare industrial arts teachers for advancement and offer upper degree for industrial education people.

ADMISSION REQUIREMENTS: 650 minimum score on the Graduate Record Examination and a 2.5 minimum grade point average on a 4.0.

EVALUATION OF GRADUATE STUDENTS: An oral candidacy examination is required and students have an option of either writing a thesis or taking a final comprehensive examination.
FEES: Tuition per quarter- Resident $64.00
per hour- Out of State $30.00

FINANCIAL ASSISTANCE: 2 Graduate Teaching Assistantships $400.00 per month. 1 laboratory teacher $3.00 per hour.
Tuition and any other fees are not waived but other types of financial assistance is available.

CALIFORNIA STATE UNIVERSITY, FRESNO
Department of Industrial Arts and Technology
Fresno, California 93740

GRADUATE COORDINATOR: Dr. R. Louis Gysler

DEGREE OFFERED: Master of Arts in Industrial Arts

DISCIPLINE BASE: Industrial Arts and Industrial Technology

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: 1. Professional Orientation

1.1 The program seeks to orient the student to and to reflect the purpose and philosophy of graduate education as brought forth by the Graduate School of California State University, Fresno the Department of Industrial Arts and Technology and other higher education institutions.

1.2 The program seeks to provide the student with an understanding of the developmental history of the industrial education field and profession and to project into future developments. Included as part of the orientation information would be such things as: professional organizations and societies; acknowledged leaders and innovators; noted industry institutions, and schools; the professional literature and significant writings.

1.3 The program seeks to demonstrate the interrelationships between the discipline of industrial education, the students area of specialization within the field, and related fields of study and endeavor.

1.4 The program seeks to provide the opportunity for the student to develop a personal philosophical stance and set values within society and the profession of industrial education.

1.5 The program seeks to provide the opportunity for the enrichment of the student’s personal development
through the broadening of his repertoire of experience, in addition to professional and technical growth.

2. Professional development

2.1 The program seeks to provide the necessary acquisition of professional knowledge and technical competencies for advanced participation within the industrial education field.

2.2 The program seeks to extend and reinforce the knowledge and skills of industrial research, industrial development (project, product, process) and industrial management practices as used within the field of industrial education.

2.3 The program seeks to provide for the acquisition of new, and the extension of previous related management and manufacturing (or construction) knowledge and skills through both advanced specialized professional study and professional involvement in development of significant problem solutions.

2.4 The program seeks to provide the acquisition of highly proficient specialized knowledge and skills within one of the four program areas of emphasis; i.e., Profession industrial education, general industrial arts, technical industrial arts, or industrial technology.

3. Professional Contribution

3.1 The program seeks to contribute to the industrial education field and profession through all appropriate means offered by higher education as a result of the learning process; i.e., thesis or project, literature, and so on.

3.2 The program seeks to promote and support research, development, and administrative managerial activity in and related to the industrial education field and profession.

3.3 The program seeks to gather, structure, develop, and make available a body of professional knowledge pertinent to the industrial education field.

3.4 The program seeks to define and detail the teaching, development, and managerial sectors of the industrial education field and profession.

3.5 The program seeks to provide the industrial education field and profession with knowledgeable and highly competent teachers, administrators or manager, and technologists.
ADMISSION REQUIREMENTS: 880 minimum score on the Graduate Record Examination and a 2.5 minimum grade point average on a 4.0.

EVALUATION OF GRADUATE STUDENTS: A written candidacy examination is required. An oral final comprehensive examination is required and a thesis or thesis project is also required.

FEES: Tuition per semester- Resident $90.00
Out of State $790.00
Services per semester- $10.00 for both resident and out of state
Parking- $15.00
Application Fee- $20.00

FINANCIAL ASSISTANCE: University scholarships.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Industrial Education Department
Long Beach, California 90840

GRADUATE COORDINATOR: Dr. Paul E. Powell

DEGREE OFFERED: Master of Arts in Industrial Education

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: 1. To expand and increase competencies in one or more areas of specialization.
2. Develop maturity of thought and attitude toward their profession.
3. Gain insights into problems of professional leadership and knowledge to assume positions of leadership.
4. Obtain the necessary understandings to be able to engage in research resulting in contributions of knowledge in an atmosphere of freedom of inquiry.
5. Engage in an interchange of ideas between faculty and qualified students in a spirit of research and scholarship to enhance one's person and professional competencies.

ADMISSION REQUIREMENTS: A 2.5 minimum grade point average on a 5.0.
EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required but a thesis is a requirement for graduation.

FEES: 1 to 6 semester hours Resident $80.00
6.1 or more semester hours Resident $98.00
1 to 15 semester hours Out of State $52.50
15.1 or more semester hours Out of State $787.50
Application Fee- $20.00
Student I. D. Card- $1.00

FINANCIAL ASSISTANCE: No graduate assistantships available for people who have not graduated from California State University, Long Beach.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Center for Career Studies
Long Beach, California 90840

GRADUATE COORDINATOR: Dr. Norman Stanger

DEGREE OFFERED: Master of Arts in Vocational Education

DISCIPLINE BASE: Vocational Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: Prepare leaders for employment in vocational education settings.

ADMISSION REQUIREMENTS: A 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, a final comprehensive examination is required.

FEES: Tuition per semester- Resident $74.00
Out of State $798.00
Services per semester- $18.00 for both resident and nonresident

FINANCIAL ASSISTANCE: No financial assistance is available.
CALIFORNIA STATE UNIVERSITY, LOS ANGELES
Industrial Studies Department
Los Angeles, California 90032

GRADUATE COORDINATOR: Dr. Kenneth Phillips

DEGREES OFFERED: Master of Arts in Industrial Arts
Master of Arts in Vocational Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory.

PROGRAM OBJECTIVES:
1. Increase professional teaching skills.
2. Increase technical competencies.
3. Increase salary level.
4. Preparation for professional leadership.
5. Gain awareness of new programs and fundings.
6. Research an area of interest.
7. Provide internships for qualified applicants.

ADMISSION REQUIREMENTS: A 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required;
a thesis is required and in some cases
an internship is required.

FEES: Tuition per semester- Resident none
Out of State $38.00 per semester hour
Services per semester- $58.00 for both resident and nonresident.

FINANCIAL ASSISTANCE: One graduate teaching assistant, $906.00 per month and one laboratory teaching assistant,
$750.00 per month. Students have to pay all fees. Some scholarships are available.

HUMBOLDT STATE UNIVERSITY
Department of Industrial Arts and Technology
Humboldt, California 95521

GRADUATE COORDINATOR: Dr. Jason MCloney

DEGREE OFFERED: Master of Arts

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Supervisory
PROGRAM OBJECTIVES: Leadership in industrial arts, administration, supervision.

ADMISSION REQUIREMENTS: NTE Commons Examination and a 2.5 on a 4.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No formal evaluation is required however most students take the thesis option.

FEES: Tuition per quarter - Resident $48.00
     Out of State $570.00
Services per year - Resident $70.00

FINANCIAL ASSISTANCE: Student work study and student assistants are available.

PACIFIC UNION COLLEGE
Department of Industrial Education
Angwin, California 94508

GRADUATE COORDINATOR: Dr. Eugene Gasedy

DEGREE OFFERED: Master of Arts in Teaching Industrial Arts

DISCIPLINE BASE: Industrial Arts Teaching

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: To help the industrial arts teacher to do a better job in teaching and administration. How to make better courses of study etc.

ADMISSION REQUIREMENTS: Graduate record examination, and a 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A candidacy examination is required, and a final comprehensive examination is required.

FEES: Tuition per semester - Resident and out of State $2,500.00

FINANCIAL ASSISTANCE: Two graduate assistantships are available and all fees except $35.00 per quarter is waived.
SAN DIEGO STATE UNIVERSITY
Department of Industrial Studies
San Diego, California 92182

GRADUATE COORDINATOR: Dr. Gerald K. Hammer

DEGREE OFFERED: Master of Arts in Industrial Arts

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Can vary, but centers around philosophy, technical, and supervisory.

PROGRAM OBJECTIVES: The program grew out of teacher education, but now all courses include industrial technology. No courses are entirely technology oriented though. The majority of the MA candidates are nonteaching.

ADMISSION REQUIREMENTS: 950 on the Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students have a choice of either a final comprehensive examination or writing a thesis.

FEES: Tuition per semester- Resident $96.00 for 6 hours Out of State $52.50 per hour
Parking- $15.00

FINANCIAL ASSISTANCE: Nine graduate teaching assistants $1448.00 per semester per one class taught. No fees are waived. Other types of assistance is available.

SAN JOSE STATE UNIVERSITY
Division of Technology
San Jose, California 95192

GRADUATE COORDINATOR: Dr. L. Stephenson

DEGREE OFFERED: Master of Arts in Industrial Arts Education

DISCIPLINE BASE: Industry, Technology, and Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory.

PROGRAM OBJECTIVES: To provide the student with an educational
opportunity which will prepare him or her for a leadership role in education or in industry. The course work is designed to extend to technical and research competencies of the students.

ADMISSION REQUIREMENTS: Graduate Record Examination is used in some cases.

EVALUATION OR GRADUATE STUDENTS: Final comprehensive examination is required.

FINANCIAL ASSISTANCE: Work study and scholarships are available.

COLORADO

COLORADO STATE UNIVERSITY
Industrial Arts Department
Fort Collins, Colorado 80523

GRADUATE COORDINATOR: Dr. B. D. Hayes

DEGREE OFFERED: Master of Science

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: 1. Broaden and increase understanding of industrial arts.
                      2. Provide a balance of professional, technical and research experiences.
                      3. Expand the students written communication skills through a research paper or thesis

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVAULATION OF GRADUATE STUDENTS: No candidacy examination is required, a final comprehensive examination is required.

FEES: Tuition per semester- Resident $300.00
      Out of State $1,800.00

FINANCIAL ASSISTANCE: 8 graduate teaching assistantships $300.00 per month. 4 graduate research assistantships
$300.00 per month. All tuition is waived, but not all fees are waived. Other types of financial assistance is available.

UNIVERSITY OF NORTHERN COLORADO  
Department of Industrial Arts and Technology  
Greeley, Colorado 80639

GRADUATE COORDINATOR: Dr. Robert G. Hammond

DEGREE OFFERED: Master of Arts

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: The master's degree in industrial arts and technology at the University of Northern Colorado should serve to broaden the students understanding of the purpose and role of industrial arts and technology in public education. In addition, it is designed to increase technical knowledge and to improve teaching skills and techniques to make a more effective leader in the classroom and laboratory.

ADMISSION REQUIREMENTS: 2.7 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, a 6 hour comprehensive examination is required.

FEES: Tuition per quarter- Resident $153.00  
Out of State $612.00  
Services per quarter- $71.50 for both resident and nonresident.

FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $425.00 per month. Laboratory assistantships are also available $5.00 per hour. Not all fees are waived for graduate assistants.

UNIVERSITY OF SOUTHERN COLORADO  
Area of Industrial Teacher Education  
Pueblo, Colorado 80639

GRADUATE COORDINATOR: Dr. J. B. Morgan
DEGREE OFFERED: Master of Science in Industrial Education
DISCIPLINE BASE: Industrial Arts or Industrial Education
PROGRAM ORIENTATION: Philosophy, Technical, and Supervision.

PROGRAM OBJECTIVES: The meet the needs and aspirations of each student in our program. The program has a core of courses required of each student. The remaining courses are guided electives to meet each student's needs.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, a written and oral final comprehensive examination, and an internship is required for graduation.

FEES: Tuition: Resident $200.00
Out of State $800.00
Services: $100.00 for both resident and out of state.

FINANCIAL ASSISTANCE: No financial assistance available.

CONNECTICUT

CENTRAL CONNECTICUT STATE COLLEGE
Department of Industrial Arts
New Britain, Connecticut 06050

GRADUATE COORDINATOR: Dr. A. Erickson

DEGREE OFFERED: Master of Science in Industrial Education
DISCIPLINE BASE: Teacher Education
PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory.
PROGRAM OBJECTIVES: To provide advanced study beyond the B. S. in industrial arts education.

ADMISSION REQUIREMENTS: Both the Graduate Record Examination and the Miller Analogies Test is required plus a 3.0 minimum grade point average.
EVALUATION OF GRADUATE STUDENTS: Students have the option of taking a final comprehensive examination, or a thesis.

FEES: Tuition per semester hour- Both resident and nonresident $40.00 to $50.00.

FINANCIAL ASSISTANCE: 3 graduate assistantships $1,200.00 per semester and all fees are waivered. Other types of financial assistance is available.

CENTRAL CONNECTICUT STATE COLLEGE
Vocational Technical Education Department
New Britain, Connecticut 06050

GRADUATE COORDINATOR: ---

DEGREE OFFERED: Master of Science in Vocational Technical Education

DISCIPLINE BASE: Professional

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: 1. Prepare coordinators of cooperative work experience programs.
2. Prepare supervisory and administrative personnel for vocational schools.
3. Provide a broad base M.S. degree in vocational education for persons wanting this exposure.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, a written final comprehensive examination is required.

FEES: Tuition per semester hour- Both resident and nonresident $40.00.

FINANCIAL ASSISTANCE: Graduate assistantships are offered but none in 1978-79, when offered the rate of pay is $220.00 per month. All other fees are waivered. Other types of assistance is available.

FLORIDA
FLORIDA A&M UNIVERSITY  
Department of Industrial Education  
Tallahassee, Florida 32307  

GRADUATE COORDINATOR: Dr. F. Irvine  

DEGREES OFFERED: Master of Science in Industrial Education  
Master of Education in Industrial Education  

DISCIPLINE BASE: Industry  

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory  

PROGRAM OBJECTIVES: To train perspective administrators and/or teacher educators.  

ADMISSION REQUIREMENTS: 1,000 on the Graduate Record Examination or a 3.0 minimum grade point average.  

FEES: Tuition per quarter- Resident $22.00  
Out of State $62.00  

FINANCIAL ASSISTANCE: 1 Graduate Teaching Assistantship $160.00 per month. Student has to pay all other fees. No other types of assistance is available.  

UNIVERSITY OF SOUTH FLORIDA  
Department of Adult and Vocational Education,  
Division of Trade and Industrial Education.  
Tampa, Florida 33620  

GRADUATE COORDINATOR: Dr. Raymond Hill  

DEGREE OFFERED: Master of Arts in Industrial Technology Education  

DISCIPLINE BASE: Industry  

PROGRAM ORIENTATION: Supervisory  

OBJECTIVES: 1. Add to and expand teaching competencies.  
2. Gain competencies in administration, supervision, coordination, etc.  
3. Indepth understanding of economical, social, etc. of education.
ADMISSION REQUIREMENTS: 1,000 on the Graduate Record Examination or a 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, an oral final examination and an internship if not completed in BA program is required.

FEES: Tuition per quarter hour- Resident $22.00 Out of State $62.00

FINANCIAL ASSISTANCE: Occasionally graduate assistantships are available, $325.00 per month. Students have to pay in state tuition, out of state tuition is waived. No other financial assistance is available.

FLORIDA INTERNATIONAL UNIVERSITY
Division of Vocational Education
Miami, Florida 33199

GRADUATE COORDINATOR: Dr. Dominic A. Mohamed

DEGREES OFFERED: Master of Science in Education in Curriculum and Instruction
Master of Science in Administration and Supervision in Vocational Education

DISCIPLINE BASE: Industry, Technology, Industrial Technology, and Technical

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Objectives are designed to be performance or competency based. Programs prepare practicing vocational educators to be master teachers and administrators of vocational education subjects.

ADMISSION REQUIREMENTS: 1,000 on the Graduate Record Examination, 3.0 minimum grade point average, and a 2,250 CLEP score.

EVALUATION OF GRADUATE STUDENTS: An internship is required:
FEES: Tuition per quarter hour- Resident $22.00
Out of State $62.00

FINANCIAL ASSISTANCE: 4 graduate teaching assistantships $5.00 per hour, 2 graduate research assistantships $5.00 per hour and 2 graduate assistantships $4.00 per hour. Students have to pay all other fees. Other types of financial assistance is available.

GEORGIA

GEORGIA SOUTHERN COLLEGE
Department of Instruction Adult and Vocational Education
Statesboro, Georgia 30458

GRADUATE COORDINATOR: Stanley G. Aman

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: To further develop teacher competencies in the field of industrial arts. To update the teacher with contemporary methods, content, and techniques in the industrial arts field. To solidify and expand the philosophy and professionalism within the industrial arts field. To develop a more comprehensive knowledge of industry and technology for public school industrial areas teachers.

ADMISSION REQUIREMENTS: 900 on the Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required a final comprehensive examination is required.

FEES: Tuition- Resident $182.00
Out of State $275.00

FINANCIAL ASSISTANCE: 1 graduate assistantship $256.00 per month, student has to pay all other fees. Other types of assistance is available.
UNIVERSITY OF GEORGIA
Department of Trade and Industrial Education
Athens, Georgia 30601

GRADUATE COORDINATOR: Dr. John L. Scott

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: 1. To provide master trade and industry teachers for our public schools.
2. To provide for persons who can read, interpret, and perform basic research in trade and industry education.

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination or 500 on the NTE Commons Examination and a 2.6 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, an oral final examination is required.

FEES: Tuition- Resident $185.00
Out of State $317.00
Services- Resident $51.00
Out of State $185.00

FINANCIAL ASSISTANCE: 1 graduate research assistantship $500.00 per month. Not all fees are waived and not other types of financial assistance is available.

HAWAII

UNIVERSITY OF HAWAII
College of Education
Honolulu, Hawaii 96822

GRADUATE COORDINATOR: Dr. Alm

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Technology
PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: Curriculum development, departmental leadership, etc. combined with curriculum and instruction.

EVALUATION OF GRADUATE STUDENTS: None required

FEES:

FINANCIAL ASSISTANCE: 2 graduate assistantships and tuition is waived ½ of the time. No other financial assistance is available.

ILLINOIS

BRADLEY UNIVERSITY
Department of Manufacturing
Peoria, Illinois 61606

GRADUATE COORDINATOR: Dr. Arnold Ness

DEGREE OFFERED: Master of Science in Industrial Operations

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: To provide advanced education in the technical management of 1) Production processes 2) Process planning and development 3) Product development 4) Technical sales and services 5) Nonmanufacturing support.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average and two years work experience.

EVALUATION OF GRADUATE STUDENTS: Students take both a candidacy examination and a final comprehensive examination.

FEES: Tuition per semester- Both resident and Out of State $1510.00

FINANCIAL ASSISTANCE: 2 graduate research assistantships $9.50 per hour and all fees waived.
CHICAGO STATE UNIVERSITY
Occupational Education Department
Chicago, Illinois 60628

GRADUATE COORDINATOR: Dr. Edward J. Reinhart

DEGREE OFFERED: Master of Science in Occupational Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVE: To educate a person in his/her technical and supervisory areas in order that they may be available for advancement in their fields.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None required

FEES: Tuition- Resident $51.50
Out of State $96.50

FINANCIAL ASSISTANCE: 5 half time graduate assistantships $300.00 per month. All other fees are waivered. Other types of financial assistance is available.

EASTERN ILLINOIS UNIVERSITY
School of Technology
Charleston, Illinois 61920

GRADUATE COORDINATOR: Dr. John R. Wright

DEGREES OFFERED: Master of Science in Education
Master of Science

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy

PROGRAM OBJECTIVES: 1. To develop an understanding of technology and its implications for industrial arts education.
2. To investigate the past, present and future developments of technology and their relationships to society, people and education.
ADMISSION REQUIREMENTS: Either the Graduate Record Examination or the Miller Analogies Test and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, a perscriptive oral final examination is required.

FEES: Tuition per semester hour- Resident $22.50
Out of State $67.50
Services per semester hour- Both resident and Out of State $7.65

FINANCIAL ASSISTANCE: 7 graduate laboratory assistantships $210.00 per month. Tuition is waived but students have to pay $7.65 per hour. No other financial assistance is available.

ILLINOIS STATE UNIVERSITY
Department of Industrial Technology
Normal, Illinois 61761

GRADUATE COORDINATOR: Dr. Gary Weede

DEGREES OFFERED: Master of Science in Industrial Technology
Master of Science in Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Technical, Safety, and Industrial Education

PROGRAM OBJECTIVES:

ADMISSION REQUIREMENTS: 2.4 minimum grade point average and a 2.6 on the professional degree.

EVALUATION OF GRADUATE STUDENTS: Students have an option of a thesis, additional hours, or a comprehensive examination.

FEES: Tuition- Resident $250.00
Out of State $750.00
Services- Both Resident and Out of State $153.00
FINANCIAL ASSISTANCE: 4 graduate teaching assistantships $310.00 per month and 2 graduate research assistantships $310.00 per month. All other fees are waived and no other types of financial assistance is available.

NORTHERN ILLINOIS UNIVERSITY
Department of Industry and Technology
DeKalb, Illinois 60115

GRADUATE COORDINATOR: Dr. Robert Brown and Dr. James Warner

DEGREES OFFERED: Master of Science
Master of Science in Education

DISCIPLINE BASE: Industry, Technology, and Industrial Technology, depending upon objectives of the student.

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: Master of Science: Primary objective is to build upon competencies developed at the baccalaureate level and prepare students to assume positions as supervisors of technologists in manufacturing industries, and instructors and/or directors of safety training programs in business and industry.
Master of Science in Education: Primary objective is to build upon competencies developed at the baccalaureate level and prepare students to assume positions as master teachers and/or administrators in industrial and technical education programs at the elementary, secondary, or junior college levels.

ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.5 on a 4.0 scale minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A comprehensive examination is required, the format is determined by the student.
FEES: Tuition per semester- Resident $250.00
Out of State $750.00
Services per semester- Both Resident and Out of State $140.00

FINANCIAL ASSISTANCE: 11 teaching assistantships $270.00 to $325.00, 3 graduate research assistantships $300.00 to $425.00. Tuition is waivered but students have to pay the service fee. Other types of financial assistance is available.

UNIVERSITY OF ILLINOIS
Department of Vocational and Technical Education
Urbana, Illinois 61801

GRADUATE COORDINATOR: Dr. Henry J. Sredl

DEGREE OFFERED: Master of Education in Vocational and Technical Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: The division is an active leader in reducing bias toward traditional roles, and in encouraging retaining for occupational mobility. Graduates are employed in leading universities, community colleges, school systems, businesses, and industry abroad. Is currently conducting research in score of projects valued at $800,000, involving issues on the forefront of the field.

ADMISSION REQUIREMENTS: Both the Graduate Record Examination and the Miller Analogies Test is required. A 4.0 on a 5.0 scale is required to be admitted.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive oral is required. A thesis and an internship is also required for graduation.
FINANCIAL ASSISTANCE: 5 graduate research assistantships $542.00. 3 graduate teaching assistantships $542.00. Several general vocational and technical education research assistantships $542.00. All fees are waived.

WESTERN ILLINOIS UNIVERSITY
Department of Industrial Education and Technology
Macomb, Illinois 61455

GRADUATE COORDINATOR: Dr. Herman Griesenbrock

DEGREE OFFERED: Master of Science in Industrial Technology

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: 1. To provide indepth educational experience for technology majors.
2. To provide indepth experiences for the teaching oriented student.
3. To provide experiences for the student interested in a career change.

ADMISSION REQUIREMENTS: 1050 on the Graduate Record Examination, and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: A candidacy examination is required to help when advising the student.

FEES: Tuition per semester hour- Resident $22.50
Out of State $67.50
Services- Both Resident and Out of State $82.50

FINANCIAL ASSISTANCE: 5 graduate assistantships were available. 2 graduate teaching assistantships $290.00. All fees except $93.75 are waived. Other types of financial assistance is available.
BALL STATE UNIVERSITY
Department of Industrial Education and Technology
Muncie, Indiana 47306

GRADUATE COORDINATOR: Dr. William H. Middleton

DEGREES OFFERED: Master of Arts
Master of Arts in Education

DISCIPLINE BASE: Industry and Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: 1. To provide a masters degree that is necessary for professionalization of the teaching license.
2. To provide the student an opportunity to acquire greater breadth and depth in laboratory skills.
3. To provide the student an opportunity to develop a greater insight in the professional development of a teacher.

ADMISSION REQUIREMENTS: None for admission but a 3.0 must be maintained after admitted.

EVALUATION OF GRADUATE STUDENT: None

FEES: Total cost per quarter- Resident $280.00
Out of State $560.00
$2.00 per hour of graduate credit

FINANCIAL ASSISTANCE: 10 laboratory assistantships $311.00 per month.
All fees except $64.00 per quarter waived.
Other types of assistance is available.

INDIANA STATE UNIVERSITY
School of Technology
Terre Haute, Indiana 47809

GRADUATE COORDINATOR: --

DEGREES OFFERED: Master of Arts in Industrial Arts
Master of Science in Industrial Arts

DISCIPLINE BASE: Industry and its supporting technologies.

PROGRAM ORIENTATION: Philosophy and Technical
PROGRAM OBJECTIVES: For most students the masters in Indiana is a fifth year of teacher education. Some additional emphasis is placed on research and on individual, independent study.

ADMISSION REQUIREMENTS: None

EVALUATION OF GRADUATE STUDENTS: A thesis is required depending upon degree selected by the student.

FEES: Total per semester hour - Resident $28.00
Out of State $31.00

FINANCIAL ASSISTANCE: 5 graduate assistantships $2,200.00 per academic year. All fees are waivered except $13.80 service fee. Other types of assistance is available.

INDIANA UNIVERSITY
Vocational Education Department
Bloomington, Indiana 47401

GRADUATE COORDINATOR: Dr. Thomas White

DISCIPLINE BASE: Vocational Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: 1. To improve the skills of vocational instructional personnel
2. To prepare vocational administrative personnel.
3. To provide the foundation for advanced graduate study.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average and an a statement of goals and three references.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per semester hour - Resident $38.00
Out of State $90.00

FINANCIAL ASSISTANCE: 5 graduate assistantships $220.00 to $400.00 per month. Tuition is waivered sometimes but students always have to pay $70.00 per semester. Other types of assistance is available.
PURDUE UNIVERSITY
Department of Industrial Education
West Lafayette, Indiana 47907

GRADUATE COORDINATOR: Dr. Roland Guay

DEGREE OFFERED: Master of Science

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES:
1. Development of professional teachers.
2. Development of leadership potential.

ADMISSION REQUIREMENTS: 5.0 no conditions, 4.8 to 5.0 conditional with references.

EVALUATION OF GRADUATE STUDENTS: A candidacy examination of masters project of thesis is required, it is an oral examination.

FEES: Tuition per semester- Resident $375.00
Out of State $850.00
Graduation Fee- $10.00

FINANCIAL ASSISTANCE: 12 graduate teaching assistantships $390.00. Tuition is waived but students have to pay $60.00 student activities and health fee. Other types of assistance is available.

IOWA

IOWA STATE UNIVERSITY
Industrial Education Department
Ames, Iowa 50011

GRADUATE COORDINATOR: Dr. William G. Miller

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industry, Technology, Industrial Technology, and Education

PROGRAM ORIENTATION: Supervisory
PROGRAM OBJECTIVES: Concentrations are provided in:
1. Industrial Arts
2. Vocational/Technical
3. Industry
4. Safety

ADMISSION REQUIREMENTS: Upper $\frac{1}{2}$ of B.S. degree class

EVALUATION OF GRADUATE STUDENT: Students who choose the thesis option have an oral defense of their thesis.

FEES: Tuition per quarter-
- Resident $286.00
- Out of State $606.00
Services per quarter-
- Both Resident and Out of State $14.00

FINANCIAL ASSISTANCE: 6 research assistantships $435.00 per month, 4 teaching assistantships $435.00 per month, and 2 administrative assistantships $435.00 per month. Part of tuition is waived depending upon state of residence. Other types of assistance is available.

UNIVERSITY OF NORTHERN IOWA
Department of Industrial Technology
Cedar Falls, Iowa 50613

GRADUATE COORDINATOR: Dr. Richard A. Swanson

DEGREES OFFERED: Master of Arts in Industrial Arts
Master of Arts in Technology

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Industrial arts graduate program is designed to prepare professionally competent educational personnel, such as highly qualified teachers at the elementary, secondary, and post-secondary level, and supervisors of industrial arts at the elementary and secondary level.

Technology program is designed for those people who wish to become:
1. Master vocational-technical teachers in area schools and or community colleges.
2. Supervisors or directors in area vocational-technical schools or community colleges.
3. Industrial supervisors or managers of service, sales research, and development, or industrial in-service educational programs

ADMISSION REQUIREMENTS: Graduate Record Examination, no minimum score, and a 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A candidacy examination is required and so is a final comprehensive examination either written or oral depending upon thesis or nonthesis requirements.

FEES: Tuition per semester- Resident $409.00 Out of State $840.00

FINANCIAL ASSISTANCE: 9 graduate assistantships $2,600.00 per year and all fees are waived. Other types of financial assistance is available.

KANSAS

EMPORIA STATE UNIVERSITY
Industrial Education Department
Emporia, Kansas 67846

GRADUATE COORDINATOR: Dr. D. M. Froelich

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Technology and Industrial Arts

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: To provide advanced preparation for the industrial arts teacher-professional and technical courses.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, an informal oral final examination is given.
FEES: Tuition- Resident $200.00
Out of State $500.00
Services- Both Resident and Out of State $70.00

FINANCIAL ASSISTANCE: 1 graduate teaching assistantship $261.00 per month. Tuition is reduced but student still has to pay some fees. Other types of assistance is available.

FORT HAYS STATE UNIVERSITY
Industrial Arts Department
Hays, Kansas 67601

GRADUATE COORDINATOR: Dr. Ruda

DEGREE OFFERED: Master of Science in Industrial Arts

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: Develop a background of industrial arts, its history, philosophy, and its direction of growth. Develop advanced expertise in industrial skills and knowledge. Develop industrial safety habits, skills, awareness, and practice related to industrial teaching and everyday living.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to take an oral and written final comprehensive.

FEES: Tuition- Resident $20.75
Out of State $40.75

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $235.00 per month. Tuition is not waivered but all other fees are waivered. Other types of assistance is available.

PITTSBURG STATE UNIVERSITY
Department of Industrial Arts
Department of Vocational, Technical Education
Pittsburg, Kansas 66762
GRADUATE COORDINATORS: I.A. Dr. F. V. Sullivan  
V.E. Dr. Ben Vineyard

DEGREE OFFERED: Master of Science

DISCIPLINE BASE: Depends upon major.

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES:
- Update teaching skills.
- Update and expand technical knowledge.
- Develop basic research ability.
- Keep up with developments in the field.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A candidacy examination is not required. Students have to take a written final examination over courses taken.

FEES: Tuition- Resident $255.25  
Out of State $555.25

FINANCIAL ASSISTANCE: 6 graduate assistantships $100.00 per month. One half of tuition is waived. No other types of financial assistance is available.

KENTUCKY

EASTERN KENTUCKY UNIVERSITY
Industrial Education and Technology Department  
Richmond, Kentucky 40475

GRADUATE COORDINATOR: Dr. C. Craft

DEGREES OFFERED: Master of Science in Industrial Education  
Master of Science in Industrial Technology  
Master of Arts in Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: All three, depending upon degree.

PROGRAM OBJECTIVES: --
ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.4 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a oral final comprehensive examination.

FEES: Tuition per semester- Resident $285.00
Out of State $710.00
Services per semester- Both Resident and Out of State $13.50

FINANCIAL ASSISTANCE: 6 graduate assistantships $2,700.00 for nine month school year, $3,000.00 for entire school year. Out of state tuition is waived. Other types of assistance is available.

MOREHEAD STATE UNIVERSITY
Department of Industrial Education and Technology
Morehead, Kentucky 40351

GRADUATE COORDINATOR: Dr. Don Hay

DEGREE OFFERED: Master of Science in Vocational Education

DISCIPLINE BASE: Vocational Education

PROGRAM ORIENTATION: Supervisory and some Technical

PROGRAM OBJECTIVES: To provide graduates with administrative and supervisory skills in vocational education with an emphasis in trade and industry. Plus a better understanding of of career and occupational and technical education.

ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required. An oral final comprehensive examination is required.

FEES: Tuition- Resident $275.00
Out of State $700.00

FINANCIAL ASSISTANCE: 4 graduate teaching assistantships $250.00 per month. 1 graduate research assistantship $250.00 per month. Student has to pay all other fees. No other financial assistance is available.
MURRAY STATE UNIVERSITY
Department of Industrial Education
Murray, Kentucky 42071

GRADUATE COORDINATOR: Dr. Paul Lyons

DEGREES OFFERED: Master of Science in Industrial Education
Master of Arts in Education
Master of Science in Industrial Education (VTE)

DISCIPLINE BASE: Industry, Technology, and Industrial Technology

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: 1. Prepare persons for teaching and supervisory positions in secondary and post secondary industrial education programs - community colleges and universities.
2. To prepare persons for entry into the field of business and industry in the area of training.
3. Prepare persons for entry into other fields where occupational or technical preparation is of prime importance.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Either a written or an oral final comprehensive examination is required depending upon the type of degree.

FEES: Tuition - Resident $635.00
    Out of State $710.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $240.00 per month. Tuition is waived but not all fees are waived. No other types of financial assistance is available.

UNIVERSITY OF KENTUCKY
Department of Vocational Education
Lexington, Kentucky 40506

GRADUATE COORDINATOR: Dr. Clayton Omvig

DEGREES OFFERED: Master of Science in Education (VE)
Master of Science in Education (IE)
DISCIPLINE BASE: Industry, Technology, and Industrial Technology

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination and 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: An oral final comprehensive examination is required.

FEES: Tuition per semester- Resident $313.00
Out of State $878.00

FINANCIAL ASSISTANCE: 1 graduate research assistantship $360.00 per month. Tuition is waivered but student has to pay laboratory fees. No other financial assistance is available.

WESTERN KENTUCKY UNIVERSITY
Department of Industrial Education and Technology
Bowling Green, Kentucky 42101

GRADUATE COORDINATOR: Dr. Donald D. Wendt

DEGREE OFFERED: Master of Arts in Education

DISCIPLINE BASE: Industrial Technology and Teacher Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: To improve the competencies of persons who are teaching in or administering industrial education programs.
To serve as the basis for entry into a specialist or doctoral degree program.
To maintain flexibility to meet the needs of students with varying backgrounds and aspirations.

ADMISSION REQUIREMENTS: 700 on the Graduate Record Examination or a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required, an oral final comprehensive examination is required.
LOUISIANA

LOUISIANA STATE UNIVERSITY
Industrial and Technical Education Department
Baton Rouge, Louisiana 70803

GRADUATE COORDINATOR: Dr. James G. McMurry

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industry, Technology, Industrial Technology, and Industrial Arts

PROGRAM ORIENTATION: Major emphasis upon Supervisory

PROGRAM OBJECTIVES: To enhance the effectiveness of the classroom or lab teacher. (Professional and Technical Competencies)
To provide training in supervisory, administration, and leadership positions in industrial education.
To provide exposure to and experience in research and research activities related to industrial education.
To promote professionalism in industrial education.

ADMISSION REQUIREMENTS: Graduate Record Examination or a 2.5 on a 4.0 scale.

EVALUATION OF GRADUATE STUDENTS: A written and oral final comprehensive examination is required for graduation.

FEES: Tuition- Resident $210.00
Out of State $410.00
Services- Both Resident and Out of State $15.00
Application Fee- $10.00

FINANCIAL ASSISTANCE: 1 graduate teaching assistantship $358.00
per month. 1 graduate research assistantship $358.00 per month. Tuition is waived and all student has to pay is the activity fee. No other types of assistance is available.

MAINE

UNIVERSITY OF SOUTHERN MAINE
Industrial Education Program
Gorham, Maine 04038

GRADUATE COORDINATOR: Dr. Authur O. Berry

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Industry and Technology

PROGRAM ORIENTATION: Philosophy and Technical

PROGRAM OBJECTIVES: 1. Exhibit and acceptable degree of professional competence and proficiency essential for meeting educational and social challenges.
2. Show additional technical competencies and understandings in their major area of concentration.
3. Analyze and evaluate recent issues in industrial education, curriculum innovations and strategies for program improvement and or implementation.
4. Explain how the relationship between industrial education and technology and the academic disciplines affect the development of the learners for a contemporary culture.
5. Identify and research problems in industrial education and utilize the results of research for professional improvement.
6. Evaluate their interest in and potential for educational leadership or other service in or outside their area of concentration.

ADMISSION REQUIREMENTS: 40 on the Miller Analogies Test, 2.5 grade point average and 3 letters of reference.

EVALUATION OF GRADUATE STUDENT: Students take a written final examination based upon the program objectives.

FEES: Tuition per credit- Both Resident and Out of State $30.00
MARYLAND

UNIVERSITY OF MARYLAND
Industrial Education Department
College Park, Maryland  20742

GRADUATE COORDINATOR:  Dr. Joseph F. Luetkemeyer

DEGREES OFFERED:  Master of Arts in Industrial Education
                   Master of Education in Industrial Education

DISCIPLINE BASE:  Industry and Industrial Technology

PROGRAM ORIENTATION:  Philosophy and Supervisory

PROGRAM OBJECTIVES:  1. Broad understanding of education, i.e.
                      philosophy, history, issues, trends, and
                      function.
                      2. Understanding curriculum and instruction
                         in the area of industrial arts.
                      3. Understanding learning processes and learning
                         theory.
                      4. Competence in the reading, analysis, interpreta-
                         tion, and development of research in the field
                         of education and industrial arts.

ADMISSION REQUIREMENTS:  3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS:  All students have to take a 6 hour
                                    comprehensive examination. A thesis
                                    is required for all M.A. students and
                                    they must take a final oral on thesis.

FEES:  Tuition per credit-  Resident $60.00
       Out of State $105.00
       Parking-  Both Resident and Out of State $6.00

FINANCIAL ASSISTANCE:  3 graduate teaching assistantships $405.00
                       per month.  3 graduate research assistantships $405.00
                       per month. All fees are waived and other financial assistance is
                       available.
MASSACHUSETTS

FITCBURG STATE COLLEGE
Industrial Technology Department
Fitchburg, Massachusetts 01420

GRADUATE COORDINATOR: Dr. George B. James

DEGREES OFFERED: Masters in Industrial Education
Masters in Occupational Education

DISCIPLINE BASE: Technology and Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: Masters in Industrial Education
1. Update people teaching industrial arts.
2. Provide opportunities for people to advance themselves to better teaching positions or go into administration
3. Develop curriculum.

Masters in Occupational Education
1. Upgrade and update vocational teachers.
2. Teach vocational teachers about curriculum and advanced methods of teaching in shop areas.
3. Provide background and credentials for administration or vocational guidance counseling.

ADMISSION REQUIREMENTS: Miller Analogies Test and the undergraduate record are combined.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per credit- Resident $35.00
Out of State $42.00
Library and Campus Center- Both Resident and Out of State $10.00
Registration- Both Resident and Out of State $10.00

FINANCIAL ASSISTANCE: 2 graduate assistantships $3,000.00 per year.
All other fees are waived.

MICHIGAN
ANDREWS UNIVERSITY
Department of Industrial Education
Berrein Springs, Michigan  49104

GRADUATE COORDINATOR: Dr. Williams

DEGREE OFFERED: Master of Arts in Teaching

DISCIPLINE BASE: Industrial Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: Better equip the student professionally to meet the demands of the classroom.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: A written candidacy examination is required.

FEES: Tuition- Both Resident and Out of State $1,882.00

FINANCIAL ASSISTANCE: 1 graduate assistantship. No fees are waived but other types of assistance is available.

CENTRAL MICHIGAN UNIVERSITY
Department of Industrial Education and Technology
Mt. Pleasant, Michigan  48859

GRADUATE COORDINATOR: Dr. J. Barry DuVall

DEGREES OFFERED: Master of Science in Industrial Education
Master of Science in Industrial Technology
Master of Science in Industrial Supervision and Management
Master of Science in Vocational Education/Special Education

DISCIPLINE BASE: Technology or Industrial Technology, depending upon major.

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory, depending upon major.

PROGRAM OBJECTIVES: To improve the effectiveness of teachers of industrial arts, vocational industrial education, and technology education.
To improve the understanding of individuals regarding technology, and its impact on society.
To enable learners to experiment with change and develop strategies for coping with change in a rapidly changing world.
To prepare individuals as managers and supervisors capable of understanding the needs of people and solving real-world problems dealing with technology.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Either a thesis or an option of two supervised research studies is required.

FEES: Tuition- Resident $35.00
Out of State $77.00
There are several fees to numerous to mention but are listed in the University's Bulletin.

FINANCIAL ASSISTANCE: 4 graduate assistantships, stipends range from $4,300 to $5,000. Other types of assistance is also available.

EASTERN MICHIGAN UNIVERSITY
Department of Industrial Education
Ypsilanti, Michigan 48197

GRADUATE COORDINATOR: Dr. Delmar L. Larsen

DEGREE OFFERED: Master of Arts in Industrial Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy and Technical

PROGRAM OBJECTIVES: 1. Provide advanced preparation in professional, technical, and cognate areas.
2. Increase the competency of a teacher, supervisor, or administrator of industrial education in the areas of industry, foundations, curriculum, and research.
3. Develop an awareness and understanding of the philosophical, social, and economic foundations as bases for industrial education programs.
4. Produce professional personnel who will have the appropriate knowledge and competencies to promote and develop comprehensive and viable industrial education programs.
5. Provide considerable flexibility in the selection of courses to meet the needs of each student.
6. Enable the student to acquire a broad knowledge of literature in industrial education.
7. Provide a strong foundation for professional advancement and personal upgrading.

ADMISSION REQUIREMENTS: 2.25 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: None

FEES: Tuition per semester- Resident $39.00
Out of State $95.00
Registration fee- Both Resident and Out of State $20.00

FINANCIAL ASSISTANCE: 13 graduate teaching assistantships $394.00
and no fees are waived. No other types of financial assistance are available.

MICHIGAN STATE UNIVERSITY
Department of Secondary Education and Curriculum- Industrial Education
East Lansing, Michigan 48823

GRADUATE COORDINATOR: Dr. C. Blair MacLean

DEGREES OFFERED: Master of Arts in Industrial Education
Master of Science in Industrial Education

DISCIPLINE BASE: None

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: To provide for the professional development of teachers in the field and to provide a route to teaching at the community college and university level.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per credit- Resident $29.00
Out of State $57.50

FINANCIAL ASSISTANCE: None
UNIVERSITY OF MICHIGAN
Occupational Education Program
Ann Arbor, Michigan  49109

GRADUATE COORDINATOR: Dr. Gordon C. McMahon

DEGREES OFFERED: Master of Arts in Comprehensive Occupational Education
Master of Science in Allied Health

DISCIPLINE BASE: Comprehensive Occupational Education and Allied Health Occupations.

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: None

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per term- Resident $855.00
Out of State $1,915.00

FINANCIAL ASSISTANCE: No assistantships, only other types of assistance.

WAYNE STATE UNIVERSITY
Vocational and Applied Arts Education
Detroit, Michigan  48202

GRADUATE COORDINATOR: Dr. Patrick W. Miller

DEGREES OFFERED: Master of Education
Master of Arts in Teaching

DISCIPLINE BASE: Teacher Education

PROGRAM ORIENTATION: --

PROGRAM OBJECTIVES: Vocational and applied arts education is committed to the implementation of competency-based graduate programs. Programs leading to the Master of Education degree provide opportunity for emphasis in various curriculum areas which include business education, distributive education, family life education and industrial education.

ADMISSION REQUIREMENTS: 2.6 minimum grade point average.
EVALUATION OF GRADUATE STUDENTS: A Master of Arts student teaching is required.

FEES: --

FINANCIAL ASSISTANCE: None

WESTERN MICHIGAN UNIVERSITY
Industrial Education Department
Kalamazoo, Michigan 49008

GRADUATE COORDINATOR: Dr. Charles G. Risher

DEGREE OFFERED: Master of Arts in Teaching of Industrial Education

DISCIPLINE BASE: Industrial Technology and Industrial Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: 1. Improve teaching capabilities.
2. Advance vocational education administrative capabilities.
3. Prepare industrial management and supervision personnel.
4. Provide for development of advanced technical skills and knowledge.

ADMISSION REQUIREMENTS: 2.6 minimum grade point average on a 4.0 scale.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per semester hour- Resident $34.50
Out of State $77.75
Services- Both Resident and Out of State $10.00 for less than 3 credit hours.

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $3,600.00 for 8 month academic year. Tuition is not waived nor are any other fees. Other financial assistance is available.
MANKATO STATE UNIVERSITY
Industrial and Technical Studies
Mankato, Minnesota 56601

GRADUATE COORDINATOR: Dr. Gordon Gavin

DEGREES OFFERED: Master of Science in Industrial Education
Master of Science in Industrial Education Vocational Track

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: 1. To develop technical understanding.
2. To develop advanced skills.
3. To acquaint individuals with modern industrial practices.
4. To develop curriculum materials.
5. To develop teaching skills.

ADMISSION REQUIREMENTS: 1000 on the Graduate Record Examination and a
2.65 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: No candidacy examination is required
but a written final comprehensive examination is required.

FEES: Tuition per quarter credit hour- Resident $13.65
Out of State $27.40

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $2,500.00
for 3 quarters. No fees are waived and no
other types of assistance is available.

MOORHEAD STATE UNIVERSITY
Department of Industrial Studies
Moorhead, Minnesota 56560

GRADUATE COORDINATOR: Dr. Clyde O. Kale

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industrial Education

PROGRAM ORIENTATION: Supervisory
PROGRAM OBJECTIVES:

1. To provide coursework emphasizing study of history and philosophy of industrial and vocational education.
2. To provide opportunity for class discussion, literature review, and outside resource individuals so that the candidate can synthesize and develop a personal philosophy regarding industrial and vocational education.
3. To provide coursework and the opportunity to develop curriculum derived from an analysis of an occupation, and the development of instructional aids to supplement the methods used to teach the curriculum.
4. To provide the theory and practice required to make the learner proficient in developing teacher-made tests which effectively measure the extent of learner achievement. The student will be able to establish evaluation procedures based on either norm-referenced criterion-referenced standards.
5. To provide classroom work dealing with the organization of school shops and laboratories and administration of practical arts and vocational education programs.
6. To provide coursework necessary for the candidate to gain an understanding of career education, how individuals make occupational choices, and how the industrial education teacher relates to the vocational guidance program in the school.
7. To provide coursework and laboratory/shopwork to upgrade the teacher's skill area speciality.
8. To provide the necessary background in the psychological foundations of education so that the student has a basis for developing sound learning and teaching theories.
9. To provide the learner with the opportunity to preform applied research in an area of his or her choosing.
10. To provide the candidate with a graduate program of sufficient flexibility to allow for some individualization of that program.

ADMISSION REQUIREMENTS: 1000 on the Graduate Record Examination and a 2.65 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final written comprehensive examination is required.

FEES: Tuition per credit- Resident $24.25
Out of State $24.25
Services per quarter - Both Resident and Out of State $36.00

FINANCIAL ASSISTANCE: No graduate assistantships are available, only student work study.

UNIVERSITY OF MINNESOTA
Division of Industrial Education
Minneapolis, Minnesota 55455

GRADUATE COORDINATOR: Dr. David Bjorkquist

DEGREES OFFERED: Master of Arts in Industrial Education
Master of Education in Industrial Education

DISCIPLINE BASE: Education

PROGRAM ORIENTATION: M.Ed.- Instruction M.A.- Further Graduate Study

PROGRAM OBJECTIVES: Master of Education- Develop pedagogical and or technical competencies to become a master teacher.
Master of Arts- Introduction to advanced study

ADMISSION REQUIREMENTS: Miller Analogies Test and a 2.75 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: A final written comprehensive examination is required.

FEES: --

FINANCIAL ASSISTANCE: 9 graduate teaching assistantships $666.00 per month. 2 graduate research assistantships $666.00 per month. Tuition is not waivered and students have to pay resident tuition.

UNIVERSITY OF MINNESOTA - DULUTH
Department of Industrial and Technical Studies
Duluth, Minnesota 55812

GRADUATE COORDINATOR: --

DEGREES OFFERED: Master of Industrial Safety
Master Education
DISCIPLINE BASE: Industry and Industrial Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Master of Industrial Safety- To prepare qualified personnel for safety, supervision, and management positions in business, government, and industry. Master Education- Traditional industrial and vocational teacher education graduate program- career advancement etc.

ADMISSION REQUIREMENTS: Other

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per quarter- Resident $254.00 Out of State $724
       Services per quarter- Resident $23.00 Out of State $65.00

FINANCIAL ASSISTANCE: No graduate assistantships, only fellowships.

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY
Industrial and Occupational Education Department
Mississippi State, Mississippi 39762

GRADUATE COORDINATOR: Dr. R. J. Vasek

DEGREES OFFERED: Master of Education in Industrial Education
       Master of Science in Industrial Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Philosophy, methods, communications, and trends.

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination is required. The Master of Science degree requires a thesis.

FEES: Tuition per semester- Resident $360.00 Out of State $300.00
       Services per semester- Both Resident and Out of State $5.00
FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $400.00 per month. 2 graduate research assistantships $400.00 per month. Only out of state tuition is waived. Other types of assistance is available.

MISSOURI

CENTRAL MISSOURI STATE UNIVERSITY
Industrial Arts and Technology
Warrensburg, Missouri  64093

GRADUATE COORDINATOR: Dr. Robert E. Goetz

DEGREES OFFERED: Master of Science
   Master of Science in Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy and Technical

PROGRAM OBJECTIVES:  1. Enable students to achieve a greater depth of understanding in an industrial teaching area such as graphic arts, power, or to enable them to receive greater breadth of understanding and skills in other industrial areas.
   2. Prepare students for continued work in industrial arts and technology education.
   3. Enable industrial arts and technology teachers to advance toward a goal which they may have chosen.
   4. Prepare students to collect, organize, and utilize research material findings in an acceptable rhetorical style.

ADMISSION REQUIREMENTS: Either the Graduate Record Examination or the Miller Analogies Test, and a 2.1 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination is required.

FEES: Tuition per quarter- Resident $130.00
       Out of State $330.00

FINANCIAL ASSISTANCE: 5 graduate assistantships, 2 graduate teaching assistantships $255.00 per month. Only out of state fees are waived. Other assistance is available.
NORTHEAST MISSOURI STATE UNIVERSITY  
Practical Arts Division  
Kirksville, Missouri  63501  

GRADUATE COORDINATOR: Dr. Robert L. Stephens  

DEGREE OFFERED: Master of Arts in Industrial Education  

DISCIPLINE BASE: Industry  

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory  

PROGRAM OBJECTIVES: Three options are available: 1) for the student desiring further advanced degrees, post-secondary teaching and or supervisory positions in industrial education. 2) post-secondary teaching or secondary supervision in industrial education. 3) for students wishing to become master teachers and or department supervisors in secondary education.  

ADMISSION REQUIREMENTS: A minimum score on the Miller Analogies test of 25 or a 2.5 minimum grade point average.  

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination, both written and oral is required.  

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $220.00-$280.00 per month. All fees are waived and other financial assistance is available.  

NORTHWEST MISSOURI STATE UNIVERSITY  
Department of Industrial Arts Education and Technology  
Maryville, Missouri  64468  

GRADUATE COORDINATOR: Dr. John Rhoades  

DEGREE OFFERED: Master of Science in Industrial Arts Education  

DISCIPLINE BASE: Industrial Arts Education  

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory  

PROGRAM OBJECTIVES: 1. To provide for advanced coursework concerning industry, including processes of technological development resulting from industrial advancement. 2. To provide experiences for organization of subject materials in the field of industrial arts education.
3. To improve the qualifications of industrial arts teachers by providing advanced study in skill areas of industrial arts through advanced courses; independent study and investigation in these skill areas.

4. To provide graduate level instruction for those who will be seeking advanced degree programs in industrial arts education and who will be assuming leadership functions in the field of industrial arts education.

5. To provide opportunity for interpretation and application of findings of related research in the field of industrial arts education.

ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.2 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: No candidacy examination required, a written final comprehensive examination is required.

FEES: Tuition per semester- Both Resident and Out of State $190.00

FINANCIAL ASSISTANCE: 2 laboratory assistantships $125.00 tuition is waived but students have to pay $60.00 each semester. No other financial assistance is available.

SOUTHEAST MISSOURI STATE UNIVERSITY
Department of Industrial and Technical Education
Cape Girardeau, Missouri 63701

GRADUATE COORDINATOR: Dr. Bill Stacy

DEGREE OFFERED: Master of Arts in Teaching

DISCIPLINE BASE: Industrial Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES:

ADMISSION REQUIREMENTS: 2.25 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a final comprehensive examination.
FEES: Tuition- Both Resident and Out of State $150.00
Services- Both Resident and Out of State $62.00

FINANCIAL ASSISTANCE: 1 graduate assistantship. All fees except the the graduation fee is waived. Other types of
financial assistance is available.

SOUTHWEST MISSOURI STATE UNIVERSITY
Department of Industrial Education and Technology
Springfield, Missouri 65802

GRADUATE COORDINATOR: Dr. Orin R. Robinson

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Industrial Education and Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: To meet the educational needs and interests of the student.
To prepare a master teacher.
To expand the students ability to perform those teaching assignments which he or she hopes to be involved in the future.

ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written comprehensive final examination is required.

FEES: Tuition per semester- Resident $200.00
          Out of State $450.00
Graduation fee- $10.00

FINANCIAL ASSISTANCE: None

UNIVERSITY OF MISSOURI-COLUMBIA
Industrial Education
Columbia, Missouri 65201

GRADUATE COORDINATOR: Dr. Bob Stewart

DEGREES OFFERED: Master of Arts
              Master of Education
DISCIPLINE BASE: Industry, Technology, and Industrial Technology

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: Prepare students to assume a leadership role in their profession as well as to become master teachers of their discipline.

ADMISSION REQUIREMENTS: Either the Graduate Record Examination or the Miller Analogies Test and a minimum grade point average of 3.0.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a written and oral final comprehensive examination.

FEES: Tuition- Resident $396.00
Out of State $792.00
Services- Both Resident and Out of State $22.00

FINANCIAL ASSISTANCE: 12 curriculum development assistantship $460.00 per month. 8 graduate teaching assistantships $460.00 per month. 5-10 research assistantships $460.00 per month. Only out of state tuition is waivered. Assistants have to pay $418.00 each term. No other assistance is available.

MONTANA

NORTHERN MONTANA COLLEGE
Vocational Technical Division
Harve, Montana 59501

GRADUATE COORDINATOR: Dr. Warren Gardner

DEGREES OFFERED: Master of Education in Vocational-Technical Education
Master of Science in Industrial Arts

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Teacher training and supervisory training

ADMISSION REQUIREMENTS: Graduate Record Examination
EVALUATION OF GRADUATE STUDENTS: Students are required to take a written and oral final examination.

FEES: Tuition per quarter- Resident $159.00
Out of State $336.00

FINANCIAL ASSISTANCE: Graduate assistantships are offered from time to time, all fees are waived. No other financial assistance is available.

NEBRASKA

CHADRON STATE COLLEGE
Department of Industrial Education
Chadron, Nebraska 69337

GRADUATE COORDINATOR: Dr. Bruce Bartels

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: To assist students in acquiring those qualities found necessary for leadership in the education profession. To increase the effectiveness of public school teaching by broadening and deepening the preparation of teachers in both the academic fields of professional education. To select and develop professionally those candidates who have demonstrated the leadership and academic competence essential for becoming superior teachers, counselors, and educational administrators. To provide the intellectual stimulation and foundation for more advanced study. To help teachers interpret current thinking and practice in the field of education by understanding and applying the findings of educational research. To acquaint candidates with the nature and significance of research and provide opportunities for the application of research techniques. To provide rigorous core program of advanced courses in such a flexible arrangement that the individual needs of the teacher may be met.
ADMISSION REQUIREMENTS: Either the Graduate Record Examination, the Miller Analogies Test, or a 2.25 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a final comprehensive oral examination.

FEES: Tuition per hour- Resident $17.50
Out of State $27.50

FINANCIAL ASSISTANCE: 2 graduate assistantships, tuition is waivered, but the student has to pay the services fee. Other types of assistance is available.

KEARNEY STATE COLLEGE
Department of Industrial Education
Kearney, Nebraska 68847

GRADUATE COORDINATOR: Dr. Warren B. Messman

DEGREE OFFERED: Master of Arts in Education

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: To improve the professional competencies of industrial arts and trade and industrial education teachers. To provide course experiences that are approximate for school administrators and related supervisory personnel. To provide course experiences in appropriate subjects for teachers in other areas and for those desiring such courses for personal enrichment.

ADMISSION REQUIREMENTS: Graduate Record Examination or at least a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written and oral final comprehensive examination is required.

FEES: Tuition per semester hour- Resident $18.00
Out of State $32.00
Service fee per semester- Both Resident and Out of State $41.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $2,500.00 per year. Tuition is waivered and no other types assistance is available.
KEARNEY STATE COLLEGE
Center for Vocational Education
Kearney, Nebraska 68847

GRADUATE COORDINATOR: Mr. Lyle Colsden

DEGREE OFFERED: Master of Science in Vocational Education

DISCIPLINE BASE: Interdiscipline

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: 750 on the Graduate Record Examination and a 2.2 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a written and oral final comprehensive examination.

FEES: Tuition- Resident $17.00
Out of State $30.00

FINANCIAL ASSISTANCE: 1 graduate assistantship $250.00 per month. All fees are waived and there is no other financial assistance available.

UNIVERSITY OF NEBRASKA-LINCOLN
Center for Vocational Teacher Education
Lincoln, Nebraska 68508

GRADUATE COORDINATOR: Dr. Hazel Crain

DEGREES OFFERED: Master of Arts in Vocational Education
Master of Science in Vocational Education
Master of Education in Vocational Education

DISCIPLINE BASE: Vocational Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: To graduate professional educators.

ADMISSION REQUIREMENTS: Either the Graduate Record Examination or the Miller Analogies Test.
EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination is required. A thesis is required, depending upon the degree selected.

FEES: Tuition per semester hour - Resident $22.00
Out of State $61.00

FINANCIAL ASSISTANCE: 8 graduate assistantships, both research and teaching $400.00 per month. Tuition is not waived and there is no other financial assistance available.

WAYNE STATE COLLEGE
Applied Science Division
Wayne, Nebraska 68787

GRADUATE COORDINATOR: Dr. Bart Ciampa

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industry, Technology, and Industrial Technology

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: This program is designed to provide advanced instruction in industrial education for 1) the teacher in the field who holds a standard teaching certificate but wishes to increase his professional competence, 2) those who wish to become secondary school industrial education supervisors and administrators, 3) those who wish to become qualified to teach in community colleges or other higher educational programs, 4) those who desire vocational certification.

ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination is required in essay form.

FEES: Tuition- Resident $17.00
Out of State $30.00
Services- Both Resident and Out of State $56.00
Matriculation- $10.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $370.59 per month. All fees, up to 9 hours are waived. No other types of assistance is available.
NEW JERSEY

GLASSBORO STATE COLLEGE
Department of Industrial Education and Technology
Glassboro, New Jersey 08028

GRADUATE COORDINATOR: Dr. Michael P. Gue'rdard

DEGREE OFFERED: Master of Arts in Industrial Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: The general program in industrial education, leading to a master's degree in industrial education is designed to increase the competencies of classroom teachers, supervisors, and administrators of industrial education, and selected vocational personnel in: 1) administration and management, 2) history and philosophy, 3) curriculum, instruction and evaluation, 4) technical development and 4) research.

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a final comprehensive examination, a thesis, and for vocational/special needs option, an internship.

FEES: Tuition per semester hour- Resident $45.00 Out of State $65.00
Services per semester- Both Resident and Out of State $6.60

FINANCIAL ASSISTANCE: 2 graduate assistantships $300.00 per month. Tuition is waived up to 33 semester hours over a 10 month period. Students have to pay the services fee and there are other types of assistance available.

MONTCLAIR STATE COLLEGE
Industrial Education and Technology Department
Upper Montclair, New Jersey 07043

GRADUATE COORDINATOR: Dr. Authur W. Earl
DEGREE OFFERED: Master of Arts in Industrial Education

DISCIPLINE BASE: Industry and Industrial Arts

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: 1. To participate in the academic life of the college as a teacher, counselor, lab assistant, or other assignments appropriate to the college mission.

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination and a 2.67 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: Students are required to complete a written comprehensive examination prepared by the graduate faculty.

FEES: Tuition- Resident $45.00
Out of State $65.00
Services- Both Resident and Out of State $36.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $300.00 per month. All fees are waived and no other types of financial assistance is available.

RUTGERS UNIVERSITY—THE STATE UNIVERSITY OF NEW JERSEY
Department of Vocational—Technical Education
New Brunswick, New Jersey 08903

GRADUATE COORDINATOR: Dr. Carl J. Schaefer

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Trade and Industrial

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: The masters degree program is designed to prepare master teachers to assume the professional responsibilities of teacher of trade and industrial education in secondary and post-secondary institutions.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.
EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination is required. An internship is also a requirement.

FEES: Tuition per credit- Resident $45.00
Out of State $65.00
Service fee, full time- Both Resident and Out of State $87.00

FINANCIAL ASSISTANCE: 3 graduate research assistantships $4,500.00 per year. All fees are waived and other types of financial assistance is available.

TRENTON STATE COLLEGE
Division of Industrial Education and Technology
Trenton, New Jersey 08625

GRADUATE COORDINATOR: Dr. Nroman L. Asper

DEGREES OFFERED: Master of Education in Industrial Education
Master of Arts in Industrial Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy and Technical

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: None

EVALUATION OF GRADUATE STUDENTS: A final written comprehensive examination is required and a thesis is also required.

FEES: Tuition- Resident $45.00
Out of State $65.00
Services- Both Resident and Out of State $2.50

FINANCIAL ASSISTANCE: 7 graduate research assistantships $250.00 per month. All fees are waived. No other types of assistance is available.

NEW MEXICO
EASTERN NEW MEXICO UNIVERSITY
School of Technology
Portales, New Mexico 88130

GRADUATE COORDINATOR: Dr. Howard Melton

DEGREE OFFERED: Master of Education in Secondary Education-Industrial Education

DISCIPLINE BASE: --

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Develop an awareness of relationship between industrial arts and vocational education, trade and industry in particular.
Develop an awareness of problems relating to organization and administration of practical arts and vocational education programs.
Develop an awareness of innovative programs.
Develop an awareness of opportunity to build technical skills.

ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination is required.

FEES: Tuition per semester- Resident $249.25
Out of State $603.60
Services per year- Both Resident and Out of State $34.00

FINANCIAL ASSISTANCE: 1 graduate teaching assistantship $3,850.00 per year. Tuition is waivered but student has to pay for services fee.

NEW MEXICO RICHLANDS UNIVERSITY
Department of Industrial Education and Technology
Las Vegas, New Mexico 87701

GRADUATE COORDINATOR: Dr. Leo Martinez

DEGREE OFFERED: Master of Arts in Industrial Education

DISCIPLINE BASE: Industry, Technology and Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory
PROGRAM OBJECTIVES: The graduate program primarily is for teachers of secondary level industrial arts with an emphasis upon philosophy, history, industrial materials and processes, and specialization in technical areas of electricity, electronics, metals, drafting, and curriculum development. The goal is to effect the quality of learning and teaching. The objective is to assist teachers in becoming better teachers and more knowledgeable about industrial education.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are given an oral candidacy examination. They also have to take a written and oral final comprehensive examination.

FEES: Tuition per hour- Resident $21.00
Out of State $36.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $275.00 per month. 1 graduate research assistantship $275.00 per month. All fees are waived and other types of financial assistance is available.

NEW YORK

NEW YORK UNIVERSITY
Department of Technology and Industrial Education
New York, New York 10003

GRADUATE COORDINATOR: Dr. Marshall Hahn

DEGREE OFFERED: Master or Arts in Technology and Industrial Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: To prepare administrators and supervisors of vocational and industrial arts education. To improve industrial arts teaching. To prepare people for lower level management in industry.
To provide track for retraining of individuals from other fields for teaching industrial arts.

ADMISSION REQUIREMENTS: None

EVALUATION OF GRADUATE STUDENTS: A thesis is required by all students as a culminating experience.

FEES: Tuition- Both Resident and Out of State $126.00

FINANCIAL ASSISTANCE: No graduate assistantships were offered this year. When offered, $300.00 per month and all fees are waived. No other types of financial assistance is available.

STATE UNIVERSITY COLLEGE AT BUFFALO
Industrial Arts and Vocational Education Department
Buffalo, New York 14222

GRADUATE COORDINATOR: --

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Trade and Industrial

PROGRAM ORIENTATION: --

PROGRAM OBJECTIVES: Vocational-Technical- extend and improve the professional competencies of occupational teachers.

ADMISSION REQUIREMENTS: 1000 on the Graduate Record Examination or a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition- Resident $700.00
Out of State $900.00
Services- Both Resident and Out of State $12.50

FINANCIAL ASSISTANCE: None

STATE UNIVERSITY COLLEGE AT OSWEGO
Department of Industrial Arts and Technology
Oswego, New York 13126
GRADUATE COORDINATOR: Dr. J. Michael Adams

DEGREE OFFERED: Master of Science in Industrial Arts Education

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: 1. To provide permanent certification for provisionally certified teachers in the state of New York
2. To provide a philosophical, technical, and pedagogical base for skillful classroom teaching.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average and letters of recommendations

EVALUATION OF GRADUATE STUDENTS: Students are required to take a candidacy examination and are required to complete a thesis.

FEES: Tuition per semester hour- Resident $58.50
Out of State $75.00
Services per semester hour- Both Resident and Out of State $.85
Student fee- $2.50 per semester

FINANCIAL ASSISTANCE: 6 graduate research assistantships $300.00 per month. 1 graduate teaching assistantship $300.00 per month. All fees are waived and other types of financial assistance is available.

STATE UNIVERSITY COLLEGE AT UTICA/ROME
Department of Vocational-Technical Education
Utica, New York 13502

GRADUATE COORDINATOR: Mr. Justice M. Cheney

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Industry and Technology

PROGRAM ORIENTATION: Supervisory and Teacher Certification

PROGRAM OBJECTIVES: The program is designed with flexibility to permit each student to pursue and individualized career concentration in Vocational-Technical education. The graduate program offers these teachers an opportunity to prepare other staff responsibilities.
ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination is required. A thesis is also a requirement.

FEES: Tuition per year-  Resident $1,400.00
Out of State $1,800.00
Services- Both Resident and Out of State $37.00
Placement- $10.00

FINANCIAL ASSISTANCE: 2 graduate research assistantships $300.00 per month. All fees are waived and other types of financial assistance is available.

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY
Department of Industrial Arts and Technical Education
Boone, North Carolina 28608

GRADUATE COORDINATOR: Dr. Al Rapp

DEGREE OFFERED: Master of Arts in Secondary Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: To provide an additional dimension to professional development through experiences which includes skill development where appropriate

ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: A oral final comprehensive examination is required.

FEES: Tuition per semester-  Resident $294.75
Out of State $1,154.75

FINANCIAL ASSISTANCE: 6 graduate teaching assistantships $255.00 per month. Fees are not waived but other types of financial assistance is available.
NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY
Department of Industrial Education
Greensboro, North Carolina 27411

GRADUATE COORDINATOR: Dr. Robert B. Pyle

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Technology and Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Develop teachers into master teachers. Provide curriculum expertise. Provide administrative leadership programs. Provide technical expertise at the graduate level.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final written and oral comprehensive examination is required.

FEES: Tuition- Resident $155.00
Out of State $1,007.00
Services- Both Resident and Out of State $559.50

FINANCIAL ASSISTANCE: 2 graduate assistantships are available, 1 graduate teaching assistantship. No fees are waived but other types of financial assistance is available.

NORTH CAROLINA STATE UNIVERSITY
Occupational Education
Raleigh, North Carolina 27607

GRADUATE COORDINATOR: Dr. Durwin M. Hanson

DEGREES OFFERED: Master of Science in Industrial Arts Education
Master of Science in Vocational Education
Master of Science in Occupational Education

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Develop instructional competencies as master teachers. Develop administrative and supervisory competencies to qualify for state and or local supervisory positions.
ADMISSION REQUIREMENTS: Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination, either written or oral is required.

FEES: Tuition- Resident $165.00
       Out of State $988.00
Services- Both Resident and Out of State $97.15

FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $400.00 to $600.00 per month. 1 field extension service assistantship $350.00 to $500.00 per month. No fees are waived and no other types of assistance is available.

WESTERN CAROLINA UNIVERSITY
Department of Industrial Education and Technology
Cullowhee, North Carolina 28723

GRADUATE COORDINATOR: Dr. George W. Reeser

DEGREES OFFERED: Master of Industrial Education
                  Master of Industrial Technology

DISCIPLINE BASE: Industrial Technology and Industrial Arts

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: Master of Industrial Education To prepare master teachers for secondary and or community colleges and technical institutes. Master of Industrial Technology To prepare middle or first line managers of industrial plants.

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination, 1100 on the National Teachers Examination, and a 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: An oral final comprehensive examination is required.

FEES: Tuition- Resident $155.00
       Out of State $1024.00
       Services- Both Resident and Out of State $135.00
       Application- $10.00
FINANCIAL ASSISTANCE: 4 graduate teaching assistantships $300.00 per month. Work study assistantships $200.00 per month. Only out of state tuition is waived. Other types of assistance is available.

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA
Department of Industrial Technology
Grand Forks, North Dakota 58201

GRADUATE COORDINATOR: Dr. Myron Bender

DEGREES OFFERED: Master of Science
    Master of Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Technical and Supervision

PROGRAM OBJECTIVES: Programs for the degrees are designed for students interested in acquiring competencies in teaching, administration, or those interested in acquiring middle management positions in industry or technical business field.

ADMISSION REQUIREMENTS: 2.74 minimum grade point average on a 4.0.

EVALUATION OF GRADUATE STUDENTS: Depending upon the degree, students have to complete either a written or an oral final comprehensive examination or write a thesis.

FEES: Tuition per semester- Resident $270.00
    Out of State $654.00
    Services per semester- Both Resident and Out of State $56.50

FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $378.00 per month. Tuition is waived, but students have to pay service fee. Other types of assistance is available.
BOWLING GREEN STATE UNIVERSITY
School of Technology
Bowling Green, Ohio 43403

GRADUATE COORDINATOR: Dr. David Beach

DEGREE OFFERED: Master of Education in Career and Technology Education

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: The purpose of the program is to provide a rigorous and individualized professional degree program that facilitates the career roles of or teacher, curriculum and instruction systems developer, administrator-supervisor, and researcher-evaluator within CTE or in a component area

ADMISSION REQUIREMENTS: Graduate Record Examination and a 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: --

FEES: --

FINANCIAL ASSISTANCE: Several types of assistantships are available $1,700.00 for a ¼ assistantship to $3,400.00 for a ¼ assistantship. Tuition is waived.

KENT STATE UNIVERSITY:
School of Technology
Kent, Ohio 44242

GRADUATE COORDINATOR: Dr. Lowell S. Zurbuch

DEGREES OFFERED: Master of Arts in Technology
Master of Education (Industrial Arts)

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory
PROGRAM OBJECTIVES: The primary goal of the Master of Arts degree in technology is to develop a "master teacher". This goal is accomplished through the graduate student's mastery of the degree objectives of: increased knowledge of industrial arts education, developing the capacity for independent thinking, and application of the research process.

ADMISSION REQUIREMENTS: 2.75 minimum grade point average and at least one year of teaching for the non thesis option.

EVALUATION OF GRADUATE STUDENTS: Depending upon degree a thesis is required.

FEES: Tuition and Services per semester- Resident $587.00 Out of State $1,187.00

FINANCIAL ASSISTANCE: 5 graduate assistantships with teaching and research duties wages range from $2,850.00 to $3,500.00 for nine months. Tuition is waived but student has to pay $210.00 per semester on campus to $219.00 per semester off campus. Other types of financial assistance is available.

OHIO UNIVERSITY
Department of Industrial Technology
Athens, Ohio 45701

GRADUATE COORDINATOR: Dr. Albert R. Squibb

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: 2.7 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete an oral final comprehensive examination.

FEES: Tuition- Resident $380.00 Out of State $805.00

Admission fee- $10.00
FINANCIAL ASSISTANCE: 2 graduate teaching assistantships projected for 79-80 $300.00 per month. Tuition will be waived, but students have to pay service fee. No other types of financial assistance is available.

THE OHIO STATE UNIVERSITY
Academic Faculty of Industrial Technology Education
Columbus, Ohio 43210

GRADUATE COORDINATOR: Dr. Donald G. Lux

DEGREE OFFERED: Master of Arts

DISCIPLINE BASE: Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Prepare master teachers.

ADMISSION REQUIREMENTS: 2.7 minimum grade point average on a 4.0 scale.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a written final comprehensive examination.

FEES: Tuition- Resident $395.00
Out of State $790.00
Services- Both Resident and Out of State $31.00
General fee- Both Resident and Out of State $65.00
Application- $10.00
Acceptance- $25.00

FINANCIAL ASSISTANCE: 1 graduate assistantship $300.00 to $400.00 per month. All fees are waived and other types of financial assistance is available.

THE OHIO STATE UNIVERSITY
Faculty for Vocational-Technical Education
Columbus, Ohio 43210

GRADUATE COORDINATOR: Dr. Arron J. Miller

DEGREE OFFERED: Master of Arts in Education

DISCIPLINE BASE: Vocational Service
PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: 1. To prepare master teachers in their respective vocational service area.
2. To prepare instructional supervisors and administrators for vocational education.

ADMISSION REQUIREMENTS: Graduate Record Examination required if grade point average is less than 2.7.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination is required.

FEES: Tuition per quarter - Both Resident and Out of State $395.00

FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $450.00 per month. All fees are waived and other types of financial assistance is available.

UNIVERSITY OF AKRON
College of Education
Akron, Ohio 44325

GRADUATE COORDINATOR: Dr. Michael N. Sugarman

DEGREE OFFERED: Master of Science in Technical Education

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: The major objective of the program in Technical Education is prepare instructors and other educational personnel for post-secondary educational institutions, industry, and public and private agencies engaged in the education and of technicians and middle-level workers.

ADMISSION REQUIREMENTS: Miller Analogies Test and a 2.75 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a final comprehensive examination and an internship.

FEES: Tuition per semester hour - Resident $38.00
Out of State $53.00
Services per semester hour - Both Resident and Out of State $9.00
FINANCIAL ASSISTANCE: 4 graduate assistantships approximately $3,000.00 for nine months. All fees are waived.

UNIVERSITY OF TOLEDO
Department of Vocational Trade and Industrial Education
Toledo, Ohio 43606

GRADUATE COORDINATOR: Dr. Wells Singleor

DEGREE OFFERED: Master of Education
Master of Arts in Education
Master of Science in Education

DISCIPLINE BASE: Education

PROGRAM ORIENTATION: --

PROGRAM OBJECTIVES: To help teachers grow in teacher proficiency.
To provide preparation for all kinds of educational specialities.
To provide for professional growth.
To offer experience in professional growth and research.
To extend frontiers in professional growth educationally.

ADMISSION REQUIREMENTS: 800 Graduate Record Examination and a 2.7 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition- Resident $30.25
Out of State $70.65
Services- Both Resident and Out of State $4.70

FINANCIAL ASSISTANCE: 30 graduate teaching assistantships $360.00 per month. 6 graduate research assistantships $360.00 per month. All fees are waived and other types of financial assistance is available.
EAST CENTRAL OKLAHOMA STATE UNIVERSITY
Industrial Arts Department
Ada, Oklahoma 74820

GRADUATE COORDINATOR: Dr. James Danley

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Technical and Philosophy

PROGRAM OBJECTIVES: Develop master teachers.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: An internship, which includes teaching teaching is required.

FEES: Tuition per semester hour- Resident $14.75
Out of State $24.00
Services per semester hour- Both Resident and Out of State $.50
Student activity fee- $5.00

FINANCIAL ASSISTANCE: Student work study

NORTHEASTERN OKLAHOMA STATE UNIVERSITY
Department of Industrial Education
Tahlequah, Oklahoma 74464

GRADUATE COORDINATOR: Dr. Marjorie Holland

DEGREES OFFERED: Master of Science in Industrial Technology
Master of Education with Major in Industrial Arts
Master of Junior College Teaching

DISCIPLINE BASE: Industrial Technology and Industrial Arts

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.5 minimum grade point average on a 4.0.

EVALUATION OF GRADUATE STUDENTS: None
FEES: Tuition- Resident $14.75  
Out of State $38.75

FINANCIAL ASSISTANCE: 3 graduate assistantships. No fees are waived, but student work study is available.

NORTHWESTERN OKLAHOMA STATE UNIVERSITY  
Industrial Education  
Alva, Oklahoma 73717

GRADUATE COORDINATOR: Dr. Steve Hensley

DEGREE OFFERED: Master of Science

DISCIPLINE BASE: Teaching and Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: 1. To develop competency in research, writing skills, and utilization of research findings. 2. To develop knowledge in the foundations of education. 3. To develop understanding of psychological processes related to education. 4. To develop understanding of measurement techniques employed in education. 5. To develop understanding of current methods and curricula. 6. To enrich the knowledge and understanding of those areas for which the educator has specific professional responsibilities.

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Either a written or an oral final comprehensive examination is required.

FEES: Tuition- Resident $13.45  
Out of State $39.25

FINANCIAL ASSISTANCE: Student loans and some scholarships.

OKLAHOMA STATE UNIVERSITY  
School of Occupational and Adult Education  
Stillwater, Oklahoma 74074
GRADUATE COORDINATOR: Dr. Donald S. Phillips

DEGREE OFFERED: Master of Science in Industrial Arts Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy

PROGRAM OBJECTIVES: Advanced training for improved instructional performance in the industrial arts program. Also to serve individuals in related areas.

ADMISSION REQUIREMENTS: 2.75 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a final comprehensive oral examination. A thesis is also required.

FEES: Tuition per semester credit hour- Resident $28.00
Out of State $60.00
Services per semester- Both Resident and Out of State $125.00

FINANCIAL ASSISTANCE: 4 graduate teaching assistantships $325.00 per month. Only out of state tuition is waived. Students have to pay all other fees. Other types of assistance is available.

SOUTHERN OKLAHOMA STATE UNIVERSITY
Department of Industrial Education
Weatherford, Oklahoma 73096

GRADUATE COORDINATOR: Dr. James F. Griffin

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: Upon completing the advanced professional program in industrial arts the individual should have:
1. extended and broadened his/her background in the area of industrial arts education.
2. increased his/her competence in the use of effective methods and materials related to the teaching of industrial arts.
3. furthered his/her skill in guiding the development of children and adolescents in the areas of learning and personal-social adaptation to an industrial society.
4. enhanced his/her understanding of industrial arts in the school's role in society and its responsibility for the preservations and improvement of the democratic process.
5. developed attitudes which are conducive to improvement as a means of keeping professionally alert as well as raising the standards and prestige of the professional industrial arts teacher.
6. develop and/or improved proficiency in analytical thinking.
7. satisfied the academic requirements of the Oklahoma Professional Certificate for Teachers in Industrial Arts.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition- Resident $14.75 
Out of State $38.75 
Services- Both Resident and Out of State $.50

FINANCIAL ASSISTANCE: Student work study $198.00 per month.

OREGON

OREGON STATE UNIVERSITY
Department of Industrial Education
Corvallis, Oregon 97331

GRADUATE COORDINATOR: Dr. Joel D. Galloway

DEGREES OFFERED: Master of Education in Industrial Arts 
Master of Science in Industrial Arts 
Master of Education in Trade and Industrial Education 
Master of Science in Trade and Industrial Education

DISCIPLINE BASE: Industry and Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory
PROGRAM OBJECTIVES: Master of Science in Trade and Industrial Education A professional degree, the program includes advanced work to provide professional teaching experiences, leadership preparation, individual experience with research and writing, advanced technical and subject matter studies. Master of Education in Trade and Industrial Education A professional degree, the program provides for advanced work built around professional teaching requirements and technical courses for the standard teaching norm. Master of Education in Industrial Arts Education A professional degree, the program provides for advanced work built around professional teaching requirements and technical courses for the Standard Teaching Norm. Master of Science in Industrial Arts Education A professional degree, the program includes advanced work to provide professional teaching experiences, leadership preparation, individual experience with research and writing, and advanced technical course work.

ADMISSION REQUIREMENTS: Master of Science- 3.0 minimum grade point average. Master of Education- 2.85 minimum grade point average.

EVALUATION OF GRADUATE STUDENT: A written final comprehensive examination is required for the Master of Education degree. A Thesis is required for the Master of Science degree.

FEES: Tuition- Resident $401.00 Out of State $509.00

FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $3,300.00 to $3,500.00 per year. 1 graduate research assistant. Only summer tuition is waived. Student has to pay all other fees.

PENNSYLVANIA

CALIFORNIA STATE COLLEGE
Industrial Arts Department
California, Pennsylvania 15419
GRADUATE COORDINATOR: Dr. Joseph Pecosh

DEGREE OFFERED: Master of Education in Industrial Arts Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: 1. To offer opportunities and resources for students to increase their competence in basic understanding of their discipline;
2. To provide opportunities to attain professional growth.
3. To assist students to develop modes of inquiry and substantive understandings that will promote a more critical and creative attitudes toward humanistic and scientific principles;
4. To encourage the development of research skills;
5. To enable students to develop responsible leadership roles and an ability to relate effectively to others;
6. To stimulate students to pursue academic growth beyond the master's degree.

ADMISSION REQUIREMENTS: 29 on the Miller Analogies Test and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a candidacy examination and a final comprehensive examination.

FEES: Tuition per credit—Both Resident and Out of State $51.00
Service—Both Resident and Out of State $10.00

FINANCIAL ASSISTANCE: 2 graduate assistantships $270.00 per month. Tuition is waived, but student has to pay activity, and graduation fees. Other types of assistance is available.

CHEYNEY STATE COLLEGE
Division of Industrial Arts and Technology
Cheyney, Pennsylvania 19319

GRADUATE COORDINATOR: Dr. Luther Burse

DEGREE OFFERED: Master of Science in Industrial Arts
DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: Above

ADMISSION REQUIREMENTS: 2.75 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination is required. A thesis is also a requirement for graduation.

FEES: --

FINANCIAL ASSISTANCE: 3 graduate assistantships $350.00 per month. All fees are waived and no other financial assistance is available.

MILLERSVILLE STATE COLLEGE
Department of Industrial Arts Education
Millersville, Pennsylvania 17551

GRADUATE COORDINATOR: Dr. Dalton Smart

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Technology and Professional Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Preparation of master teachers. Emphasis on technical and professional areas. Post-masters supervisory program available.

ADMISSION REQUIREMENTS: Graduate Record Examination for non-MSC graduates. 2.75 minimum grade point average for MSC graduates.

EVALUATION OF GRADUATE STUDENTS: A candidacy examination is required for admission.

FEES: Tuition per credit- Resident $50.00
Out of State $70.00
Service fee- Both Resident and Out of State $10.00

FINANCIAL ASSISTANCE: 2 graduate assistantships $2,700.00 per year. Tuition is waived, but out of state assistants have to pay an out of state fee. Other assistance is available.
THE PENNSYLVANIA STATE UNIVERSITY
Division of Curriculum and Instruction
University Park, Pennsylvania 16802

GRADUATE COORDINATOR: Dr. Carol Cartwright

DEGREES OFFERED: Master of Science in Curriculum and Instruction
                      Master of Education in Curriculum and Instruction

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES:
1. Be cognizant of curriculum development in the industrial art's secondary school
2. Be able to interpret professional literature in education.
3. Be aware of learning theories as they apply to the classroom.
4. Be conversant with the historical antecedents of industrial education.
5. Be able to carry out an investigation project dealing with a professional problem.
6. Develop a medium of skill in constructing evaluation instruments appropriate for the industrial arts classroom and laboratory.

ADMISSION REQUIREMENTS: 2.75 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per term- Resident $484.00
         Out of State $944.00
            Application- $20.00
            Motor Vehicle- $10.00

FINANCIAL ASSISTANCE: Available at Doctoral level only.

THE PENNSYLVANIA STATE UNIVERSITY
Vocational and Industrial Education
University Park, Pennsylvania 16802

GRADUATE COORDINATOR: Dr. Frederick G. Welch

DEGREES OFFERED: Master of Science in Vocational Industrial Education
                      Master of Education in Vocational Industrial Education
DISCIPLINE BASE: Advanced teacher training

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: Improve teaching skills and to: Develop vocational leaders and administrators.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination and a thesis are required for graduation.

FEES: Tuition per credit- Resident $60.00  
Out of State $120.00

FINANCIAL ASSISTANCE: 10 graduate research assistantships $377.00 per month. 2 project assistantships $377.00 per month. 2 graduate teaching assistantships $377.00 per month. All other fees are waived, and other types of assistance is available.

TEMPLE UNIVERSITY  
Department of Vocational Education-  
Industrial Arts Program Area  
Philadelphia, Pennsylvania 19122  

GRADUATE COORDINATOR: Dr. Raymond S. Lolla

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Industry and Administration/Supervision

PROGRAM ORIENTATION: Philosophy, Technical, and Supervision

PROGRAM OBJECTIVES: Prepare master teachers and industrial arts supervisors and administrators.

ADMISSION REQUIREMENTS: 900 on the Graduate Record Examination, 39 on the Miller Analogies Test, or a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination is required.

FEES: Tuition per credit hour- Resident $75.00  
Out of State $100.00
FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $6,000.00 per year plus $425.00 for the first summer session. All fees are waived except the application fee. Other types of financial assistance is available.

UNIVERSITY OF PITTSBURGH
Vocational Education-School of Education
Pittsburgh, Pennsylvania 15260

GRADUATE COORDINATOR: Dr. Theodore T. Polk

DEGREES OFFERED: Master of Education

Master of Arts

DISCIPLINE BASE: Teacher Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete an oral candidacy examination, a written and oral final comprehensive examination, and master of arts students are required to complete a thesis.

FEES: Tuition- Resident $70.00

Out of State $138.00

FINANCIAL ASSISTANCE: 4 graduate assistantships, 3 graduate teaching assistantships. No fees are waived and no other financial assistance is available.

RHODE ISLAND

RHODE ISLAND COLLEGE
Industrial Education Department
Providence, Rhode Island 02908

GRADUATE COORDINATOR: Dr. William Small
DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Supervisory and Technical

PROGRAM OBJECTIVES: The M.Ed. program services industrial arts and vocational education teachers and proposes to make them effective master teachers through experiences in curriculum planning and development, up-dating of technological competencies, and involvement in practical research and futuristic projections.

ADMISSION REQUIREMENTS: Miller Analogies Test

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination is required in major area.

FEES: Tuition per credit hour - Resident $41.00
Out of State $61.00
Services - Both Resident and Out of State $9.00

FINANCIAL ASSISTANCE: 1 graduate teaching assistantship $250.00 per month. Tuition is waivered and other types of financial assistance is available.

SOUTH CAROLINA

CLEMSON UNIVERSITY
Department of Industrial Education
Clemson, South Carolina 29631

GRADUATE COORDINATOR: Dr. A. F. Newton

DEGREE OFFERED: Master of Industrial Education

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: To prepare individuals to utilize a variety of techniques in preparing instructional media appropriate to several levels of instruction and in a variety of instructional areas.
To develop an acute awareness of the content of the professional literature in industrial education and to foster a continuing desire to keep abreast of professional developments.

To foster independent study and pursuit of knowledge in the teacher's teaching specialty.

Prepare people who are able to design, create, and utilize viable curricula for their own teaching as well as for wider use by others.

To prepare individuals for positions of leadership in industrial education.

**ADMISSION REQUIREMENTS:** 2.7 minimum grade point average.

**EVALUATION OF GRADUATE STUDENTS:** A written and oral final comprehensive examination is required.

**FEES:** All fees per semester—Both Resident and Out of State $415.00

**FINANCIAL ASSISTANCE:** 6 graduate assistantships $280.00 per month.

\( \frac{1}{2} \) of all fees are waived. No other types of financial assistance is available.

**SOUTH DAKOTA**

**NORTHERN STATE COLLEGE**
Department of Industrial and Safety Education
Aberdeen, South Dakota 57401

**GRADUATE COORDINATOR:** Dr. Kenneth Bryant

**DEGREE OFFERED:** Master of Science

**DISCIPLINE BASE:** Teacher Education

**PROGRAM ORIENTATION:** Philosophy, Technical, and Supervisory

**PROGRAM OBJECTIVES:** To prepare students for leadership roles in industrial education and to assist the student to be better prepared as teachers of industrial education.

**ADMISSION REQUIREMENTS:** 3.0 minimum grade point average.

**EVALUATION OF GRADUATE STUDENT:** Students are required to complete an oral candidacy examination and an oral final comprehensive examination.
FEES: Tuition per semester hour- Resident $28.35 Out of State $51.10

FINANCIAL ASSISTANCE: Graduate assistantships are available but none were offered in 1978-79. No fees are waivered, but other types of assistance is available.

TENNESSEE

EAST TENNESSEE STATE UNIVERSITY
Department of Industrial Education
Johnson City, Tennessee 37601

GRADUATE COORDINATOR: Dr. Charles Story

DEGREES OFFERED: Master of Science in Industrial Education
Master of Science in Industrial Technology

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: Further enhance professionalism among teachers, and increase competencies in the technical fields.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average on a 4.0 scale.

EVALUATION OF GRADUATE STUDENTS: Students are required to take an oral candidacy examination.

FEES: Tuition per quarter- Resident $16.00 Out of State Not to exceed $167.00

FINANCIAL ASSISTANCE: 4 graduate assistantships $280.00 per month, and only out of state fees are waivered.

MEMPHIS STATE UNIVERSITY
Division of Engineering Technology
Memphis, Tennessee 38152

GRADUATE COORDINATOR: Dr. Kenneth D. Cremer

DEGREE OFFERED: Master of Science in Technical Education
DISCIPLINE BASE: Engineering Technology

PROGRAM ORIENTATION: Technical

PROGRAM OBJECTIVES: To provide teachers for technical institutes, colleges, and universities in technical specializations i.e., architecture, construction, electronics, computer systems, manufacturing, industrial arts, etc.

ADMISSION REQUIREMENTS: Either an 800 Graduate Record Examination score, a 27 Miller Analogies Test score or a 2.5 minimum grade point average on a 4.0 scale.

EVALUATION OF GRADUATE STUDENTS: Students are required to take a written and or oral final comprehensive examination.

FEES: Tuition per semester hour- Resident $23.00 Out of State $39.00 Application fee- $5.00

FINANCIAL ASSISTANCE: 6 laboratory assistantships $310.00 per month. 2 graduate teaching assistantships $310.00 per month. All fees are waived.

THE UNIVERSITY OF TENNESSEE
Industrial Education Department
Knoxville, Tennessee  37916

GRADUATE COORDINATOR: Mr. Joe L. Reed

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Supervisory and Teacher Preparation

PROGRAM OBJECTIVES: To develop instructors and supervisors for education and industry.

ADMISSION REQUIREMENTS: 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: All students not taking the thesis option must take a final comprehensive examination.
FEES: Tuition per quarter hour- Resident $23.00  
Out of State $54.00

FINANCIAL ASSISTANCE: 2 graduate assistantships were offered, 1 graduate teaching assistantship $432.66 per month. Tuition is waived for two courses. No other assistance is available.

TEXAS

NORTH TEXAS STATE UNIVERSITY  
Division of Industrial Arts  
Denton, Texas 76203

GRADUATE COORDINATOR: Dr. Robert B. Toulouse

DEGREES OFFERED: Master of Science in Industrial Arts  
Master of Education in Industrial Arts

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Supervisory, Technical, and Philosophy

PROGRAM OBJECTIVES: Master of Science give qualified students an opportunity to further their graduate work and to prepare themselves for advancement in professional education or technical positions in industry. Master of Education is primarily to provide a means for the students to prepare for positions in professional teaching, administration, counseling, etc.

ADMISSION REQUIREMENTS: 700 on the Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive oral examination is required and depending upon degree selected, a thesis is required.

FEES: Tuition per semester hour- Resident $4.00  
Out of State $40.00 (minimum amount)

Services per semester hour- Both Resident and Out of State $2.50
Medical card- $5.00
Identification Card- $1.00
Union Building Fee- $13.00
FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $262.00 per course taught. Out of state tuition is waived and all other fees must be paid by the student. Other types of assistance is available.

PRAIRIE VIEW A&M UNIVERSITY
College of Industrial Education and Technology
Prairie View, Texas 77445

GRADUATE COORDINATOR: Dr. Lloyd R. Boyden

DEGREES OFFERED: Master of Science in Industrial Education
Master of Education in Industrial Education

DISCIPLINE BASE: Teacher Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: 1. Provide programs for educational personnel who carry out noninstructional roles in industrial arts, vocational and technical education.
2. Provide for the systematic study of problems related to the various programs in industrial arts, vocational and technical education through research.
3. Provide consultative services and instructional materials for school programs of industrial arts, vocational and technical education.
4. Provide teachers of industrial arts, vocational and technical education at the elementary, secondary, and adult levels.
5. Provide teachers of industrial arts, vocational and technical education with in-service professional experiences.
6. Provide experiences whereby leadership competencies necessary to supervise and administer industrial arts, vocational and technical education programs may be developed.

ADMISSION REQUIREMENTS: Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination is required and depending upon degree selected a thesis is required.
FEES: Tuition per semester hour- Resident $4.00
Out of State $40.00
Services- Both Resident and Out of State $30.00

FINANCIAL ASSISTANCE: 3 graduate research assistantships $375.00 per month. Student has to pay $815.25 each semester. Other types of financial assistance is available.

SAM HOUSTON STATE UNIVERSITY
Industrial Education and Technology Department
Huntsville, Texas 77340

GRADUATE COORDINATOR: Dr. Nedom C. Muns

DEGREES OFFERED: Master of Arts
Master of Education

DISCIPLINE BASE: Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination or a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written an oral final examination is required.

FEES: Tuition- Resident $72.00
Out of State $720.00
Services- Both Resident and Out of State $30.00
Use fee- $50.00
Medical fee- $10.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $375.00 per month. No fees are waived, but other types of assistance is available.

SOUTHWEST TEXAS STATE UNIVERSITY
Department of Industrial Arts
San Marcos, Texas 78666

GRADUATE COORDINATOR: Dr. Billy L. Windham
DEGREES OFFERED:  Master of Arts  
Master of Education  

DISCIPLINE BASE:  Industry  

PROGRAM ORIENTATION:  Supervisory  

PROGRAM OBJECTIVES:  
1. To reinforce and extend the student's academic and professional equipment as a means of improving professional competence.  
2. To familiarize the student with current and recent research in his field; to acquaint him with the techniques of research; to enable him to interpret his own and current research, to derive significant implications therefrom, and to apply pertinent findings.  
3. To challenge the student intellectually, to develop his power of independent thought, and to direct him toward the goal of greater effectiveness in both his personal and professional life.  

ADMISSION REQUIREMENTS:  900 on the Graduate Record Examination and a 2.75 minimum grade point average.  

EVALUATION OF GRADUATE STUDENTS:  A written and oral final comprehensive examination is required and depending upon degree selection a thesis is required.  

FEES:  
Tuition per semester hour-  Resident $50.00 (remains $50.00 until 12hr.)  
Out of State $40.00  
Services per semester hour-  Both Resident and Out of State $2.50  
Building Use fee per semester hour-  $6.00  
Medical fee per semester hour-  $1.00  

FINANCIAL ASSISTANCE:  2 graduate teaching assistantships $500.00 per 6 hour teaching load. No other fees are waived and no other types of assistance is available.  

SUL ROSS STATE UNIVERSITY  
Industrial Arts Department  
Alpine, Texas 79830  

GRADAUTE COORDINATOR:  Dr. Robert Pannell  

DEGREE OFFERED:  Master of Education in Industrial Education
DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES:
1. To develop the master teacher through a broader understanding of the problems of industrial arts and the skills necessary for effective teaching.
2. To further develop the skills of the advanced student in specific areas of industrial arts and the knowledge pertaining to these areas.
3. To provide the advanced student with the opportunity to explore, design, and experiment with problems of special interest in the field of industrial arts teaching.
4. To give the advanced student further background in the history and development of industrial education.
5. To acquaint the advanced student with the organization, administration, and supervision of industrial arts.
6. To give the advanced student experience in research techniques employed in modern industry and technology.

ADMISSION REQUIREMENTS: 700 on the Graduate Record Examination and a 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per semester (15 hrs.) Resident $122.00
Out of State $662.00
Services per semester- Both Resident and Out of State $16.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $250.00 per month. Tuition is waived only when specific conditions are met. Other types of financial assistance is available.

TEXAS A&M UNIVERSITY
Department of Industrial Education
College Station, Texas 77843

GRADUATE COORDINATOR: Dr. Daniel L. Householder

DEGREES OFFERED: Master of Education
Master of Science
DISCIPLINE BASE: Eclectic

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: 800 on the Graduate Record Examination and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final written and oral comprehensive examination is required.

FEES: Tuition per semester- Resident $60.00
Out of State $600.00
Services fee per semester- Both Resident and Out of State $20.00
Building Use fee- $90.00
Student Center fee- $10.00
Health Center fee- $15.00

FINANCIAL ASSISTANCE: 9 graduate research assistantships $400.00 per month. 8 graduate teaching assistantships $400.00 per month. All tuition is waived but not all fees. Other types of financial assistance is available.

UNIVERSITY OF HOUSTON
Department of Technical Education
Houston, Texas 77004

GRADUATE COORDINATOR: Dr. W. R. Forkner

DEGREE OFFERED: Master of Education in Curriculum and Instruction

DISCIPLINE BASE: Industry and Technology

PROGRAM ORIENTATION: Dependent upon students intent.

PROGRAM OBJECTIVES: To provide avenues for students to reach their individual goals. The program is flexible in selection of courses within fields of concentration.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average, unconditional admission. 900 on Graduate Record Examination if under 3.0.
EVALUATION OF GRADUATE STUDENT: A written candidacy examination and a written final comprehensive examination is required. If a student has not 1 years teaching experience, an internship is required.

FEES: Tuition- Resident $50.00
Out of State $79.00
Services- Both Resident and Out of State $97.00
Student Services- $27.00
Medical Services- $7.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $300.00 per month. 1 graduate research assistantship $300.00 per month. All fees are waived and other types of financial assistance is available.

BRIGHAM YOUNG UNIVERSITY
Industrial Education Department
Provo, Utah 84602

GRADUATE COORDINATOR: Dr. Jerry Grover

DEGREES OFFERED: Master of Science in Industrial Education
Master of Industrial Education
Master of Science in Technology

DISCIPLINE BASE: Industry and Technology

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES: To prepare master teachers, supervisors, and specialist in education.
To prepare for teaching or instructional management in industry.

ADMISSION REQUIREMENTS: 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive examination and a thesis depending upon degree selection is required.

FEES: Tuition- Both Resident and Out of State $705.00
Application fee- $25.00
Graduation fee- $20.00
FINANCIAL ASSISTANCE:  5 graduate teaching assistantships $220.00 per month.  2 graduate research assistantships $220.00 per month.  8 laboratory assistantships $116.00 per month.  No fees are waived and there are no other types of assistance available.

VERMONT

UNIVERSITY OF VERMONT
Vocational and Education and Technology Department
Burlington, Vermont 05401

GRADUATE COORDINATOR: Dr. Gerald R. Fuller

DEGREE OFFERED: Master of Education

DISCIPLINE BASE: Industrial Education

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: To prepare for professional leadership. Specializations in guidance and counseling, special needs education, improvement of instruction, curriculum development.

ADMISSION REQUIREMENTS: 1000 on the Graduate Record Examination.

EVALUATION OF GRADUATE STUDENTS: A final comprehensive oral examination is required.

FEES: Tuition- Resident $650.00
Out of State $1,867.00
Services- Both Resident and Out of State $89.00

FINANCIAL ASSISTANCE: 1 graduate research assistantship $260.00 per month. Tuition is waived, students have to pay for services. Other types of assistance is available.

VIRGINIA
OLD DOMINION UNIVERSITY
Vocational and Industrial Arts
Education Department
Norfolk, Virginia 23508

GRADUATE COORDINATOR: Dr. John M. Ritz

DEGREES OFFERED: Master of Science in Secondary Education/Industrial Arts
Master of Science in Secondary Education/Trade and Industry
Master of Science in Secondary Education/DE & BE

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy and Supervisory

PROGRAM OBJECTIVES: To update a teachers knowledge of current curriculums and philosophies.
To certify for supervisory positions.

ADMISSION REQUIREMENTS: 900 on the Graduate Record Examination

EVALUATION OF GRADUATE STUDENTS: An oral final comprehensive examination is required.

FEES: Tuition per credit hour—Both Resident and Out of State $90.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $400.00 per month. 2 graduate research assistantships $400.00 per month. Fees are not waived but other types of assistance is available.

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
Industrial Arts Education Program Area
Blackburg, Virginia 24061

GRADUATE COORDINATOR: Dr. William E. Dugger Jr.

DEGREE OFFERED: Master of Science in Education

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Philosophy

PROGRAM OBJECTIVES: 1. Develop technical competencies in industrial arts education.
2. Allow students to take a core of educational philosophy, foundations, and curriculum.
3. Require cognate breadth for student.
ADMISSION REQUIREMENTS: None

EVALUATION OF GRADUATE STUDENTS: Students are required to take a final comprehensive examination.

FEES: Tuition- Resident $256.00
      Out of State $350.00
      Services- Both Resident and Out of State $14.00

FINANCIAL ASSISTANCE: 1 graduate teaching assistantship $475.00 to $520.00 per month. 1 graduate research assistantship $475.00 to $520.00 per month. No fees are waived but other types of financial assistance is available.

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
Vocational Industrial Education Program Area
Blackburg, Virginia 24061

GRADUATE COORDINATOR: Dr. Dale Olenie

DEGREE OFFERED: Master of Science in Vocational-Industrial Education

DISCIPLINE BASE: Teaching

PROGRAM ORIENTATION: Supervisory

PROGRAM OBJECTIVES: 1. To provide the student with the knowledge and skill to be an effective leader.
                   2. To instill the desire for further professional growth and development.

ADMISSION REQUIREMENTS: 3.3 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written and oral final comprehensive examination is required. A thesis is also required.

FEES: Unknown at this time due to a pending increase.

FINANCIAL ASSISTANCE: 1 graduate teaching assistantship $400.00 to $500.00 per month. No fees are waived and no other types of financial assistance.

WASHINGTON
CENTRAL WASHINGTON STATE UNIVERSITY  
Department of Technology and Industrial Education  
Ellensburg, Washington  98926  

GRADUATE COORDINATOR:  Dr. G. W. Beed  

DEGREE OFFERED:  Master of Education in Industrial Education  

DISCIPLINE BASE:  Industry and Industrial Technology  

PROGRAM ORIENTATION:  Supervisory  

PROGRAM OBJECTIVES:  To develop a better classroom teacher.  
                     To develop state leadership candidates.  

ADMISSION REQUIREMENTS:  Graduate Record Examination and a 2.5 minimum grade point average.  

EVALUATION OF GRADUATE STUDENTS:  A written final comprehensive examination is required.  

FEES:  Total fees per semester-  Resident $197.00  
       Out of State $661.00  

FINANCIAL ASSISTANCE:  None  

WASHINGTON STATE UNIVERSITY  
Industrial Education  
Pullman, Washington  99163  

GRADUATE COORDINATOR:  Dr. William Bakamis  

DEGREES OFFERED:  Masters of Science in Vocational-Technical Education  
                  Masters of Education in Vocational-Technical Education  

DISCIPLINE BASE:  Industrial Technology  

PROGRAM ORIENTATION:  Supervisory  

PROGRAM OBJECTIVES:  1. To prepare educators for leadership roles.  
                      2. To prepare educators as administrators, curriculum specialist, or master teachers in their field.  
                      3. To develop in each educator an appreciation for the broad field of vocational-technical education.
ADMISSION REQUIREMENTS: None

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a thesis or an internship.

FEES: Tuition per term- Resident $312.00
               Out of State $820.00

FINANCIAL ASSISTANCE: 6, ½ time graduate teaching assistantships $515.00 per month. Tuition is not waivered, but other types of financial assisances is available.

WESTERN WASHINGTON UNIVERSITY
Department of Technology
Bellingham, Washington 98225

GRADUATE COORDINATOR: Dr. R. J. Fowler

DEGREE OFFERED: Master of Education in Technology

DISCIPLINE BASE: Industrial Arts

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: --

ADMISSION REQUIREMENTS: Graduate Record Examination , Miller Analogies Test, and a 2.5 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a written and oral final comprehensive examination.

FEES: Tuition- Resident $25.00
               Out of State $96.00

Sevrives- Both Resident and Out of State $54.00

Operations- Resident $149.00
               Out of State $602.50

FINAINCIAL ASSISTANCE: 2 graduate teaching assistantships $450.00 per month. Only out of state tuition is waivered. Students have to pay all other fees and no other types of assistance are available.
WEST VIRGINIA UNIVERSITY
Program for the Study of Technology
Morgantown, West Virginia 26506

GRADUATE COORDINATOR: Dr. Edward Pytlik

DEGREE OFFERED: Master of Arts

DISCIPLINE BASE: Technology

PROGRAM ORIENTATION: Philosophy, Technical Systems, and Professional

PROGRAM OBJECTIVES:
1. Program: Provide for the study of technology and the relationships of technical systems to human beings, society, and the environment.
2. Students: Provide a means for students to create their own educational programs for the study of technology and to gain competence in the social and technical elements comprising the field of study.

ADMISSION REQUIREMENTS: 1000 on the Graduate Record Examination, a 50 on the Miller Analogies Test, and a 2.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: Students are required to complete a final comprehensive oral examination. A thesis is not required, but it is strongly recommended.

FEES: Tuition Resident $227.00
Out of State $727.00

FINANCIAL ASSISTANCE: 10 graduate assistantships $316.00 to $333.00 monthly stipend. Tuition is waived, but student has to pay all other fees. Other types of financial assistance is available.

WISCONSIN
UNIVERSITY OF WISCONSIN-PLATTEVILLE
Department of Industrial-Technical Education
Platteville, Wisconsin 53818

GRADUATE COORDINATOR: Dr. Leonard Garside

DEGREES OFFERED: Master of Science
Master of Educational Professional Development

DISCIPLINE BASE: Industry

PROGRAM ORIENTATION: Technical and Supervisory

PROGRAM OBJECTIVES:

Master of Science- The M.S. degree prepares for specialized work in a particular area of industrial education including industriology, prepare for administration or supervisory positions in industrial education, or prepare for vocational certification and subsequent employment in a vocational-technical school.

Master of Educational Professional Development-

1. Provide a master's degree program with maximum flexibility in which studies may be tailored to the recognized practical needs of experienced teachers.

2. Provide a master's degree option designed as a cooperative effort between UW-Platteville and local school districts in southern Wisconsin in order to be more responsive to, and better meet, real regional needs in the area of postbaccalaureate teacher education.

3. Provide admission to graduate teacher education study to in-service teachers holding bachelor's degrees from accredited institutions in order to encourage all regional teachers to improve their educational preparation.

4. Offer a master's degree program permitting coordinated study in breadth as an alternative to specialization in depth, rectifying apparent professional deficiencies thus enabling appropriate upgrading and updating of preparation; encouraging acquaintance with broader spectrum of related fields; and providing a mechanism for educational re-tooling and certification as necessitated by acquisition of additional professional responsibilities.

ADMISSION REQUIREMENTS: 2.25 minimum grade point average.
EVALUATION OF GRADUATE STUDENTS: Students are required to take a written final comprehensive examination.

FEES: Tuition per credit- Resident $50.00
     Out of State $150.00

FINANCIAL ASSISTANCE: 5 graduate assistantships $240.00 per month.
Only out of state tuition is waived for assistants. Other types of financial assistance is available.

UNIVERSITY OF WISCONSIN-STOUT
School of Industry and Technology
Menomonie, Wisconsin 54751

GRADUATE COORDINATOR: Dr. Lawrence S. Wright

DEGREE OFFERED: Master of Science in Industrial Education

DISCIPLINE BASE: Industry, Technology, and Industrial Technology

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: The curriculum is designed to provide advanced instruction of value to (a) secondary school industrial arts teachers, supervisors and administrators; (b) junior college and university industrial arts teachers, supervisors, and administrators; (c) those desiring knowledge and competence related to American Industry; (d) those who have interest in special student groups such as the disadvantaged, the slow learner, the underachiever, the handicapped and gifted; and (e) those who desire vocational-industrial certification, but do not yet have to work experience.

ADMISSION REQUIREMENTS: 2.25 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: None

FEES: Tuition per semester Resident $438.00
     Out of State $1,315.00

FINANCIAL ASSISTANCE: 3 graduate teaching assistantships $344.00 per month. 2 non-teaching assistantships. 1 graduate research assistantship $344.00 per month. In some cases, the out of state
tuition is waivered. Other types of financial assistance are available.

WYOMING

UNIVERSITY OF WYOMING
Department of Vocational Education
Laramie, Wyoming 82071

GRADUATE COORDINATOR: Dr. James Zancanella

DEGREES OFFERED: Master of Education
                         Master of Science in Industrial Education

DISCIPLINE BASE: Industry and Vocational Education

PROGRAM ORIENTATION: Philosophy, Technical, and Supervisory

PROGRAM OBJECTIVES: To provide a comprehensive in-service education program to meet the professional and technical needs of teachers in industrial education.

ADMISSION REQUIREMENTS: 400 on the Graduate Record Examination and 3.0 minimum grade point average.

EVALUATION OF GRADUATE STUDENTS: A written final comprehensive examination over the program or over their thesis is required of the students.

FEES: Tuition- Resident $217.00
       Out of State $700.00

FINANCIAL ASSISTANCE: 2 graduate teaching assistantships $475.00 per month. 2 graduate research assistantships $475.00 per month. All fees are waivered and other types of financial assistance is available.
ABSTRACT
ABSTRACT

A need existed for a readily available source of information concerning masters programs in industrial education. There was a definite lack of information concerning the types of programs, types of degrees, philosophical bases, discipline bases, objectives, admission requirements, and the financial assistance available. The problem of the study was to develop an organized and current source of information for the prospective graduate student in the process of selecting a masters program.

A literature review was conducted to gather information that could be utilized when:

(1) Compiling information about the various masters programs in industrial education.

(2) Developing a questionnaire to collect data about masters programs in industrial education.

(3) Formulating the data into an information guide about masters programs in industrial education.

With information revealed in the literature review, a questionnaire was developed around four broad topics, these topics are:

(1) General information about the institutions
name, graduate coordinator, etc.

(2) Information about the program such as discipline base, objectives, etc.

(3) Information concerning the process of being admitted to the program and the formal evaluation process that follows.

(4) Financial information which includes all fees and the financial assistance available.

The questionnaire was distributed of one hundred seventy-nine institutions listed in the Industrial Teacher Education Directory, (Dennis, 1978) as offering masters degrees in industrial education. Eighty-one percent of the questionnaires mailed were returned and seventy-five percent were utilized as a source of information in this study.

The returned data was formulated into an information guide which is included in the appendix of the thesis. An analysis of data was conducted to provide persons interested in industrial education master degree programs with a source of information to compare and contrast the philosophical similarities and differences of the responding institutions. As part of a second review of literature a historical perspective of industrial education masters programs is also included in the research.
APPROVAL OF EXAMINING COMMITTEE
APPROVAL OF EXAMINING COMMITTEE

Dr. Richard E. Kleine

Dr. John T. North

Dr. Donald P. Lauda

(Date)

Dr. John R. Wright
Thesis Advisor