



College of EDUCATION

Carole Ames, DEAN

Our culture is confronted with a number of difficult and troubling human dilemmas to which the nation's schools and educators can legitimately respond. The array of programs offered by the College of Education is designed to equip professionals with the knowledge and skills to contribute to the further development and improvement of our schools and our society.

The College of Education provides professional programs for teachers, specialists, and administrators at all levels of education. It does so with a recognition of the importance of interdisciplinary study and field-based experience. The emphasis in the College's programs is on helping teachers and educational leaders to increase their knowledge and sharpen their skills in dealing with the needs of learners from a variety of settings, backgrounds, and perspectives.

In its efforts to better serve educators, and thus benefit learners, the College of Education offers both graduate and undergraduate students the opportunity to study existing areas of knowledge and skill, to participate in ongoing and emerging educational innovations, and to apply their knowledge and skill to a variety of actual educational settings.

Michigan State University provides prospective elementary and secondary teachers a number of routes to teacher certification, all of which have a significant component located in the public and private K-12 schools of Michigan. Students preparing for counseling and administrative roles have similar opportunities through graduate internships and other field-based activity. The College of Education enjoys close cooperative relationships with school districts throughout Michigan, whose instructional programs and research and service activities address some of the most pressing problems of contemporary educational practice.

The University's basic and advanced disciplinary majors and disciplinary minors that are available for teacher certifi-

cation and endorsement have met the standards of the State of Michigan Periodic Review Council and State Board of Education. Although the College of Education is deeply engaged in preparing and recommending students for state teacher certification, its students and faculty are concerned with extending knowledge, assessing existing programs and practices, and developing new approaches in an attempt to improve the learning environment for all types of learners.

For teachers and administrators already in the field who wish to receive additional professional training and assistance, MSU offers a number of programs in and approaches to in-service education. These offerings are not located solely on the East Lansing campus, but are also available at numerous sites throughout the state; and frequently, these programs are conducted in formats which teachers and administrators have been instrumental in designing.

The College also houses numerous research programs that provide a variety of opportunities for students to work on studies directly related to educational practice. The Center for Advanced Learning Systems focuses its research and development activities on emerging systems of teaching and learning and the organizations that support them at the post-secondary level. The Center for the Improvement of Early Reading Achievement (CIERA) is a collaborative effort of Michigan State University and the University of Michigan. The center's mission is to improve the reading achievement of America's children by generating and disseminating theoretical, empirical, and practical solutions to persistent problems in the learning and teaching of beginning reading. The Center for Educational Policy is dedicated to understanding and shaping policy deliberation and processes at the state, national, and international levels. The Institute for the Study of Youth Sports is a respected leader in coaching education and

research on young people's participation in athletics. The Institute's primary goal is to help children and youth develop to their maximum potential through sport culture, recreation, physical fitness, and other productive activities. The Third International Mathematics and Science Study (TIMSS), considered one of the most important international studies in education, is a comparative survey involving more than 60 countries. Kids Learning in Computer Klubhouses (CLICK!) is a consortium of nine rural and urban Michigan school districts that have established computer clubhouses as an extra-curricular activity for middle school students.

UNDERGRADUATE PROGRAMS

The College of Education offers three bachelor's degree programs: the Bachelor of Arts with a major in Education, the Bachelor of Science with a major in Kinesiology, and the Bachelor of Arts with a major in Special Education.

For additional information, refer to the *Department of Teacher Education* for the major in education, the *Department of Kinesiology* for the major in Kinesiology, and the *Department of Counseling, Educational Psychology and Special Education* for the major in special education.

Honors Study

The College of Education encourages honor students to develop rich and distinctive programs of study. Each Honors College member is assigned to a special faculty adviser who has the responsibility to help the student plan a balanced and rigorous course of study. Such a program will ordinarily include Honors Options in professional education courses. Students are also encouraged, when appropriate, to enroll in graduate seminars, to work on research projects with faculty in the College, to take full advantage of honors courses offered outside of the College of Education, and to observe and participate in public school classrooms.

TEACHER CERTIFICATION OPTIONS

Disciplinary majors in education, kinesiology, and special education leading to bachelor's degrees in the College of Education and a health education disciplinary minor are available for teacher certification.

Students who elect a disciplinary major or a disciplinary minor must contact the *Department of Teacher Education* for the major in education, the *Department of Kinesiology* for the minor in health education or the major in kinesiology, and the *Department of Counseling, Educational Psychology and Special Education* for the major in special education.

For additional information about the teacher certification options referenced above, refer to the statements on the disciplinary majors and to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of the catalog.

For additional information about teacher certification opportunities, options, and requirements, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of the catalog.

GRADUATE STUDY

Graduate programs in the College of Education provide opportunities for advanced study and research in education and foster development of the insight and skill needed to deal with

the many challenges that confront the education profession today.

The College offers the following degrees in a variety of specialties: Master of Arts, Master of Science, Educational Specialist, and Doctor of Philosophy. Students study the profession in general as well as particular specialties. Within many programs, there is considerable latitude for students to plan their studies in collaboration with their faculty advisers.

Included in the requirements for some graduate degree programs that are offered by departments in the College of Education are courses that involve observations, field experiences, and internships. Students are responsible for their transportation to and from observations, field experiences, and internships. Students are responsible for costs associated with observations, field experiences, and internships; e.g., transportation.

To augment formal classroom offerings, students may participate in College research, development, and service. Opportunities for experience include the Institute for Research on Teaching, which focuses on the study of teachers' professional judgments; the National Center for Research on Teacher Learning, which conducts research on how teachers learn to teach academic subjects to diverse learners; the Institute for Research on Teaching Adults, which focuses on how institutions promote adults' understanding of academic subjects; and the Youth Sports Institute and the Center for the Study of Human Performance, which conduct research in physical education. Contracts from the state support a Michigan Vocational Education Resource Center and a program of continuing professional development for state secondary and postsecondary vocational education personnel. Research and development are applied internationally by the Office for International Networks in Education.

Students who are enrolled in Master of Arts, Educational Specialist and Doctor of Philosophy degree programs in the Department of Counseling, Educational Psychology and Special Education and in Master of Science and Doctor of Philosophy degree programs in the Department of Kinesiology may elect specializations in infant studies. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infant Studies* in the *College of Social Science* section of this catalog.

Master of Arts and Master of Science

Each candidate for the Master of Arts or Master of Science degree selects one of the major fields in one of the academic units listed below:

- College of Education
 - literacy instruction (M.A.)
- Department of Counseling, Educational Psychology and Special Education
 - counseling (M.A.)
 - educational technology and instructional design (M.A.)
 - measurement and quantitative methods (M.A.)
 - rehabilitation counseling (M.A.)
 - special education (M.A.)
- Department of Educational Administration
 - higher, adult, and lifelong education (M.A.)
 - K-12 educational administration (M.A.)
 - student affairs administration (M.A.)
- Department of Kinesiology
 - kinesiology (M.S.)
 - kinesiology-urban studies (M.S.)
- Department of Teacher Education
 - curriculum and teaching (M.A.)

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Graduate Study

In addition to meeting the requirements of the University as described in the *Graduate Education* section of this catalog, students must meet the requirements specified below.

Admission

Students wishing to become candidates for the master's degree must possess a bachelor's degree from a recognized educational institution. A grade–point average of at least 3.00 during the final two years of undergraduate study is required for regular admission. Admission on a provisional basis is sometimes available; however, a provisional admission requires a grade–point average of at least 2.50 during the final two years of undergraduate study. Teacher certification is also required for admission in some areas.

A student wishing to obtain teacher certification may be admitted to a special program in order to obtain a teaching certificate. For additional information, refer to the statement on *TEACHER CERTIFICATION* in the Department of Teacher Education section.

Requirements for the Degree

A tentative program of studies for the degree should be prepared prior to the completion of 10 semester credits. No student will be accepted as a candidate for the master's degree unless such a program has been approved by the adviser. Program changes require the approval of the adviser.

For most of the programs offered by the College of Education, the master's degree may be earned on either Plan A (with thesis) or Plan B (without thesis). For Plan A, not more than 8 credits of master's thesis research may count toward the degree.

Academic Standards

If, upon completion of 18 or more graduate credits, the student has not attained a grade–point average of 3.00 or higher, he or she becomes ineligible to continue work toward the master's degree in the College.

Educational Specialist

The Educational Specialist program is designed for persons who wish to achieve, by a planned program of graduate studies, proficiency beyond the level of the master's degree but who do not necessarily plan to complete the Doctor of Philosophy degree.

Each candidate for the Educational Specialist degree selects one of the major fields in one of the departments listed below:

- Department of Counseling, Educational Psychology and Special Education school psychology
- Department of Educational Administration K–12 educational administration
- Department of Teacher Education curriculum, teaching, and educational policy

If the student is accepted for admission to doctoral study while pursuing the Educational Specialist degree or after completing this degree, credit for studies completed during the program may be applied to the doctoral degree upon recommendation of the student's doctoral guidance committee and approval of the Dean of the College of Education. However, the program leading to the Educational Specialist degree should not be thought of as a normal stage between the master's degree and the doctorate, but as a program for people who do not plan to complete work for a doctoral degree. There is no assur-

ance that any of the work taken for the Educational Specialist degree will be counted toward the doctorate should the individual be admitted to a doctoral program.

Admission

Admission to the program normally occurs after the completion of the master's degree. However, application may be made by those students who are pursuing bachelor's degrees from recognized educational institutions.

A student who has taken comprehensive examinations for a doctor's degree may apply for transfer to the Educational Specialist program only if these examinations have been satisfactorily passed. Other students in good standing who are in the doctoral program but have not taken the comprehensive examinations and wish to apply for transfer to the Educational Specialist program may do so by application and upon the approval of the guidance committee and adviser.

Admission to the program is subject to the general regulations of the University as set forth in the *Graduate Education* section of this catalog and the College of Education. Normally, the application will be processed in a manner similar to that for doctoral students. Scores for the Graduate Record Examination General Test¹ are required at the time the application for admission to an educational specialist program is submitted. This examination must have been taken no longer than five years prior to the application for admission. At the discretion of the department, applicants may be admitted on a provisional basis pending the required Graduate Record Examination General Test¹ scores. Students thus admitted on a provisional basis must take the Graduate Record Examination General Test¹ within a specified time period after enrollment in order to be considered for admission to regular status.

¹ The Miller Analogies Test may be substituted for the Graduate Record Examination General Test by students in K–12 Educational Administration.

Requirements for the Degree

The Educational Specialist program consists of two full years (equivalent of 60 semester credits) of graduate study beyond the bachelor's degree. The second academic year of graduate study normally embraces 30 semester credits of graduate study. When the master's degree is earned in an appropriate field and at an approved institution, a minimum equivalent of 30 additional semester credits of study is required for the Educational Specialist degree. At least 10 of the last 30 semester credits that are required for the degree must be completed on the East Lansing campus.

The sequence of studies for each student pursuing the Educational Specialist degree is planned by the designated adviser with the student's guidance committee, following the procedure described for the Doctor of Philosophy degree program in the College. Students must satisfactorily complete a terminal comprehensive examination that is administered in accordance with department policies. Demonstrated competence in statistics or a reading knowledge of a foreign language will be required whenever such competence is judged appropriate to the program by the guidance committee.

Included in the 60 semester credits that are required for the Educational Specialist degree is study in the major area, in other areas of professional education, and in related areas outside of the College of Education. Field work, internship, externship, and similar laboratory–type experiences constitute at least 6 credits of the program.

Academic Standards

Candidates for the Educational Specialist degree must achieve a grade–point average of not less than 3.20 during the last half of the program (the last 30 semester credits).

Transfer Credits

Up to 8 semester credits beyond the master's degree may be transferred from a recognized educational institution upon approval of the student's guidance committee and the Dean of the College of Education.

Time Limit

All requirements must be completed within five calendar years from the time of the student's first enrollment after completing the master's degree. A student who does not take a master's degree is allowed seven years to complete the requirements.

Doctor of Philosophy

Doctoral programs in education at Michigan State University are available to students who show promise of becoming outstanding leaders, disciplined in theory development and research, and qualified to provide exemplary leadership in educational programs. Programs in the College of Education are planned to develop mastery of a comprehensive field, to foster creative intelligence in dealing with educational problems, and to encourage a breadth of understanding of related fields. Such doctoral study is necessarily rigorous and exacting.

Each candidate for the Doctor of Philosophy degree selects one of the major fields in one of the departments listed below:

- Department of Counseling, Educational Psychology and Special Education
 - counseling psychology
 - counselor education
 - educational psychology
 - measurement and quantitative methods
 - rehabilitation counselor education
 - school psychology
 - special education
- Department of Educational Administration
 - higher, adult, and lifelong education
 - K–12 educational administration
- Department of Kinesiology
 - kinesiology
- Department of Teacher Education
 - curriculum, teaching, and educational policy

In addition to meeting the requirements of the University as described in the *Graduate Education* section of this catalog, students must meet the requirements specified below.

Admission

Applicants must have a record acceptable to the College and department. A master's degree in an appropriate subject matter field may be required, but completion of a master's degree is not a guarantee of admission.

Following receipt of the application, all transcripts, required test scores, letters of recommendation, and any other information required by the program, doctoral applicants may be invited to meet with a faculty committee before a final decision on doctoral admission is reached.

Scores for the Graduate Record Examination General Test are required at the time the application for admission to a doc-

toral program is submitted. This examination must have been taken no longer than five years prior to the application for admission. At the discretion of the department, applicants may be admitted on a provisional basis pending the required Graduate Record Examination scores. Students who are thus admitted on a provisional basis must take the Graduate Record Examination General Test within a specified time period after enrollment in order to be considered for admission to regular status.

Requirements for the Degree

A program encompassing approximately two full years of study beyond the master's degree is planned with and for each candidate. The concentration of study in the various programs will vary with the candidate's goals, background of study, current status of understanding, and experience.

All doctoral candidates in the college are required to have basic knowledge in at least four of the following areas of general professional education: (1) administration; (2) curriculum; (3) psychological foundations; (4) research and evaluation methods; (5) social, philosophical, and historical foundations; (6) motor development and motor learning; (7) biological foundations; (8) ethical considerations; (9) issues of diversity in education. The specific areas selected shall be determined by the student's guidance committee in consultation with the student.

The candidate is required to choose a research problem and to report the research in the form of a dissertation. The dissertation is equivalent to 24 semester credits.

The student must pass written comprehensive examinations that are administered in accordance with department and school policies. For some programs these examinations will be under the direction of the appropriate members of the candidate's guidance committee, supplemented by such other faculty members as may be appointed for the purpose by the Dean of the College. For other programs, a common examination is administered at regularly scheduled times.

The candidate will be orally examined upon presentation of the dissertation. The examination will center on the dissertation itself, but will also include examination on relevant basic concepts.

LITERACY INSTRUCTION

Mark Conley, Coordinator

Master of Arts

The master's degree program in literacy instruction is designed for persons who aspire to be leaders in literacy education. The program focuses on preparing practitioners and researchers who are committed to having a voice in the reform of literacy inquiry, curriculum, policy, and practice.

The literacy instruction program provides varied opportunities for students to acquire knowledge of literacy from a theoretical perspective, comprehend research reports, learn how to generate researchable questions, develop their own research agendas, and engage in exemplary literacy instructional practice.

The content of the program meets the guidelines as set forth by the Professional Standards and Ethics Committee of the International Reading Association and the Professional Standards Committee of the Michigan Reading Association, and the Guidelines for University Programs for Training Reading Specialists developed by the Michigan Department of Educa-

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Literacy Instruction

tion. Upon completion of the requirements for the program, the college recommends a student who holds a State of Michigan teaching certificate for a reading endorsement to that certificate.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applicants must have had experience with elementary or secondary school age children. Applicants submit three letters of recommendation that address both their academic and professional leadership potential.

Requirements for the Master of Arts Degree in Literacy Instruction

The program is available only under Plan B (without thesis). The student must complete 33 credits distributed as follows:

1. Nine credits in foundations of literacy instruction: Teacher Education 840, 846; Counseling, Educational Psychology and Special Education 819.
2. One 3-credit course in educational foundations selected from the following areas: historical foundations, philosophical and social foundations, curriculum and instruction, learning and cognition, and measurement and evaluation.
3. Fifteen credits in literacy instructional methodology: Teacher Education 842, 843, 844, 847, 849.
4. Six credits in one of the following areas of specialization: language arts, children's and adolescent literature, classroom teaching, adult basic education, or clinical practice, or an area approved by the student's academic adviser.

**DEPARTMENT of
 COUNSELING,
 EDUCATIONAL
 PSYCHOLOGY and
 SPECIAL EDUCATION**

Richard S. Prawat, Chairperson

UNDERGRADUATE PROGRAM

The department offers a Bachelor of Arts degree program with a major in special education. This program is designed for students who plan to be certified as both a K-12 special education teacher and an elementary teacher. The program combines *preprofessional* preparation in one of the four areas of special education and in elementary education. Upon satisfactory completion of the requirements for the Bachelor of Arts degree with a major in special education, the bachelor's degree is granted. However, in order for Michigan State University to recommend a person for an elementary teaching certificate with an endorsement in special education, that person must also complete the requirements for the Teacher Certification Internship Year Studies program described under the heading *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

Requirements for the Bachelor of Arts Degree in Special Education

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in Special Education.
 - The completion of Mathematics 201 referenced in item 2. c. below may also satisfy the University mathematics requirement.
 - The University's Tier II writing requirement for the Special Education major is met by completing one course as specified below:
 - Deaf education area of emphasis: Counseling, Educational Psychology and Special Education 440. That course is referenced in item 2. d. (1) (a) below.
 - Emotional impairment area of emphasis: Counseling, Educational Psychology and Special Education 301. That course is referenced in item 2. d. (2) (a) below.
 - Learning disabilities area of emphasis: Counseling, Educational Psychology and Special Education 301. That course is referenced in item 2. d. (3) (a) below.
 - Visual impairment area of emphasis: Counseling, Educational Psychology and Special Education 444. That course is referenced in item 2. d. (4) (a) below.
2. The following requirements for the major:

	CREDITS
a. <i>Professional Education Courses:</i>	21
(1) All of the following courses:	
CEP 240 Diverse Learners in Multicultural Perspective	3
TE 150 Reflections on Learning	3
TE 301 Learners and Learning in Context (W)	4
TE 401 Teaching of Subject Matter to Diverse Learners (W)	5
TE 402 Crafting Teaching Practice (W)	6
b. Two approved <i>disciplinary minors</i> for teacher certification, only one of which may be a <i>group minor</i> . For a list of approved minors, refer to the statement on <i>TEACHER CERTIFICATION</i> in the <i>Department of Teacher Education</i> section of this catalog.	40 or 44
c. <i>Mathematics courses:</i>	6
(1) Both of the following courses:	
MTH 201 Mathematical Investigations I	3
MTH 202 Mathematical Investigations II	3
NOTE: The completion of Mathematics 201 may also satisfy the University mathematics requirement. Students who elect the mathematics disciplinary minor are <i>not</i> required to complete Mathematics 201 and 202.	
d. One of the following four areas of emphasis:	21 or 23
(1) Deaf education (23 credits):	
(a) All of the following courses (17 credits):	
CEP 341 American Sign Language and the Deaf Community	2
CEP 440 Introduction to Educating Deaf Children (W)	3
CEP 441A American Sign Language I	3
CEP 441B American Sign Language II	3
CEP 442A American Sign Language III	3
CEP 442B American Sign Language IV	3
(b) One of the following courses (3 credits):	
ASC 203 Introduction to Communication Sciences and Disorders	3
LIN 200 Introduction to Language	3
(c) One of the following courses (3 credits):	
ASC 333 Oral Language Development	3
LIN 450 Child Language Acquisition	3
(2) Emotional impairment (21 credits):	
(a) All of the following courses:	
CEP 301 Introduction to Students With Mild Impairments (W)	3
CEP 449 Behavior Management in Special Education	3
CEP 451 Models of Special Education Administration and Services	3
CEP 452 Students with Disabilities in the Regular Classroom	3
One course in developmental or cognitive psychology	3
One course in abnormal psychology	3
One course in family and child ecology or social work	3
(3) Learning disabilities (21 credits):	
(a) All of the following courses:	
ASC 333 Oral Language Development	3
CEP 301 Introduction to Students With Mild Impairments (W)	3
CEP 449 Behavior Management in Special Education	3
CEP 451 Models of Special Education Administration and Services	3
CEP 452 Students with Disabilities in the Regular Classroom	3
One course in developmental psychology	3
One course in cognitive psychology	3
(4) Visual impairment (23 credits):	

(a)	All of the following courses:	
CEP	443A	Braille Literacy I 3
CEP	443B	Braille Literacy II 4
CEP	444	Education of Students with Severe and Multiple Disabilities (W) 3
CEP	445	Educational Technology in Special Education 3
CEP	456A	Deaf-Blind Children and Youth in Elementary and Secondary Education 4
CEP	457	Principles of Orientation and Mobility 3
PSL	323	Physiology and Hygiene of the Eye. . . 3

TEACHER CERTIFICATION OPTION

The special education disciplinary major leading to the Bachelor of Arts degree is available for teacher certification.

Students with a special education disciplinary major must complete the following pedagogy courses:

Students who are seeking both elementary teacher certification and K-12 endorsement in *deaf education* satisfy all of the pedagogy course requirements by completing Counseling, Educational Psychology and Special Education 240, 502C, 801A, 802C, 803C, and 804C and Teacher Education 150, 301, 401, 402, and 501. [NOTE: Counseling, Educational Psychology and Special Education 502C, 801A, 802C, 803C, and 804C contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of deaf education.] Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *deaf education* must complete Counseling, Educational Psychology and Special Education 502C, 801A, 802C, 803C, and 804C.

Students who are seeking both elementary teacher certification and K-12 endorsement in *emotional impairment* satisfy all of the pedagogy course requirements by completing Counseling, Educational Psychology and Special Education 240, 502B, 801A, 802A, 803A, and 804A and Teacher Education 150, 301, 401, 402, and 501. [NOTE: Counseling, Educational Psychology and Special Education 502B, 801A, 802A, 803A, and 804A contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of emotional impairment.] Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *emotional impairment* must complete Counseling, Educational Psychology and Special Education 502B, 801A, 802A, 803A, and 804A.

Students who are seeking both elementary teacher certification and K-12 endorsement in *learning disabilities* satisfy all of the pedagogy course requirements by completing Counseling, Educational Psychology and Special Education 240, 502A, 801A, 802A, 803A, and 804A and Teacher Education 150, 301, 401, 402, and 501. [NOTE: Counseling, Educational Psychology and Special Education 502A, 801A, 802A, 803A, and 804A contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of learning disabilities.] Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *learning disabilities* must complete Counseling, Educational Psychology and Special Education 502A, 801A, 802A, 803A, and 804A.

Students who are seeking both elementary teacher certification and K-12 endorsement in *visual impairment* satisfy all of the pedagogy course requirements by completing Counseling, Educational Psychology and Special Education 240, 502D, 801A, 802D, 803D, and 804D and Teacher Education 150, 301, 401, 402, and 501. [NOTE: Counseling, Educational Psychology and Special Education 502D, 801A, 802D, 803D, and 804D contain disciplinary content, as well as pedagogical content.

Therefore, those courses are also counted toward the requirements for endorsement in the area of visual impairment.] Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *visual impairment* must complete Counseling, Educational Psychology and Special Education 502D, 801A, 802D, 803D, and 804D.

Students who elect the special education disciplinary major must contact the Department of Counseling, Educational Psychology and Special Education.

For additional information, refer to the statement on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The department offers the graduate degree programs that are listed below:

- Master of Arts*
 - counseling
 - educational technology and instructional design
 - measurement and quantitative methods
 - rehabilitation counseling
 - special education
- Educational Specialist*
 - school psychology
- Doctor of Philosophy*
 - counseling psychology
 - counselor education
 - educational psychology
 - measurement and quantitative methods
 - rehabilitation counselor education
 - school psychology
 - special education

Descriptions of the degree programs, organized by fields of study in alphabetical order, are presented below.

Students who are enrolled in Master of Arts, Educational Specialist, and Doctor of Philosophy degree programs in the Department of Counseling, Educational Psychology and Special Education may elect specializations in infant studies. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infant Studies* in the *College of Social Science* section of this catalog.

COUNSELING

Master of Arts

The master's degree program in counseling is designed to prepare students to become counselors in elementary or secondary schools, community colleges, or public or private community counseling offices. Through the selection of field placements and elective courses, the student develops a specialization that focuses on one of those employment settings.

Counselors who practice in K-12 schools in Michigan must have a teaching certificate and an additional endorsement in counseling. Persons who complete the Master of Arts degree program in counseling and who have teaching certificates will be fully qualified for an additional endorsement in counseling. At their request, graduates of the program will be recommended to the State of Michigan for this endorsement.

Counselors working in offices or agencies other than K-12 schools must be Licensed Professional Counselors through the State of Michigan Board of Counseling. Persons who complete

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Department of Counseling, Educational Psychology and Special Education

the Master of Arts degree program in counseling will have met all academic and field experience requirements to become Licensed Professional Counselors. At their request, graduates of the program will be recommended for licensure to the Board of Counseling.

The requirements for the program may be completed in two academic years (4 semesters) of full-time study. Most of the courses that are required for the program may be completed on a part-time basis during Fall and Spring semesters.

The master's degree program in counseling is *not* intended to prepare students for licensure as *psychologists* in the State of Michigan. Students who complete this program are not eligible for licensure as psychologists.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance and a statement of professional goals that is consistent with the objectives of the program. At least one letter of recommendation must be submitted from a professor associated with the student's undergraduate program or previous graduate study. The applicant must have the results of a recent Graduate Record Examination General Test submitted to the department.

The applicant is required to submit a departmental application form, as well as the University application form. Upon request for admission to the program, the departmental application form is mailed to the applicant with the University application form.

Requirements for the Master of Arts Degree in Counseling

The program is available only under Plan B (without thesis). The student must complete a total of 48 credits distributed as follows:

	CREDITS
1. <i>Counseling Core Courses</i> . All of the following courses:	39
CEP 821 Measurement and Evaluation for Counseling and Development	3
CEP 860A Perspectives in Multicultural Counseling	3
CEP 861 Counseling Theory, Philosophy, and Ethics	3
CEP 862 Introduction to Individual and Group Counseling	3
CEP 863 Counseling and Consulting Models and Strategies	3
CEP 864 Career Counseling	3
CEP 865 Assessment and Research in Counseling	3
CEP 893C Counseling Internship ^{1,2}	12
CEP 894C Counseling Practicum ¹	6
2. <i>Social and Cultural Foundations of Personality or Behavior</i> . At least one 3-credit course at the 800-900 level approved by the student's academic adviser	3
3. <i>Human Growth and Development</i> . At least one 3-credit course at the 800-900 level approved by the student's academic adviser	3
4. <i>Counseling Area of Specialization</i> . At least one 3-credit course at the 800-900 level that involves counseling in elementary or secondary schools, community colleges, or community agencies.	3

¹ The student is responsible for arranging field placements that are subject to the approval of the student's academic adviser. The field placements must be in the student's Counseling Area of Specialization.

² A full-time field placement in a single semester or a half-time field placement in each of two semesters is required.

COUNSELING PSYCHOLOGY

Doctor of Philosophy

The Doctor of Philosophy degree program in counseling psychology is a professional psychology training program designed to prepare scientist-practitioners who are proficient in

applying counseling and research skills to the advancement of human welfare. The counseling psychology program has been accredited by the American Psychological Association (APA). Students who are enrolled in the program are expected to abide by APA ethical principles and guidelines.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

To be admitted to the doctoral program in counseling psychology, a person must have:

1. Completed a master's degree in counseling psychology or in a related field, including an integrated practicum experience.
2. A grade-point average of 3.00 or higher in the last two semesters of the bachelor's degree program.
3. A grade-point average of 3.30 or higher in the master's degree program and in any additional graduate courses.
4. Professional goals and interests that are consistent with the objectives of the program, as judged by the faculty.
5. Strong reference letters, as judged by the faculty.
6. Satisfactory scores on the Graduate Record Examination General Test, as judged by the faculty.

The applicant is required to submit both departmental and University application forms. Persons are admitted to the program only for fall semester. The deadline for submitting applications for admission is *January 5* of the year in which admission is sought.

Requirements for the Doctor of Philosophy Degree in Counseling Psychology

The student must meet the requirements specified below:

	CREDITS
1. <i>Research Foundations</i> . All of the following courses:	14
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
CEP 933 Quantitative Methods in Educational Research II	3
CEP 934 Multivariate Data Analysis I	4
CEP 995 Practicum in Research Design and Data Analysis	1
2. <i>General Psychological Foundations</i> . All of the following courses:	13
CEP 903 Cognitive Development Across the Lifespan	3
CEP 904 Social-Emotional Development across the Lifespan	3
PSY 805 History of Psychology	4
PSY 811 Advanced Behavioral Neuroscience	3
3. <i>Counseling Psychology</i> . All of the following courses:	37
CEP 950 Proseminar in Counseling Psychology	3
CEP 960 Theoretical Foundations of Counseling Psychology	3
CEP 961 Perspectives on Diversity in Counseling Psychology	4
CEP 962 Psychology of Career Development	3
CEP 963 Ethics in Counseling Psychology	3
CEP 966 Psychological Diagnosis and Assessment I	3
CEP 967 Psychological Diagnosis and Assessment II	3
CEP 968 Research Methods in Counseling Psychology	3
CEP 969 Supervision of Counseling Psychologists	3
CEP 994A Counseling Psychology Practicum I	3
CEP 994B Counseling Psychology Practicum II	3
CEP 994C Advanced Practicum in Counseling Psychology	3
4. <i>Internship</i> . A field-based internship in Counseling Psychology that must be at an APA-accredited internship site, must extend over a full calendar year, and must consist of at least 2,000 supervised clock hours of practice. Any variations from these requirements must be reviewed and approved in advance by the program faculty.	

COUNSELOR EDUCATION

Doctor of Philosophy

The primary objective of the Doctor of Philosophy degree program with a major in counselor education is to prepare researcher-educators who plan to focus their professional efforts on (1) instructing graduate students who wish to become counselors in school and community settings and (2) conducting research concerning the cognitive and affective needs of

students in school systems and people in community settings. This program is not designed for persons wishing to become service-providers. Most of the graduates of this program will become professors in universities, although some may be employed by other institutions involved in research and training in the field of counseling.

In addition to meeting the requirements of the University and the College of Education, students must meet the requirements specified below.

Admission

To be admitted to the Doctor of Philosophy degree program with a major in counselor education, a person must have:

1. Completed a bachelor's degree with a grade-point average of 3.00 or higher during the last two years of the program.
2. Completed a master's degree in counseling or in a related field including a counseling practicum and/or internship experience.
3. A grade-point average of 3.30 or higher in the master's degree program and in any additional graduate courses.
4. Two or more years of experience in the helping professions.
5. Professional goals and interests that are commensurate with the purposes of the program, as judged by the faculty.
6. Strong personal recommendations, as judged by the faculty.
7. Satisfactory scores on the Graduate Record Examination General Test, as judged by the faculty.

A person who is otherwise qualified may be admitted to the program without having a counseling practicum and/or internship experience. Such an individual will be required to complete an internship in a field setting, *in addition to* the requirements for the degree.

The applicant is required to submit both departmental and University application forms. Persons are admitted to the program only for fall semester. The deadline for submitted applications for admission is *January 15* of the year in which admission is sought. If space is available in the program, late applications will be accepted.

Requirements for the Doctor of Philosophy Degree in Counselor Education

The student must meet the requirements specified below.

	CREDITS
1. <i>Educational Inquiry and Research.</i> All of the following courses: . . .	17 to 19
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
CEP 933 Quantitative Methods in Educational Research II	3
CEP 934 Multivariate Data Analysis I	4
CEP 968 Research Methods in Counseling Psychology	3
CEP 995 Practicum in Research Design and Data Analysis	1 to 3
2. <i>Counseling Core.</i>	15 or 16
a. All of the following courses (12 credits):	
CEP 860A Perspectives in Multicultural Counseling	3
CEP 960 Theoretical Foundations of Counseling Psychology	3
CEP 962 Psychology of Career Development	3
CEP 963 Ethics in Counseling Psychology	3
b. One of the following courses (3 or 4 credits):	
CEP 961 Perspectives on Diversity in Counseling Psychology	4
CEP 969 Supervision of Counseling Psychologists	3
3. <i>Counseling Proseminars.</i> Both of the following courses:	6
CEP 964 Counseling Foundations	3
CEP 965 Current Research and Issues in Counseling	3
4. <i>Counselor Education.</i> All of the following courses	9
CEP 944D Practicum in Counselor Education	3
CEP 970 Counseling Across Educational Settings	3
CEP 971 Teaching Practicum in Counselor Education	3

EDUCATIONAL PSYCHOLOGY

Doctor of Philosophy

The doctoral program in educational psychology prepares scholars to investigate human learning and development in various settings such as schools, workplaces, communities, and homes and as supported by various technologies such as multimedia and information technologies. Through these investigations, faculty and students seek to understand and improve educational practice.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance, a high score on the Graduate Record Examination General Test, and a statement of professional goals that is consistent with the objectives of the program. The applicant must submit one letter of recommendation from a professor or employer.

The applicant is required to submit a departmental application form, as well as the University application form. Upon request for admission to the program, the departmental application form is mailed to the applicant with the University application form.

Persons are admitted to the program only for fall semester. The deadline for submitting applications for admission is *January 15* of the year in which admission is sought. If space is available in the program, late applications will be accepted.

Requirements for the Doctor of Philosophy Degree in Educational Psychology

The student must meet the requirements specified below:

	CREDITS
1. <i>Educational Inquiry and Research.</i>	
a. The following courses:	
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
CEP 933 Quantitative Methods in Educational Research II	3
b. A research practicum of 1 to 3 credits approved by the student's guidance committee.	
2. <i>Proseminars.</i> Both of the following courses:	
CEP 900 Proseminar in Educational Psychology I	3
CEP 901 Proseminar in Educational Psychology II	3
3. <i>Constrained Electives.</i> Four courses from any <i>two</i> of the following 4 areas:	
a. <i>Learners:</i>	
CEP 903 Cognitive Development across the Lifespan	3
CEP 904 Social-Emotional Development across the Lifespan	3
CEP 905 Cultural Perspectives on Learning and Development	3
CEP 910 Current Issues in Motivation and Learning	3
b. <i>Subject Matter:</i>	
CEP 902 The Psychology of Learning School Subjects	3
CEP 915 Language, Literacy and Learning	3
c. <i>Teaching:</i>	
CEP 907 Psychological Study of Teaching	3
CEP 908 Instructional Theories	3
d. <i>Context:</i>	
CEP 906 Sociocultural Bases of Cognition and Education	3
CEP 909 Cognition and Technology	3
4. <i>Area of Specialization.</i> At least three courses in one or both of the following two emphasis areas: <i>Cognitive Studies of Classroom Learning; Cognition and Technology.</i> At least one of the courses must be outside the Department of Counseling, Educational Psychology and Special Education. All of the courses must be approved by the student's guidance committee.	

EDUCATION

Department of Counseling, Educational Psychology and Special Education

EDUCATIONAL TECHNOLOGY AND INSTRUCTIONAL DESIGN

Master of Arts

The Master of Arts degree program with a major in educational technology and instructional design prepares teachers, administrators, and other educational professionals for the thoughtful use of a variety of technologies to support teaching and learning in today's educational environments. The program draws on current theories of learning and development to understand the role of technology in the learning and transforming of valued content. The goal is to support educators in their efforts to prepare students who are technologically literate problem solvers and avid learners.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance, extensive practical experience in the field of educational technology, and a statement of professional goals that is consistent with the objectives of the program.

The applicant is required to submit both departmental and University application forms and two letters of recommendation from professors or employers.

Requirements for the Master of Arts Degree in Educational Technology and Instructional Design

The program is available only under Plan B (without thesis). The student must complete a total of 30 credits distributed as follows:

	CREDITS
1. <i>Core Courses.</i> All of the following courses:	9
CEP 800 Psychology of Learning in School and Other Settings	3
CEP 801 Psychological Development: Learner Differences and Commonalities	3
CEP 822 Approaches to Educational Research	3
2. <i>Area of Specialization.</i> One of the following two areas:	21
a. <i>Educational Technology</i> (21 credits):	
(1) All of the following courses (9 credits):	
CEP 810 Teaching for Understanding with Computers	3
CEP 811 Adapting Innovative Technologies to Education	3
CEP 812 Applying Instructional Development and Educational Technology for Clients	3
(2) Four of the following courses (12 credits): ¹	
CEP 807 Proseminar in Instructional Development and Educational Technology	3
CEP 808 Instructional Design I	3
CEP 809 Instructional Design II	3
CEP 811 Adapting Innovative Technologies to Education	3
CEP 813 Improving Student Problem Solving Skills through Technology	3
CEP 818 Instructional Design III	3
TE 831 Teaching School Subject Matter with Technology	3
b. <i>Instructional Design</i> (21 credits):	
(1) All of the following courses (12 credits):	
CEP 807 Proseminar in Instructional Development and Educational Technology	3
CEP 808 Instructional Design I	3
CEP 809 Instructional Design II	3
CEP 812 Applying Instructional Development and Educational Technology for Clients	3
(2) Three of the following courses (9 credits): ¹	
CEP 810 Teaching for Understanding with Computers	3
CEP 811 Adapting Innovative Technologies to Education	3
CEP 812 Applying Instructional Development and Educational Technology for Clients	3
CEP 813 Improving Student Problem Solving Skills through Technology	3

CEP 818	Instructional Design III	3
EAD 861A	Adult Learning	3
PSY 961	Training and Organizational Development	3
TE 831	Teaching School Subject Matter with Technology	3

¹ With the approval of the student's academic adviser, other 800-900 level courses related to educational technology and instructional design may be substituted for the courses listed below.

MEASUREMENT AND QUANTITATIVE METHODS

The Master of Arts and Doctor of Philosophy degree programs with majors in measurement and quantitative methods are designed for students who are interested in applying the skills and knowledge that they acquire in school systems, colleges, universities, state and federal departments of education, civil service departments, test companies, and research organizations.

Master of Arts

The master's degree program in measurement and quantitative methods provides opportunities to study quantitative methods and techniques of program evaluation. Students take course work in assessment, test construction, data analysis, and psychological foundations.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance, extensive practical experience in the field of measurement and quantitative methods, and a statement of professional goals that is consistent with the objectives of the program. Students who in the judgment of the faculty lack sufficient practical experience will be required to complete up to 6 credits in CEP 894D Practicum in Educational Psychology, in addition to the requirements for the degree.

The applicant is required to submit both departmental and University application forms and two letters of recommendation from professors or employers. Applications should be received by February 15.

Requirements for the Master of Arts Degree in Measurement and Quantitative Methods

The program is available only under Plan B (without thesis). The student must complete a total of 30 credits distributed as follows:

	CREDITS
1. <i>Core Courses.</i>	16
a. All of the following courses (13 credits):	
CEP 800 Psychology of Learning in School and Other Settings	3
CEP 801 Psychological Development: Learner Differences and Commonalities	3
CEP 822 Approaches to Educational Research	3
CEP 933 Quantitative Methods in Educational Research	4
b. One of the following two courses (3 credits):	
CEP 821 Measurement and Evaluation for Counseling and Development	3
CEP 920 Educational Assessment	3
2. <i>Area of Specialization:</i>	6 to 8
a. Two of the following courses:	
CEP 826 Evaluation of Educational Programs and Policies	3
CEP 921 Psychometric Theory I	3
CEP 934 Multivariate Data Analysis I	4
CEP 936 Synthesis of Educational Research	4
3. <i>Electives.</i>	6 to 8

Doctor of Philosophy

The doctoral program in measurement and quantitative methods is designed for persons who hope to develop and investigate methods of assessment and quantitative analysis, as well as for individuals who wish to become experts in the application and use of such methods. Graduates may teach courses in educational measurement, statistics, and program evaluation in colleges and universities and are often involved in research on problems of measurement and quantitative methods. Graduates also occupy leadership positions in educational, governmental, and other agencies concerned with educational measurement, statistics, and program evaluation. Students in the program learn to analyze research data and have opportunities to design and execute research studies and to consult on research design, data analysis, and evaluation. Students may develop and evaluate new statistical and psychometric models for use in educational research and behavioral science.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance, a high score on the Graduate Record Examination General Test, and a statement of professional goals that is consistent with the objectives of the program. The applicant must submit one letter of recommendation from a professor or employer.

The applicant is required to submit a departmental application form, as well as the University application form. Upon request for admission to the program, the departmental application form is mailed to the applicant with the University application form.

Persons are admitted to the program only for fall semester. The deadline for submitting applications for admission is *February 15* of the year in which admission is sought. If space is available in the program, late applications will be accepted.

Requirements for the Doctor of Philosophy Degree in Measurement and Quantitative Methods

The student must meet the requirements specified below:

	CREDITS
1. <i>Educational Inquiry and Research.</i>	
a. All of the following courses:	
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
CEP 933 Quantitative Methods in Educational Research II	3
CEP 934 Multivariate Data Analysis I	4
b. A research practicum of 1 to 3 credits approved by the student's guidance committee.	
2. <i>Proseminar.</i> The following course:	
CEP 900 Proseminar in Educational Psychology I	3
3. <i>Measurement and Evaluation Core.</i>	
a. Both of the following courses:	
CEP 921 Psychometric Theory I	3
CEP 922 Psychometric Theory II	3
b. One of the following courses:	
CEP 821 Measurement and Evaluation for Counseling and Development	3
CEP 920 Educational Assessment	3
c. One of the following courses:	
CEP 826 Evaluation of Educational Programs and Policies	3
CEP 923 Item Response Theory	3
CEP 924 Educational Data and the Law	3
CEP 939 Seminar in Educational Measurement	3
4. <i>Measurement and Quantitative Methods Interest Area.</i> At least two additional 3-credit courses in measurement and quantitative methods approved by the student's guidance committee.	

REHABILITATION COUNSELING

Master of Arts

Rehabilitation counseling is a profession devoted to enhancing the quality of life of individuals who have physical, mental, or emotional disabilities. Rehabilitation counselors provide counseling and other coordinated services to such individuals in the public, nonprofit, and private sectors of rehabilitation practice. The master's degree program in rehabilitation counseling emphasizes the philosophy, process, and professional discipline of rehabilitation. The program also emphasizes vocational assessment, vocational placement, and career development for persons with disabilities.

The Master of Arts degree program in rehabilitation counseling has been accredited by the Council on Rehabilitation Education.

Students who are interested in taking the examination to become a Certified Rehabilitation Counselor, or in obtaining State of Michigan licensure as counselors, should consult with an academic adviser to ensure that they complete the required courses.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Consideration is given to the applicant's previous academic and professional experience. There should be in each applicant's background a pattern of experience that supports his or her expressed desire to pursue advanced graduate studies in rehabilitation counseling. Appropriate evidence of such experience should be reflected in the applicant's letters of recommendation. The following are factors significant in determining admission to the program:

1. A bachelor's degree in an appropriate field from a recognized educational institution, with a grade-point average of 3.00 (B) or better in the last two years of undergraduate study;
2. Scores from the Graduate Record Examination General Test if the applicant's grade-point average is less than 3.00;
3. At least two letters of recommendation from professors or employers.

The applicant is required to submit a departmental application form, as well as the University application form. Upon request for admission to the program, the departmental application form is mailed to the applicant with the University application form.

Requirements for the Master of Arts Degree in Rehabilitation Counseling

The program is available only under Plan B (without thesis). The student must complete a total of 48 credits distributed as follows:

	CREDITS
1. <i>Counseling Core.</i> All of the following courses:	9
CEP 861 Counseling Theory, Philosophy, and Ethics	3
CEP 862 Introduction to Individual and Group Counseling	3
CEP 864 Career Counseling	3
2. <i>Rehabilitation Counseling Core.</i> All of the following courses:	15
CEP 870 Foundations of Rehabilitation Counseling	3
CEP 871 Medical and Psychological Aspects of Disability	3
CEP 872 Social and Environmental Aspects of Rehabilitation	3
CEP 873 Employment Strategies for Individuals with Disabilities	3
CEP 876 Professional Issues in Rehabilitation Counseling	3
3. <i>Research and Evaluation.</i> All of the following courses:	9
CEP 821 Measurement and Evaluation for Counseling and Development	3

EDUCATION

Department of Counseling, Educational Psychology and Special Education

CEP 822	Approaches to Educational Research	3	
CEP 877	Vocational Assessment and Research in Rehabilitation	3	15
4.	<i>Practicum and Internship.</i> Both of the following courses:		
CEP 893A	Rehabilitation Counseling Internship ¹	9	
CEP 894A	Rehabilitation Counseling Practicum ¹	6	

¹ Field placements must be approved by the department.

REHABILITATION COUNSELOR EDUCATION

Doctor of Philosophy

The Doctor of Philosophy degree program with a major in rehabilitation counselor education is designed to prepare individuals for careers as university-level educators and researchers and as consultants. The program is designed to provide the specialized knowledge and skills needed to help individuals with physical, mental, or emotional disabilities to become fully integrated and productive participants of society.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

To be admitted to the doctoral program in rehabilitation counseling, a person must have:

1. A grade-point average of 3.30 or higher in master's degree course work in rehabilitation counseling or in a related field.
2. Strong letters of personal and professional recommendation regarding the applicant's academic capability and professional and personal qualifications, as judged by the faculty.
3. Relevant post-master's work experience in rehabilitation counseling, as judged by the faculty.
4. Professional goals and interests that are compatible with the objectives and philosophy of the program, as judged by the faculty.
5. Satisfactory scores on the Graduate Record Examination General Test, as judged by the faculty.

The applicant is required to submit both departmental and University application forms. Persons are admitted to the program only for fall semester. The deadline for submitted applications for admission is *January 15* of the year in which admission is sought.

Applicants to the Doctor of Philosophy degree program with a major in rehabilitation counselor education are expected to have completed a master's degree program in rehabilitation counseling accredited by the Council on Rehabilitation Education. Applicants with a master's degree in counseling, psychology, or another human service field would need to complete the core master's level courses in rehabilitation counseling *in addition* to the requirements for the degree. Students will be encouraged to enroll in new course content areas that were not addressed in their master's degree programs.

Requirements for the Doctor of Philosophy Degree in Rehabilitation Counselor Education

The student must meet the requirements specified below.

		CREDITS
1.	<i>Educational Inquiry and Research.</i> All of the following courses:	17 to 19
CEP 930	Educational Inquiry	3
CEP 932	Quantitative Methods in Educational Research I	3
CEP 933	Quantitative Methods in Educational Research II	3
CEP 934	Multivariate Data Analysis I	4
CEP 968	Research Methods in Counseling Psychology	3
CEP 995	Practicum in Research Design and Data Analysis	1 to 3
2.	<i>Counseling Core.</i> Both of the following courses:	6

CEP 960	Theoretical Foundations of Counseling Psychology	3	
CEP 962	Psychology of Career Development	3	
3.	<i>Rehabilitation Counseling Proseminars.</i> Both of the following courses:		6
CEP 964	Counseling Foundations	3	
CEP 965	Current Research and Issues in Counseling	3	
4.	<i>Professional Preparation Core.</i> The following course:		6
CEP 944D	Practicum in Counselor Education ¹	6	
5.	<i>Learning and Development.</i> Two of the following courses:		6 or 7
CEP 903	Cognitive Development across the Lifespan	3	
CEP 905	Cultural Perspectives on Learning and Development	3	
CEP 961	Perspectives on Diversity in Counseling Psychology	4	
6.	<i>Area of Specialization.</i> A minimum of 12 credits in courses that constitute a topic area chosen in consultation with the student's academic adviser and guidance committee. Examples of course work in three topic areas follow:		
a.	Rehabilitation policy and research: Courses related to rehabilitation and disability issues in such areas as public administration, employment and training programs, organizational development, program evaluation, legislation, and social policy development.		
b.	At risk populations-transition to work: Courses related to policy issues in special education, organization of education and training for diverse learners, transition services and career development, supported employment, and habilitation strategies.		
c.	Disability management and employment: Courses related to organizational behavior in labor and industrial relations, organizational development, equal employment opportunities, occupational safety and health policy, personnel selection and evaluation, and psychology of motivation and attitudes at work.		

¹ To satisfy this requirement, 3 credits of this course must focus on teaching and 3 credits must focus on supervision.

SCHOOL PSYCHOLOGY

Educational Specialist

The Educational Specialist degree program in school psychology is designed for persons who plan to devote their professional careers to school psychological services and who desire to achieve a level of proficiency that will enable them to assume leadership roles. The program consists of a planned sequence of courses, practica, and internship experiences that are complemented by graduate study in educational psychology and supporting disciplines.

In addition to meeting the requirements of the College of Education, students must meet the requirements specified below.

Admission

An individual should have a bachelor's degree in psychology or education and at least 18 credits in psychology, 9 credits in education, and a valid teacher's certificate in order to be considered for admission. A person with a master's degree in psychology or a related field may also apply for admission. The applicant is required to submit a departmental application form, as well as the University application form. Upon request for admission to the program, the departmental application form is mailed to the applicant with the University application form.

To be admitted to the program, a person with a bachelor's, but not a master's, degree must have a minimum grade-point average of 3.00 (B) for the last two years of undergraduate work. A person with a master's degree must have a minimum grade-point average of 3.50 (B+) for prior graduate work. An admissions interview may be required.

Applicants should provide a written statement to the effect that they will be available to serve an internship of 1200 clock hours (30 weeks). For employment in other states, an internship of nine months may be required.

Persons are admitted to the program only for fall semester. The deadline for submitting applications for admission is

January 15 of the year in which admission is sought. If space is available in the program, late applications will be accepted.

Requirements for the Educational Specialist Degree in School Psychology

Students must meet the requirements specified below:

1. A minimum of 18 credits in courses in school psychology, excluding courses that involve clinical or field experiences, approved by the student's guidance committee.
2. A minimum of 6 credits in a supervised internship.^{1,2}
3. A minimum of 6 additional credits in courses in areas such as learning and development, or research and evaluation, approved by the student's guidance committee.
4. Additional credits as determined by the student's guidance committee.

¹ Both the courses and the field placements must be approved by the student's guidance committee.

² To meet this requirement, the student must complete 1200 supervised clock hours, at least 600 of which must be completed in a school setting.

Doctor of Philosophy

The Doctor of Philosophy degree program with a major in school psychology is designed to prepare school psychologists who will become scientist-practitioners in school and university settings. The school psychology program has been accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP). Students who are enrolled in the program are expected to abide by the ethical principles of the APA and NASP.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

To be admitted to the doctoral program in school psychology, a person must have:

1. A bachelor's degree in education or psychology, or in a related field. A master's degree or a teaching certificate is not required, but evidence of experience with children, youth, and families is desirable.
2. A grade-point average of 3.00 or higher in the last two years of the bachelor's degree program.
3. A grade-point average of 3.50 or higher in courses taken at the master's degree level or beyond.
4. Professional goals and interests that are consistent with the objectives of the program, as judged by the faculty.
5. Strong personal recommendations, as judged by the faculty.
6. Satisfactory scores on the Graduate Record Examination General Test, as judged by the faculty.

The applicant must submit both departmental and University application forms. Persons are admitted to the program only for fall semester. The deadline for submitting applications for admission is *January 15* of the year in which admission is sought. If space is available in the program, late applications will be accepted.

Requirements for the Doctor of Philosophy Degree in School Psychology

The student must meet the requirements specified below:

	CREDITS
1. <i>Educational Inquiry and Research.</i> All of the following courses: . . .	10 to 12
CEP 930 Educational Inquiry.	3
CEP 932 Quantitative Methods in Educational Research I.	3
CEP 933 Quantitative Methods in Educational Research II.	3
CEP 995 Practicum in Research Design and Data Analysis	1 to 3
2. <i>Psychological Foundations:</i>	20 or 21
a. All of the following courses (17 credits):	
CEP 900 Proseminar in Educational Psychology I.	3
CEP 903 Cognitive Development across the Lifespan	3
CEP 904 Social-Emotional Development Across the Lifespan	3

CEP 961 Perspectives on Diversity in Counseling Psychology	4
PSY 805 History of Psychology	4
b. One of the following courses (3 or 4 credits):	
PSY 811 Advanced Behavioral Neuroscience	3
PSY 851 Neuropsychology	4
3. <i>Theoretical Foundations.</i> Both of the following courses:	6
CEP 960 Theoretical Foundations of Counseling Psychology	3
CEP 963 Ethics in Counseling Psychology	3
4. <i>School Psychology.</i> ¹ All of the following courses:	45
a. CEP 802A Reflection and Inquiry in Teaching Special Education I: Mild Impairment	3
CEP 803A Professional Role in Teaching Special Education II: Assessment of Mild Impairment.	3
CEP 858 Special Education Law	3
CEP 880 Individual Measurement: The Binet and Wechsler Scales	3
CEP 881 Personality Assessment	3
CEP 883 Psychology of Classroom Discipline	3
CEP 884 Roles and Functions of School Psychologists: Focus on Consultation	3
CEP 885 Behavior Disorders in Children	3
CEP 894B School Psychology Practicum	3
CEP 918 School-Based Psychological Interventions	3
CEP 919 Current Research and Issues in School Psychology	3
CEP 920 Educational Assessment	3
EAD 800 Organization Theory in Education	3
b. Electives in Psychology or Family and Child Ecology.	6
5. <i>Internship.</i> A field-based internship related to school psychology that must extend over a full calendar year and that must consist of at least 2,000 supervised clock hours of practice. The department must approve the course or courses that are related to this requirement and the student's field placements.	

¹ Students who hold an Educational Specialist degree with a major in School Psychology may not be required to complete all of the courses listed.

SPECIAL EDUCATION

Graduate study in special education leads to the Master of Arts or Doctor of Philosophy degree.

Persons who hold valid State of Michigan teaching certificates and who wish endorsements in special education should refer to the statement on *Other Educational Opportunities for Teachers* in the *Department of Teacher Education* section of this catalog.

Persons who are interested in meeting the requirements for State of Michigan approval as a teacher of physical education for persons with disabilities, or as a teacher of preprimary impaired students, either in addition to or apart from earning a Master of Arts or Doctor of Philosophy degree in special education, should consult with an academic adviser to ensure that they complete the required courses.

Master of Arts

The master's degree program with a major in special education is designed for persons who plan to be involved in the education of students with disabilities. Students who are enrolled in the program must complete *one* of the following seven areas of emphasis: deaf education, deaf-blind education, emotional impairment, learning disabilities, orientation and mobility teaching, orientation and mobility, or visually impaired.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

An applicant for admission to the master's degree program in special education is required to submit:

1. Both departmental and University application forms.
2. Three letters of recommendation from persons knowledgeable about the applicant's academic potential to pursue graduate study and teaching competence or potential.

EDUCATION

Department of Counseling, Educational Psychology and Special Education

Applications are reviewed by faculty who look for indications of a high probability of success. The following factors are significant in determining admission to the program:

1. A grade-point average of 3.00 or higher in all undergraduate and graduate courses.
2. A valid teaching certificate or eligibility for admission to the teacher certification program.
3. Experience working with children and youth with disabilities (e.g., in a school or camp program) that is acceptable to the faculty. Ideally, the experience should be related to the applicant's planned area of emphasis.
4. Professional goals that are consistent with the objectives of the program.
5. Scores from either the Graduate Record Examination General Test or the Miller Analogies Test that are acceptable to the faculty.
6. Performance on the Sign Communication Proficiency Interview, for students who plan to pursue the deaf education area of emphasis.

Students who enter the master's degree program *without* a valid teaching certificate must complete the requirements for teacher certification, in addition to meeting the requirements for the master's degree in special education with *one* of the following areas of emphasis: deaf education, emotional impairment, learning disabilities, or visually impaired. Upon completion of the requirements for teacher certification and the master's degree, the student will receive a recommendation for a State of Michigan teaching certificate and endorsement in the area of emphasis. For additional information, refer to the statement on TEACHER CERTIFICATION in the *Department of Teacher Education* section of this catalog.

Students who enter the master's degree program with a valid teaching certificate and who desire an additional endorsement in an area of special education also must meet the requirements for *one* of the following areas of emphasis: deaf education, emotional impairment, learning disabilities, or visually impaired. Upon completion of the requirements for the master's degree, the student will receive a recommendation for an additional State of Michigan endorsement in the area of emphasis.

The following three areas of emphasis do *not* lead to a recommendation for a teaching certificate or an additional endorsement in special education: deaf-blind education, orientation and mobility teaching, and orientation and mobility.

Requirements for the Master of Arts Degree in Special Education

The student must complete *one* of the following seven areas of emphasis: deaf education, deaf-blind education, emotional impairment, learning disabilities, orientation and mobility teaching, orientation and mobility, or visually impaired. The total number of credits required for the Master of Arts degree in special education depends upon the area of emphasis that the student selects. The program is available only under Plan B (without thesis).

Deaf Education¹

The student who elects the deaf education area of emphasis must complete a total of 30² credits for the degree including:

	CREDITS
1. All of the following courses:	30
CEP 440 Introduction to Educating Deaf Children (W) ²	3
CEP 444 Education of Students with Severe and Multiple Disabilities (W)	3
CEP 449 Behavior Management in Special Education	3
CEP 801A Professional Role in Teaching Special Education I: Collaboration and Consultation	3
CEP 802C Reflection and Inquiry in Teaching Special Education I: Deaf Education	3
CEP 803C Professional Role in Teaching Special Education II: Assessment of Deaf Students	3
CEP 804C Reflection and Inquiry in Teaching Special Education II: Deaf Education	3
CEP 844 Advanced Studies in American Sign Language	1
CEP 893D Special Education Internship: Teaching Deaf Children and Youth ³	6

CEP 894I Special Education Practicum: Children and Youth in Deaf Education ³	2
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¹ A student who in the judgment of the faculty has not completed appropriate courses in American Sign Language, exceptional children, language development, and audiology must complete such courses *in addition to* the courses that are listed below.

² A student who possesses a teaching certificate and an endorsement in deaf education, and who has completed Counseling, Educational Psychology and Special Education 440, will be required to substitute Counseling, Educational Psychology and Special Education 456A (4 credits) for that course.

³ Persons must obtain a rating of Beginners Plus or higher on the Sign Communication Proficiency interview prior to being assigned a teaching internship placement.

Deaf-blind Education^{1,2}

The student who elects the deaf-blind area of emphasis must complete a total of 30 or 36 credits for the degree, depending on whether the student is required to complete *Option I* or *Option II*, including:

	CREDITS
1. All of the following courses:	12
CEP 801A Professional Role in Teaching Special Education I: Collaboration and Consultation	3
CEP 802D Reflection and Inquiry in Teaching Special Education I: Visual Impairment	3
CEP 803D Professional Role in Teaching Special Education II: Visual Impairment	3
CEP 804D Reflection and Inquiry in Teaching Special Education II: Visual Impairment	3
2. <i>One</i> of the following options:	18 or 24
Option I (for students who possess an endorsement in visually impaired) (18 credits):	
All of the following courses:	
CEP 440 Introduction to Educating Deaf Children (W)	3
CEP 441A American Sign Language I	3
CEP 441B American Sign Language II	3
CEP 802C Reflection and Inquiry in Teaching Special Education I: Deaf Education	3
CEP 856B Special Education Internship: Teaching Deaf-Blind Children and Youth	6
Option II (for students who possess an endorsement in deaf education) (24 credits):	
All of the following courses:	
CEP 443A Braille Literacy I	3
CEP 443B Braille Literacy II	4
CEP 445 Educational Technology in Special Education	3
CEP 456A Deaf-Blind Children and Youth in Elementary and Secondary Education	4
CEP 457 Principles of Orientation and Mobility	3
CEP 856B Special Education Internship: Teaching Deaf-Blind Children and Youth	7

¹ The deaf-blind area of emphasis is available only to those students who possess a teaching certificate and an endorsement in either deaf education or visually impaired.

² A student who in the judgment of the faculty has not completed courses in language development, audiology, and severe and multiple disabilities must complete such courses *in addition to* the courses that are listed below.

Emotional Impairment¹

The student who elects the emotional impairment area of emphasis must complete a total of 36 credits for the degree including:

	CREDITS
1. All of the following courses:	30
CEP 449 Behavior Management in Special Education ²	3
CEP 451 Models of Special Education Administration and Services ²	3
CEP 801A Professional Role in Teaching Special Education I: Collaboration and Consultation	3
CEP 802A Reflection and Inquiry in Teaching Special Education I: Mild Impairment	3
CEP 803A Professional Role in Teaching Special Education II: Assessment of Mild Impairment	3
CEP 804A Reflection and Inquiry in Teaching Special Education II: Mild Impairment	3
CEP 893G Special Education Internship: Teaching Children with Emotional Impairments ³	6
CEP 894H Special Education Practicum: Children and Youth with Emotional Impairments	6
2. <i>One</i> of the following courses:	3
CEP 883 Psychology of Classroom Discipline	3
CEP 885 Behavior Disorders in Children	3
PSY 424 Child and Family Psychopathology (W)	3
3. <i>One</i> of the following courses:	3
CEP 804 Psychology of Adolescence for Teachers	3
CEP 814 Emotional and Social Development of School-Age Youth	3
FCE 442 Ethnic Minority Families in America	3

¹ A student who in the judgment of the faculty has not completed an appropriate course in exceptional children must complete such a course *in addition to* the courses that are listed below.

² A student who possesses a teaching certificate and an endorsement in emotional impairment, and who has completed Counseling, Educational Psychology and Special Education

449 and 451, will be required to substitute Counseling, Educational Psychology and Special Education 858 and 885 for those courses.

³ A student who possesses a teaching certificate and an endorsement in special education will be required to substitute additional courses approved by the department for Counseling, Educational Psychology and Special Education 893G.

Learning Disabilities¹

The student who elects the learning disabilities area of emphasis must complete a total of 33 credits for the degree including:

	CREDITS
1. All of the following courses:	30
CEP 449 Behavior Management in Special Education ²	3
CEP 451 Models of Special Education Administration and Services ²	3
CEP 801A Professional Role in Teaching Special Education I: Collaboration and Consultation	3
CEP 802A Reflection and Inquiry in Teaching Special Education I: Mild Impairment	3
CEP 803A Professional Role in Teaching Special Education II: Assessment of Mild Impairment	3
CEP 804A Reflection and Inquiry in Teaching Special Education II: Mild Impairment	3
CEP 893F Special Education Internship: Teaching Children with Learning Disabilities ³	6
CEP 894G Special Education Practicum: Children and Youth with Learning Disabilities	6
2. One of the following courses:	3
TE 842 Advanced Methods of Elementary School Reading	3
TE 843 Reading, Writing, and Reasoning in Secondary School Subjects	3
TE 844 Classroom Literacy Assessment	3
TE 845 Language Diversity and Literacy Instruction	3
TE 847 Methods for Teaching Language Arts	3
TE 848 Methods of Writing Instruction	3
TE 849 Methods and Materials for Teaching Children's and Adolescent Literature	3

¹ A student who in the judgment of the faculty has not completed an appropriate course in exceptional children must complete such a course *in addition to* the courses that are listed below.

² A student who possesses a teaching certificate and an endorsement in learning disabilities, and who has completed Counseling, Educational Psychology and Special Education 449 and 451, must substitute Counseling, Educational Psychology and Special Education 858 and 885 for those courses.

³ A student who possesses a teaching certificate and an endorsement in special education will be required to substitute additional courses approved by the department for Counseling, Educational Psychology and Special Education 893F.

Orientation and Mobility Teaching^{1,2}

The student who selects the orientation and mobility teaching area of emphasis must complete 30 credits for the degree including:

	CREDITS
1. All of the following courses:	28
CEP 801A Professional Role in Teaching Special Education I: Collaboration and Consultation	3
CEP 802D Reflection and Inquiry in Teaching Special Education I: Visual Impairment	3
CEP 803D Professional Role in Teaching Special Education II: Visual Impairment	3
CEP 804D Reflection and Inquiry in Teaching Special Education II: Visual Impairment	3
CEP 822 Approaches to Educational Research	3
CEP 857B Techniques of Orientation and Mobility I	3
CEP 857C Techniques of Orientation and Mobility II	3
CEP 894E Special Education Practicum: Children and Youth in Orientation and Mobility	7
2. Electives approved by the student's academic adviser:	2

¹ The orientation and mobility teaching area of emphasis is available only to those students who possess a teaching certificate and an endorsement in visually impaired.

² Upon completion of the requirements for the Master of Arts degree with orientation and mobility teaching as the area of emphasis, the faculty will recommend the student for professional certification by the Association for Education and Rehabilitation of the Blind and Visually Impaired.

Orientation and Mobility^{1,2,3}

The student who elects the orientation and mobility area of emphasis must complete 30 credits for the degree including:

	CREDITS
1. All of the following courses:	26
CEP 445 Educational Technology in Special Education	3
CEP 456A Deaf-Blind Children and Youth in Elementary and Secondary Education	4
CEP 457 Principles of Orientation and Mobility	3
CEP 822 Approaches to Educational Research	3
CEP 857B Techniques of Orientation and Mobility I	3
CEP 857C Techniques of Orientation and Mobility II	3
CEP 894E Special Education Practicum: Children and Youth in Orientation and Mobility	7
2. An elective approved by the student's academic adviser:	4

¹ The orientation and mobility area of emphasis is available only to students who do not possess a teaching certificate and an endorsement in visually impaired.

² A student who in the judgment of the faculty has not completed two appropriate courses in Braille (literacy and Nemeth with a minimum grade of 3.0 in each course), one course in physiology of the eye, one course in severe and multiple disabilities, one course in exceptional children, and one course in basic computer use must complete such courses *in addition to* the courses that are listed below.

³ Upon completion of the requirements for the Master of Arts degree with orientation and mobility as the area of emphasis, the faculty will recommend the student for professional certification by the Association for Education and Rehabilitation of the Blind and Visually Impaired.

Visually Impaired¹

The student who elects the visually impaired area of emphasis must complete a total of 30 credits for the degree including:

	CREDITS
1. All of the following courses:	28
CEP 445 Educational Technology in Special Education ²	3
CEP 456A Deaf-Blind Children and Youth in Elementary and Secondary Education ³	4
CEP 457 Principles of Orientation and Mobility ²	3
CEP 801A Professional Role in Teaching Special Education I: Collaboration and Consultation	3
CEP 802D Reflection and Inquiry in Teaching Special Education I: Visual Impairment	3
CEP 803D Professional Role in Teaching Special Education II: Visual Impairment	3
CEP 804D Reflection and Inquiry in Teaching Special Education II: Visual Impairment	3
CEP 854B Special Education Internship: Teaching Children and Youth with Visual Impairments	6
2. One elective approved by the student's academic adviser:	2

¹ A student who in the judgment of the faculty has not completed two appropriate courses in Braille (literacy and Nemeth with a minimum grade of 3.0 in each course), one course in physiology of the eye, one course in severe and multiple disabilities, one course in exceptional children, one course in assessment, and one course in basic computer use must complete such courses *in addition to* the courses that are listed below.

² A student who possesses a teaching certificate and an endorsement in visually impaired, and who has completed Counseling, Educational Psychology and Special Education 445, 456A, and 457, must substitute Counseling, Educational Psychology and Special Education 822 and 857C for those courses.

Doctor of Philosophy

The doctoral program with a major in special education is available to students who show promise of becoming outstanding leaders in the administration of special education programs or in college instruction. Students' programs of study are planned to develop mastery of a comprehensive field, to foster creative approaches to the educational problems of exceptional children, and to encourage a breadth of understanding of related disciplines.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance, a high score on the Graduate Record Examination General Test, and a statement of professional goals that is consistent with the objectives of the program. The applicant must submit one letter of recommendation from a professor or employer.

The applicant is required to submit a departmental application form, as well as the University application form. Upon request for admission to the program, the departmental application form is mailed to the applicant with the University application form.

Persons are admitted to the program only for fall semester. The deadline for submitting applications for admission is February 15 of the year in which admission is sought. If space is available in the program, late applications will be accepted.

EDUCATION

Department of Counseling, Educational Psychology and Special Education

Requirements for the Doctor of Philosophy Degree in Special Education

Students must meet the requirements specified below:

1. *Educational Inquiry and Research.*
 - a. The following courses:

CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
CEP 933 Quantitative Methods in Educational Research II	3
 - b. A research practicum of 1 to 3 credits approved by the student's guidance committee.
2. *General Professional Core.* Both of the following courses:

CEP 900 Proseminar in Educational Psychology I	3
CEP 901 Proseminar in Educational Psychology II	3
3. *Special Education Core.* All of the following courses:

CEP 940 Policy Analysis of Trends in Special Education	3
CEP 941 Academic Issues in Special Education for At-Risk Students	3
CEP 942 Educational Perspectives on Low-Incidence Populations in Special Education	3
CEP 943 Multicultural Issues in Special Education	3
CEP 949 Critical Issues in Special Education	3

DEPARTMENT of EDUCATIONAL ADMINISTRATION

Philip A. Cusick, Chairperson

GRADUATE STUDY

Graduate study in the Department of Educational Administration leads to the Master of Arts, Educational Specialist, or Doctor of Philosophy degree. Each degree represents a different level of understanding and skill. Programs and specific degrees available are:

- Higher, Adult, and Lifelong Education:
 - Master of Arts
 - Doctor of Philosophy
- K-12 Educational Administration:
 - Master of Arts
 - Educational Specialist
 - Doctor of Philosophy
- Student Affairs Administration:
 - Master of Arts

Students who are interested in obtaining administrative certification, either in addition to or apart from earning a graduate degree in a program that is administered by the Department of Educational Administration, should consult with an academic adviser to ensure that they complete the required courses.

HIGHER, ADULT and LIFELONG EDUCATION

Master of Arts

The master's degree program in higher, adult and lifelong education is designed for persons who are preparing for careers in post-secondary education, public and nonprofit agencies, or business and industry. The program focuses on the broad study of issues, institutions, and practices in the field with emphasis on instruction, program development, and program management.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

The applicant must submit three letters of recommendation from persons who are acquainted with the applicant's academic and employment experiences and potential.

Requirements for the Master of Arts Degree in Higher, Adult and Lifelong Education

The program is available only under Plan B (without thesis). The student must complete 30 credits distributed as follows:

	CREDITS
1. All of the following courses:	12
CEP 822 Approaches to Educational Research	3
EAD 800 Organization Theory in Education	3
EAD 860 The Concept of the Learning Society	3
EAD 861A Adult Learning	3
2. Four of the following courses:	12
EAD 801 Leadership and Organizational Development	3
EAD 802 Staff and Professional Development	3
EAD 803 Planning, Budgeting, and Evaluation	3
EAD 861B Strategies for Teaching Adults	3
EAD 861C Literacy in the Community and Workplace	3
EAD 862A Training in Industry	3
EAD 862B Adult Career Development	3
3. Two additional courses approved by the student's academic adviser.	6

Doctor of Philosophy

The doctoral program in higher, adult, and lifelong education is designed for individuals pursuing careers as administrators, researchers, professors, or policymakers in the field. The program emphasizes the complex and multifaceted nature of post-secondary education in the United States and other nations. By studying the diversity of contexts, structures, practices, and participants, students in the program should gain a broad, comparative perspective on the interrelated systems that influence the provision of post-secondary education in modern societies. The program is designed to assist students to distill from these perspectives a meaningful professional agenda and to acquire the skills and knowledge needed to carry this agenda forward.

The program is based on the belief that practitioners in the field of higher, adult, and lifelong education must (1) be knowledgeable about current practices, trends, and issues and (2) be able to advance the current boundaries of professional knowledge.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

The applicant must submit three letters of recommendation from persons who are acquainted with the applicant's academic and professional experience, performance, and potential. Applicants may be required to participate in an interview and to submit a sample of scholarly writing.

Requirements for the Doctor of Philosophy Degree in Higher, Adult, and Lifelong Education

	CREDITS
1. <i>Educational Inquiry and Research.</i>	
a. The following courses:	
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
b. One of the following courses:	

- CEP 933 Quantitative Methods in Educational Research II 3
A 900-level course in advanced qualitative methods approved by the student's guidance committee.
- c. A research practicum to be taken after the student has completed the courses referenced in items 1.a. and 1.b. above:
EAD 995 Research Practicum in Educational Administration 3
- 2. *Proseminar*. The following course:
EAD 960 Proseminar in Higher, Adult, and Lifelong Education 3
- 3. *Areas of specialization within the major*.
 - a. One course from *each* of the following three areas of study: institutional and policy studies, teaching and learning environments, and organizational and administrative behavior (9 credits).
 - b. Twelve *additional* credits in courses in *one* of the 3 areas of study referenced in item 3.a. above.
- 4. Cognate outside the major or electives (9 credits).

K-12 EDUCATIONAL ADMINISTRATION

The graduate degree programs in K-12 educational administration are designed to prepare persons for leadership positions in elementary and secondary education in the United States and other nations.

Master of Arts

The master's degree program in K-12 educational administration is designed to prepare individuals for administrative positions in schools and school districts. The program is open to classroom teachers and noneducators who are interested in the practice or teaching of educational administration.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Requirements for the Master of Arts Degree in K-12 Educational Administration

The program is available only under Plan B (without thesis). The student must complete 30 credits and meet the requirements specified below.

	CREDITS
1. All of the following courses:	9
CEP 822 Approaches to Educational Research	3
EAD 800 Organization Theory in Education	3
EAD 855 Research in Educational Administration	3
2. A minimum of 18 credits in courses that are designed to provide theoretical and applied perspectives on specific leadership functions in educational organizations. The courses must be approved by the student's academic adviser.	18
3. A minimum of 3 credits in courses approved by the student's academic adviser.	3

Educational Specialist

The Educational Specialist degree program in K-12 educational administration is intended for school administrators who hold master's degrees in that field and who wish to continue their professional education *or* for educators who hold master's degrees in other fields and who want to prepare for administrative positions in K-12 education. However, an applicant may be admitted without having earned a master's degree.

In addition to meeting the requirements of the College of Education, students must meet the requirements specified below.

Admission

A master's degree in a field approved by the department is normally required for admission to the Educational Specialist degree program in K-12 educational administration.

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success. Such indications include a high level of academic performance at the bachelor's and master's levels, evidence of leadership in education, and a statement of professional goals that is consistent with the objectives of the program. Applicants must submit a sample of their writing.

Requirements for the Educational Specialist Degree in K-12 Educational Administration¹

Students must meet the requirements specified below.

1. A minimum of 21 credits in 800-900 level courses in the major area excluding clinical or field type experiences.
2. A minimum of 6 credits in a supervised clinical practicum. The credits must be in 800-900 level courses that involve fieldwork, internship, externship, and laboratory type experiences.
3. Additional credits in the following courses as determined by the student's academic adviser:
 - a. Courses in general professional education.
 - b. Courses in a discipline outside the College of Education, or in a discipline in education other than K-12 educational administration.

¹ At least 20 of the last 30 credits that are required for this program must be completed while enrolled in the program.

Residence

At least 6 of the credits that are required for the degree must be earned on the East Lansing campus within a single semester.

Doctor of Philosophy

The doctoral degree program in K-12 educational administration is designed to prepare persons who will become administrators in K-12 school systems; administrators, educators, or researchers in institutions of higher education; or policy analysts or policy makers in a variety of agencies concerned with K-12 education.

Perspectives on K-12 educational administration, study of topics of enduring concern to educational administrators, clinical experiences, and applied research are integral aspects of this doctoral program.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications of a high probability of success within the program. Such indications include a high level of academic performance at the bachelor's and master's levels, evidence of leadership in education, and a statement of professional goals that is consistent with the objectives and resources of the program. Applicants must submit a writing sample.

Requirements for the Doctor of Philosophy Degree in K-12 Educational Administration

Students must meet the requirements specified below.

	CREDITS
1. <i>Educational Inquiry and Research</i> :	
a. The following courses:	
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
b. One of the following courses:	

EDUCATION

Department of Educational Administration

- CEP 933 Quantitative Methods in Educational Research II 3
- A 900-level course in advanced qualitative methods approved by the student's guidance committee.
- c. A research practicum to be taken after the student has completed the courses referenced in items 1.a. and 1.b. above:
 - EAD 995 Research Practicum in Educational Administration 1 to 3
- 2. *K-12 Educational Administration:*
 - a. The following course:
 - EAD 894 Laboratory and Field Experiences 3
 - b. At least 12 credits in other K-12 educational administration courses approved by the student's guidance committee.
- 3. *Courses in a Single Discipline or Thematic Area:* At least 9 credits in a single discipline outside the College of Education, or in a thematic area within the College of Education other than K-12 educational administration. Both the discipline or thematic area and the related courses must be approved by the student's guidance committee.

STUDENT AFFAIRS ADMINISTRATION

Master of Arts

The master's degree program in student affairs administration is designed for persons who plan to be employed in this field within institutions of higher education. The program is designed to enable students to achieve an understanding of educational administration, higher education, and student affairs administration. Course work in the major integrates theory and practice. Courses can be chosen to reflect a student's interest in administration and leadership, teaching and learning, or adult development, and to build skills in academic advisement, training and development, communications, or counseling.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applicants must submit a written statement of their volunteer experiences and interests that are related to the field of student affairs administration. The three required letters of recommendation must be from persons who are acquainted with the applicant's (1) academic and employment performance and (2) potential for graduate work and professional administration in higher education. Applicants must be available for an interview.

Requirements for the Master of Arts Degree in Student Affairs Administration

The program is available only under Plan B (without thesis). The student must complete 40 credits distributed as follows:

- | | |
|---|--------|
| 1. All of the following courses: | 25 |
| CEP 822 Approaches to Educational Research | 3 |
| EAD 800 Organization Theory in Education | 3 |
| EAD 870 Foundations of Postsecondary Education | 3 |
| EAD 871B Collegiate Contexts for Teaching and Learning | 3 |
| EAD 873 The College Student Experience | 3 |
| EAD 874A Student Affairs in Collegiate Settings I | 3 |
| EAD 874B Student Affairs in Collegiate Settings II | 3 |
| EAD 894A Practicum in Student Affairs | 4 |
| 2. Two or three of the following courses: | 6 to 9 |
| EAD 801 Leadership and Organizational Development | 3 |
| EAD 802 Staff and Professional Development | 3 |
| EAD 803 Planning, Budgeting, and Evaluation | 3 |
| EAD 860 The Concept of the Learning Society | 3 |
| EAD 862B Adult Career Development | 3 |
| EAD 872 Legal Issues in Higher Education | 3 |
| 3. Two or three additional courses in such areas as academic advisement, training and development, communications, and counseling approved by the student's academic adviser. | 6 to 9 |

DEPARTMENT of KINESIOLOGY

Deborah L. Feltz, Chairperson

UNDERGRADUATE PROGRAM

The department offers a Bachelor of Science degree program with a major in kinesiology. The relationships between physical activity in human beings and various sciences are emphasized. Students will gain an understanding of the development, interpretation, application, and dissemination of knowledge that relates physical activity to human well-being. The major in kinesiology places emphasis on the attainment of disciplinary knowledge in the anatomical, biomechanical, developmental, physiological, and sociological aspects of physical activity, explores how physical activity relates to human well-being, and offers a choice of an area of emphasis in physical education or in exercise science. Students who select the physical education area of emphasis and who intend to pursue teacher certification should see TEACHER CERTIFICATION OPTIONS in the *Department of Kinesiology* section of this catalog.

The bachelor's degree program is designed to prepare students to enter a variety of fields associated with sport, exercise science, education, and allied health services. Students who graduate from this program often enter a teacher certification program, professional exercise science programs, or graduate studies in kinesiology.

Requirements for the Bachelor of Science Degree in Kinesiology

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Kinesiology.

Students who are enrolled in the Kinesiology major leading to the Bachelor of Science degree in the Department of Kinesiology may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Chemistry 141 and 161, Physics 231 and 251, and Physiology 250. The completion of Chemistry 161, Physics 251, and Physiology 250 satisfies the laboratory requirement. Chemistry 141 and 161, Physics 231 and 251, and Physiology 250 may be counted toward both the alternative track and the requirements for the major referenced in item 2.a. below.

The University's Tier II writing requirement for the Kinesiology major is met by completing Kinesiology 445. That course is referenced in item 2.a. below.

CREDITS

2. The following requirements for the major:
 - a. All of the following courses with a minimum grade-point average of 2.00 30

KIN 121 The Healthy Lifestyle	3
KIN 125 First Aid and Personal Safety	3
KIN 170 Foundations of Kinesiology	2
KIN 216 Applied Human Anatomy	3
KIN 217 Applied Human Anatomy Laboratory	1
KIN 260 Physical Growth and Motor Behavior	3
KIN 310 Physiological Bases of Physical Activity	3
KIN 330 Structural and Mechanical Analysis of Physical Activity	3
KIN 340 Psychological Bases of Physical Activity	3
KIN 445 Sociocultural Analysis of Physical Activity (W)	3
KIN 465 Adapted Physical Activity	3
 - b. *All of the following courses:* 13

CEM 141 General Chemistry	4
CEM 161 Chemistry Laboratory I	1
PHY 231 Introductory Physics I	3
PHY 251 Introductory Physics Laboratory I	3
PSL 250 Introductory Physiology	4
 - c. *One of the following two areas of emphasis:* 25 to 30

Physical Education

The physical education area of emphasis is designed for those who plan to teach. Prior to enrollment, specific course selections must be approved by the student's adviser.

 1. *All of the following courses:* 3

KIN 101	Aquatics	1
KIN 103	Conditioning	1
KIN 108	Team Sports	1
One of the following courses:		1
KIN 104	Dance	1
KIN 105	Gymnastics	1
One of the following courses:		1
KIN 106	Individual Sports	1
KIN 107	Racquet Sports	1
2.	Both of the following courses:	4
KIN 350	Techniques of Teaching I	2
KIN 351	Techniques of Teaching II	2
3.	Teacher Certification	21
Please refer to the statement on TEACHER CERTIFICATION OPTIONS in the Department of Kinesiology section of this catalog.		
All of the following courses:		
CEP 240	Diverse Learners in Multicultural Perspective	3
TE 150	Reflections on Learning	3
TE 301	Learners and Learning in Context(W)	4
TE 401	Teaching of Subject Matter to Diverse Learners (W)	5
TE 402	Crafting Teaching Practice(W)	6

Exercise Science

The exercise science area of emphasis is designed for those who plan to work in the fields of fitness leadership, cardiac rehabilitation, pre-physical therapy, pre-medical training, athletic administration, adapted physical activity or in related fields. Prior to enrollment, specific course selections must be approved by the student's adviser.

1.	All of the following courses:	10
KIN 250	Measurement in Kinesiology	3
KIN 370	Proseminar in Kinesiology	2
KIN 411	Laboratory Experiences in Exercise Physiology	2
KIN 450	Design and Evaluation of Physical Activity Programs	3
2.	Completion of an approved cognate in kinesiology (a minimum of 12 credits)	12
3.	Internship. The internship experience must be approved by the KIN Internship Coordinator (a minimum of 3 credits)	3
KIN 493	Internship	3

SPECIALIZATION IN ATHLETIC TRAINING

The Specialization in Athletic Training, administered by the Department of Kinesiology, is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University. The specialization provides students with the knowledge and skills they will need to recognize, evaluate, treat, rehabilitate, and manage athletic injuries. Students will gain practical experience in the evaluation, treatment, and rehabilitation of athletic injuries through a variety of clinical rotations. They will have opportunities to attain knowledge and skills essential to the organization and administration of athletic training programs. Students who complete this specialization will be eligible to sit for the National Athletic Trainer's Association (NATA) Certification Examination.

With the approval of the department and the college that administer the student's degree program, the courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Specialization in Athletic Training

CREDITS

1.	The student must complete the following (24 credits):	
a.	All of the following courses (a minimum of 19 credits):	
KIN 320	Pathology of Sports Injury	3
KIN 421	Lower Body Injury Evaluation	3
KIN 422	Rehabilitation of Athletic Injuries	3
KIN 423	Therapeutic Modalities	3
KIN 425	Organization and Administration of Athletic Training	3
KIN 426	Upper Body Injury Evaluation	3
KIN 427	Clinical Rotations in Athletic Training	1 to 6
b.	One of the following courses (3 credits):	
KIN 120	Personal Health	3
KIN 121	The Healthy Lifestyle	3

c.	Electives (a minimum of 2 credits):	
CEP 261	Substance Abuse	3
HNF 150	Introduction to Nutrition and Food Science	3
KIN 482C	Ethical Issues in Athletics	2
KIN 490	Independent Study	3
PHM 430	Drug Abuse	3
PSY 320	Health Psychology	3

Upon completion of the requirements for the Specialization in Athletic Training, the student should contact the undergraduate adviser for athletic training and request certification for the completion of the specialization. After the certification is approved by the Chairperson of the Department of Kinesiology and the Dean of the College of Education, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This information will appear on the student's transcript.

SPECIALIZATION IN COACHING

The specialization in coaching is designed to provide students with knowledge, skills, and experiences that will enable them to coach effectively and safely in school, community-youth, and adult sports programs. Students who complete the specialization will be eligible to take the examination for certification as a Program for Athletic Coaches' Education (PACE) Coach.¹ The Department of Kinesiology administers the specialization.

The educational objectives of the specialization in coaching are for students to acquire:

1. Knowledge and understanding of the growth and development of athletes.
2. Knowledge and understanding of the medical, legal, psychological, social, biological, physical, theoretical, and technical aspects of coaching.
3. Practical experience in coaching.

With the approval of the department and college that administer the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Specialization in Coaching

CREDITS

The student must complete:		
1.	All of the following courses (19 credits):	
KIN 125	First Aid and Personal Safety	3
KIN 260	Physical Growth and Motor Behavior	3
KIN 340	Psychological Bases of Physical Activity	3
KIN 400	Principles of Coaching I	4
KIN 401	Principles of Coaching II	4
KIN 494	Fieldwork ¹	2
2.	One of the following courses (2 credits):	
KIN 300A	Coaching Baseball	2
KIN 300B	Coaching Sports for Athletes with Disabilities	2
KIN 300C	Coaching Soccer	2
KIN 300D	Coaching Basketball	2
KIN 300E	Coaching Football	2
KIN 300K	Coaching Track and Field	2
KIN 490	Independent Study ²	2

¹ The Program for Athletic Coaches' Education is administered jointly by MSU's Institute for the Study of Youth Sports and the Michigan High School Athletic Association.

² To be counted toward the requirements for the specialization in coaching, the content of this course must focus on coaching. An academic adviser in the Department of Kinesiology must approve in writing the content of this course before the student enrolls in the course.

Upon completion of the requirements for the specialization in coaching, the student should contact the Chairperson of the Department of Kinesiology and request certification for the completion of the specialization. After the certification is approved by the chairperson of the department and the Dean of the College of Education, the Office of the Registrar will enter on the student's academic record the name of the specializa-

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tion and the date that it was completed. This certification will appear on the student's transcript.

SPECIALIZATION IN HEALTH PROMOTION

The specialization in health promotion is designed to assist students in understanding health issues that will serve as a basis for personal and professional growth and positive lifestyle changes. The specialization, which is multidisciplinary, is administered by the Department of Kinesiology.

With the approval of the department and college that administer the student's degree program, courses that are used to satisfy the requirements for the specialization may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Specialization in Health Promotion

CREDITS

The student must complete:

- Both of the following courses (6 credits):
 - HNF 150 Introduction to Nutrition and Food Science 3
 - PSY 325 Affect and Self-Esteem 3
- One of the following courses (3 credits):
 - KIN 120 Personal Health 3
 - KIN 121 The Healthy Lifestyle 3
- At least 9 credits from the following courses:
 - Social/Cultural**
 - ANP 270 Women and Health: Anthropological and International Perspectives 3
 - ANP 370 Culture, Health, and Illness 3
 - FCE 225 Ecology of Family and Human Development 3
 - FSC 421 Food Laws and Regulations 3
 - GEO 435 Geography of Health and Disease 3
 - HNF 375 Community Nutrition 3
 - HNF 406 Sociocultural Aspects of Food 3
 - ISS 210 Society and the Individual (D)¹ 4
 - PHL 344 Ethical Issues in Health Care 4
 - PRM 260 World Food, Population and Poverty 3
 - SOC 241 Social Psychology 3
 - SW 471 Child Welfare 3
 - SW 472 Social Work in Health Care 3
 - SW 474 Substance Abuse and the Human Services 3
 - Biological**
 - BS 110 Organisms and Populations 4
 - FSC 211 Principles of Food Science 3
 - ISB 206H Human Biology and Society¹ 3
 - MIC 101 Preview of Microbiology 1
 - MIC 205 Allied Health Microbiology 3
 - MIC 206 Allied Health Microbiology Laboratory 1
 - PHM 430 Drug Abuse 3
 - Lifestyle**
 - CEP 260 Dynamics of Personal Adjustment 3
 - CEP 261 Substance Abuse 3
 - FCE 145 The Individual, Marriage and the Family 3
 - FCE 414 Parenting 3
 - FCE 444 Interpersonal Relationships in the Family 3
 - FCE 445 Human Sexuality 3
 - KIN 101 Aquatics 1
 - KIN 103 Conditioning 1
 - KIN 125 First Aid and Personal Safety 3
 - PSY 320 Health Psychology 3

¹ Only one of the following two courses may be used to satisfy the requirements for the specialization in health promotion: Integrative Studies in Biological Science 206H; Integrative Studies in Social, Behavioral, and Economic Sciences 210. That course may also be used to satisfy University requirements.

Upon completion of the requirements for the specialization in health promotion, the student should contact the Chairperson of the Department of Kinesiology and request certification for the completion of the specialization. After the certification is approved by the chairperson of the department and the Dean of the College of Education, the Office of the Registrar will enter on the student's academic record the name of the specialization and the date that it was completed. This certification will appear on the student's transcript.

TEACHER CERTIFICATION OPTIONS

The disciplinary major in kinesiology leading to the Bachelor of Science degree is available for teacher certification.

A health education disciplinary minor is also available for teacher certification.

Students who elect the kinesiology disciplinary major or the health education disciplinary minor must contact the Department of Kinesiology.

For additional information, refer to the statement on TEACHER CERTIFICATION in the Department of Teacher Education section of this catalog.

GRADUATE STUDY

The department offers programs in kinesiology leading to the Master of Science and Doctor of Philosophy degrees. The department also offers a program in kinesiology–urban studies leading to the Master of Science degree.

Students who are enrolled in Master of Science and Doctor of Philosophy degree programs in the Department of Kinesiology may elect specializations in infant studies. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infant Studies* in the *College of Social Science* section of this catalog.

KINESIOLOGY

Graduate study in kinesiology provides opportunities for students to specialize in areas leading to the Master of Science and Doctor of Philosophy degrees. The programs are designed to prepare individuals for professional positions as educators, researchers, and consultants knowledgeable in physical and behavioral growth and development, fitness, and motor performance. Collaborative course work, laboratory and field experiences, clinical placements, and research are available with other departments and schools both at Michigan State University and at other universities, as well as with various community agencies.

Master of Science

The primary objective of the master's degree program in kinesiology is to help students to acquire a breadth of knowledge grounded in theory, to gain expertise in one or more areas of specialization, and to develop competence in methods of inquiry. The program follows the guidelines that were adopted by the National Association for Sport and Physical Education (NASPE).

A range of relevant courses and experiences can be incorporated into the student's program to satisfy individual needs and interests.

Six major areas of study within the discipline of kinesiology are available to master's students:

- Athletic Training
- Biomechanics of Physical Activity and Sport
- Motor Behavior: adapted physical education; motor development and learning
- Physiology of Exercise
- Program Design and Evaluation: coaching; intramural and sports administration; curriculum; theory and methods of teaching
- Psychosocial Aspects of Physical Activity and Sport: psychology of physical activity; sociology of physical activity

For each student, one of these six areas of study is designated as the Area of Specialization.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

All application materials are reviewed by an admissions screening committee. Consideration is given to the quality of the student's academic record, undergraduate program, and related experiences. For admission to the master's program on regular status, applicants must possess a grade–point average of 3.00 (on a 4.0 scale) and a bachelor's degree with a major or minor in kinesiology. A student with promise who has a deficiency in subject matter preparation or a grade–point average below 3.00 may be admitted to the master's degree program on provisional status until the deficiency is satisfactorily removed.

Requirements for the Master of Science Degree in Kinesiology

The program is available under both Plan A (with thesis) and Plan B (without thesis). Students must complete 30 credits and meet the requirements specified below:

	CREDITS
Requirements for Plan A and Plan B:	18
1. Both of the following required core courses (6 credits):	
KIN 870 Physical Activity and Well–Being	3
KIN 871 Research Methods in Kinesiology	3
2. Three of the following courses, at least <i>one</i> of which must be in the student's area of specialization (9 credits):	
KIN 421 Advanced Athletic Training	3
KIN 450 Design and Evaluation of Physical Activity Programs	3
KIN 810 Physiology of Physical Activity	3
KIN 830 Biomechanical Analysis of Physical Activity	3
KIN 840 Psychosocial Aspects of Physical Activity	3
KIN 860 Growth and Motor Behavior	3
3. Area of Specialization (3 credits):	
A minimum of one course at the 800–900 level totaling at least 3 credits in <i>one</i> of the six major areas of study referenced above. <i>Both</i> the area of specialization <i>and</i> the related courses must be approved by the student's guidance committee. Courses that are used to satisfy the requirements referenced in item 2. above may <i>not</i> be used to satisfy this requirement.	
Additional Requirements for Plan A:	12
1. Both of the following courses (9 credits):	
One additional research methods course at the 400–900 level approved by the student's guidance committee (3 credits).	
KIN 899 Master's Thesis Research	6
2. Additional credits in courses approved by the student's guidance committee (3 credits).	
Additional Requirements for Plan B:	12
1. Additional credits in courses approved by the student's guidance committee (12 credits). ¹	
2. Final certifying examination.	
Students who complete Kinesiology 893 or 897 are required to pass an <i>oral</i> certifying examination.	
Students who do <i>not</i> complete Kinesiology 893 or 897 are required to pass a <i>written</i> certifying examination.	

¹ One of the following courses is recommended:

KIN 893 Internship in Kinesiology	4 to 6
KIN 897 Project in Kinesiology	4

Doctor of Philosophy

The primary objective of the doctoral degree program in kinesiology is to develop scholars who are competent in teaching, conducting research, and serving in leadership roles in various educational, governmental, public, or private agencies. In addition to developing expertise in an area of specialization, students must be able to interpret and integrate information from related academic disciplines. Individualized programs of study may be developed, taking into consideration students' academic needs and professional goals.

Five major areas of study within the discipline of kinesiology are available to doctoral students:

- Biomechanics of Physical Activity and Sport
- Motor Behavior: adapted physical education; motor development and learning
- Physiology of Exercise
- Program Design and Evaluation: curriculum; theory and methods of teaching
- Psychosocial Aspects of Physical Activity and Sport: psychology of physical activity; sociology of physical activity

For each student, one of these five areas of study is designated as the Area of Specialization, and another of these five areas is designated as the Area of Support.

While enrolled in the doctoral degree program in kinesiology, students are expected to present at least one paper at a professional meeting.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

To be considered for admission into the doctoral program, applicants must have a master's degree and must submit evidence of research competence such as a master's thesis or other acceptable written materials. Normally, an interview with a committee of faculty members is required.

Requirements for the Doctor of Philosophy Degree in Kinesiology

The student must complete a minimum of 60 credits and meet the requirements specified below:

1. <i>Educational Inquiry and Research.</i>	CREDITS
a. The following courses:	
CEP 930 Educational Inquiry	3
CEP 932 Quantitative Methods in Educational Research I	3
b. One of the following courses:	
CEP 933 Quantitative Methods in Educational Research II	3
A 900–level course in advanced qualitative methods approved by the student's guidance committee.	
c. A research practicum approved by the student's guidance committee	1 to 3
2. <i>Area of Specialization.</i>	
A minimum of four courses at the 800–900 level totaling at least 12 credits in <i>one</i> of the five major areas of study referenced above. At least 6 of the 12 credits must be in Kinesiology courses. <i>Both</i> the area <i>and</i> the related courses must be approved by the student's guidance committee. Courses that are used to satisfy the requirements referenced in item 1. above may <i>not</i> be used to satisfy this requirement.	
3. <i>Area of Support.</i>	
A minimum of two courses at the 800–900 level totaling at least 6 credits in <i>one</i> of the five major areas of study referenced above. All of the 6 credits must be in Kinesiology courses. <i>Both</i> the area <i>and</i> the related courses must be approved by the student's guidance committee. Courses that are used to satisfy the requirements referenced in item 1. above may <i>not</i> be used to satisfy this requirement.	
4. <i>Related Studies.</i>	
A cognate that consists of a minimum of three courses at the 400–900 level totaling 9 credits. All 9 of the credits must be in courses outside the Department of Kinesiology and must be related to the student's Area of Specialization. <i>Both</i> the cognate <i>and</i> the related courses must be approved by the student's guidance committee.	
5. <i>Dissertation.</i>	
The dissertation must be in the student's Area of Specialization.	
6. <i>Teaching.</i>	
Competency in teaching the subject matter of the student's Area of Specialization or Area of Support to undergraduate students, as judged by the student's guidance committee. This requirement may be met as part of a graduate teaching assistantship assignment.	

KINESIOLOGY–URBAN STUDIES

Master of Science

The Department of Kinesiology offers an interdepartmental Master of Science degree program in kinesiology–urban studies. A minimum of 36 credits is required for the degree, and both Plan A (with thesis) and Plan B (without thesis) are available.

To be admitted to the major in kinesiology–urban studies, students must meet the requirements for admission to the Master of Science degree program with a major in kinesiology. They must also meet the requirements for admission as specified in the statement on *Interdepartmental Graduate Programs in Urban Studies* in the *Graduate Education* section of this catalog.

Students who are admitted to the major in kinesiology–urban studies must meet the requirements for the major in kinesiology leading to the Master of Science degree. They must also meet the requirements for the urban studies component of the program as specified in the statement on *Interdepartmental Graduate Programs in Urban Studies*.

For students on Plan A, the completion of a quantitative social research methods course, which is required for the urban studies component, also satisfies the requirement of one additional research methods course in the kinesiology component.

DEPARTMENT of
TEACHER EDUCATION

Stephen M. Koziol, Chairperson

UNDERGRADUATE PROGRAM

The Department of Teacher Education offers a Bachelor of Arts degree program with a major in education. This program is a *preprofessional* program that is designed as an option for students who plan to teach in *elementary* schools and who wish to complete *two disciplinary minors*, rather than a *single disciplinary major*. Students in the program work toward certification as elementary teachers. Upon satisfactory completion of the requirements for the Bachelor of Arts degree with a major in education, the bachelor's degree is granted. However, in order for Michigan State University to recommend a person for a teaching certificate, that person must also complete the requirements for the Teacher Certification Internship Year Studies program described under the heading *TEACHER CERTIFICATION* below.

Students who plan to teach in *elementary* schools and who wish to complete a *single disciplinary major*, rather than two disciplinary minors, and students who plan to teach in *secondary schools*, should refer to the statement on *TEACHER CERTIFICATION* below.

Requirements for the Bachelor of Arts Degree
in Education

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Arts degree in education.
The completion of Mathematics 201 referenced in item 2.c. below may also satisfy the University mathematics requirement.

The University's Tier II writing requirement for the Education major is met by completing Teacher Education 301, 401, and 402. Those courses are referenced in item 2. a. (1) below.

2. The following requirements for the major:

	CREDITS
a. <i>Professional Education Courses</i> :	21
(1) All of the following courses (18 credits):	
TE 150 Reflections on Learning	3
TE 301 Learners and Learning in Context (W)	4
TE 401 Teaching of Subject Matter to Diverse Learners (W)	5
TE 402 Crafting Teaching Practice (W)	6
(2) One of the following courses (3 credits):	
TE 250 Human Diversity, Power, and Opportunity in Social Institutions	3
CEP 240 Diverse Learners in Multicultural Perspective	3
b. <i>Two approved disciplinary minors for teacher certification</i> , <i>only one of which may be a group minor</i> . For a list of approved minors, refer to the statement on <i>TEACHER CERTIFICATION</i> below.	40 or 44
c. Mathematics courses:	6
(1) Both of the following courses:	
MTH 201 Mathematical Investigations I	3
MTH 202 Mathematical Investigations II	3
<i>NOTE: The completion of Mathematics 201 may also satisfy the University mathematics require- ment. Students who elect the mathematics dis- ciplinary minor are not required to complete Mathematics 201 and 202.</i>	
d. Complementary Studies:	
(1) One of the following two options:	
Option A For students with both disciplinary minors outside the College of Agriculture and Natural Resources and College of Natural Science: A total of 20 credits in courses in the following subject matter areas: biological science, botany, chemistry, computer science, fisheries and wildlife, for- estry, geological sciences, human nutrition and foods (Hu- man Nutrition and Foods 150 only), mathematics, physics, physiology, resource development, integrative studies in biological science, integrative studies in physi- cal science, and Transcollegiate Courses involving related disciplines. Credits in courses that are used to satisfy University requirements [referenced in item 1. above] and credits in courses that are used to satisfy the Mathe- matics requirement referenced in item 2.c. above may be used to satisfy this requirement. Credits in courses that are used to satisfy the requirements for a disciplinary mi- nor for teacher certification may <i>not</i> be used to satisfy this requirement.	
Option B For students with one or both disciplinary minors within the College of Agriculture and Natural Resources and College of Natural Science: A total of 20 credits in courses in the following subject matter areas: anthropology; eco- nomics; geography; history; political science; psychology; sociology; integrative studies in arts and humanities; in- tegrative studies in social, behavioral, and economic sci- ences; and Transcollegiate Courses involving related disciplines. Credits in courses that are used to satisfy University requirements [referenced in item 1. above] may be used to satisfy this requirement. Credits in courses that are used to satisfy the requirements for a dis- ciplinary minor for teacher certification may <i>not</i> be used to satisfy this requirement.	

TEACHER CERTIFICATION

ADMISSION TO THE TEACHER CERTIFICATION
PROGRAM

The number of students admitted to the teacher certification program at the junior level or above is established by the University. Enrollment in the program is limited. The criteria and procedures for the selection of students for admission to the teacher certification program are established by the College of Education.

The form for applying for admission to the teacher certification program and information about the admission process are

available in the Office of Student Affairs, College of Education.

Students who are enrolled in undergraduate degree programs at Michigan State University generally apply for entry into the program during the first semester of their sophomore year.

To be eligible for consideration for admission to the teacher certification program, the student must have:

1. enrolled in, or have applied for admission to, a disciplinary major that is available for teacher certification.
2. completed at least 28 credits with a cumulative grade-point average of 2.50 or higher.
3. completed any required remedial–developmental–preparatory courses.
4. passed all portions of the Michigan Test for Teacher Certification (MTTC) Basic Skills Test.
5. submitted a completed application form to the Office of Student Affairs, College of Education. *NOTE:* Applications are accepted *once* each year during the fall semester. Students who will have completed 56 or more credits by the end of the following summer session may apply for admission to the teacher certification program.
6. the approval of the MSU Student Health Service and Office of the Vice President for Student Affairs and Services as a teacher candidate.

To be eligible for consideration for admission to the teacher certification program with a disciplinary major in special education, the student must also have completed one or two supervised pre-admission experiences totaling at least 42 hours in one of the following areas of emphasis (visual impairment, deaf education, emotional impairment, or learning disabilities). The area of emphasis should be the one that the student will select to meet the requirements for the bachelor's degree. Prospective special education students are strongly encouraged to talk with faculty in special education about the potential value of sites for securing the required experience. A list of various possible sites in Michigan is posted on the web, and is linked from the MSU Teacher Education home page. Prospective applicants to the special education program must submit a form verifying completion of the experience with the completed application. Although applicants to the special education major will not be ranked by their performance in the experience, only students who have completed the required experience will be considered for admission.

Persons Selected for Admission

Persons are selected for admission on the basis of criteria that include consideration of cumulative grade-point average, written communication skills, and experience that is relevant to teacher certification.

To be admitted to the teacher certification program, a student must have completed at least 56 credits with a cumulative grade-point average of 2.50 or higher.

Persons who hold bachelor's degrees from Michigan State University and other recognized educational institutions:

To be eligible for consideration for admission to the teacher certification program, the person must have submitted a completed application form to the Office of Student Affairs, College of Education. Applications are accepted twice a year, in the fall and spring semesters. Contact the Office of Student Affairs, College of Education, for specific deadlines. Admission to the program is competitive. The number of students admitted each year varies by certification area.

REQUIREMENTS FOR TEACHER CERTIFICATION

Disciplinary Course Requirements and Pedagogy Course Requirements

For some disciplines, disciplinary courses *in addition to, or in lieu of*, the courses that are required for the bachelor's degree in the disciplinary major are required for teacher certification.

Furthermore, for some disciplines, pedagogy courses *in addition to, or in lieu of*, the following courses are required for teacher certification: Teacher Education 150, 301, 401, 402, 501, 502, 801, 802, 803, and 804; Teacher Education 250 or Counseling, Educational Psychology and Special Education 240.

For additional information concerning disciplinary course requirements and pedagogy course requirements, refer to the statements on teacher certification options in the catalog statements for the colleges, departments, and schools that administer disciplinary majors that are available for teacher certification.

General–Liberal Education Requirements

The State of Michigan requires applicants for provisional certification to have completed at least 40 semester credits in a program of "general or liberal education," which is designed to ensure that teachers understand the "substance, concepts, and methods of the principal areas of human knowledge, and skills essential to communication and inquiry in modern society." The courses used to fulfill the University's Integrative Studies and Tier I writing requirements will count for 30 of the 40 credits required in general-liberal education.

Observation and Field Experience Requirements

Included in the requirements for teacher certification are courses that involve observations and field experiences in schools. Students are responsible for their transportation to and from observations and field experiences. Students are responsible for costs associated with observations and field experiences; e.g., transportation.

Teacher Certification Internship Year Studies Program

Routes of Access to the Internship Year Studies Program

Persons may gain access to the Teacher Certification Internship Year Studies program as follows:

1. **Elementary Teacher Certification:**
 - a. Students who complete the requirements for the bachelor's degree with a major in child development, education, general science-interdepartmental or special education at Michigan State University are thereby qualified to pursue the Internship Year Studies program.
 - b. Michigan State University students who were admitted to the teacher certification program with a disciplinary major other than those referenced in item 1. a. above, who complete the requirements for a bachelor's degree at Michigan State University, and who complete the requirements for teacher certification referenced in items 2. and 3 a. (1) through (4) under the heading *Prerequisites for Admission to the Internship Year Studies Program* below are thereby qualified to pursue the Internship Year Studies program.

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- c. Students who complete the requirements for a bachelor's degree at another educational institution, or who complete the requirements for a bachelor's degree at Michigan State University without having been admitted to the teacher certification program, must meet the requirements referenced in the statement on *Prerequisites for Admission to the Internship Year Studies Program* below in order to be considered for admission to that program.
2. **Secondary Teacher Certification:**
 - a. Michigan State University students who were admitted to the teacher certification program with a disciplinary major other than those referenced in item 1. a. above and those referenced in items 3. a. and b. below, who complete the requirements for a bachelor's degree at Michigan State University, and who complete the requirements for teacher certification referenced in items 2. and 3. b. (1) through (3) under the heading *Prerequisites for Admission to the Internship Year Studies Program* below are thereby qualified to pursue the Internship Year Studies program.
 - b. Students who complete the requirements for a bachelor's degree at another educational institution, or who complete the requirements for a bachelor's degree at Michigan State University without having been admitted to the teacher certification program, must meet the requirements referenced in the statement on *Prerequisites for Admission to the Internship Year Studies Program* below in order to be considered for admission to that program.
3. **Secondary Teacher Certification K-12 Endorsed Subject Areas:**
 - a. Michigan State University students who were admitted to the teacher certification program with an *audiology and speech sciences, instrumental music education, stringed instrument music education, or vocal-general music education* disciplinary major and who complete the requirements for teacher certification referenced in items 2. and 3. b. (1) through (3) in the statement on *Prerequisites for Admission to the Internship Studies Program* below are thereby qualified to pursue the Internship Year Studies Program.
 - b. Michigan State University students who were admitted to the teacher certification program with an *art education, home economics, or kinesiology disciplinary major*, who complete the requirements for a bachelor's degree from Michigan State University, and who complete the requirements for teacher certification referenced in items 2. and 3. b. (1) through (3) in the statement on *Prerequisites for Admission to the Internship Studies Program* below are thereby qualified to pursue the Internship Year Studies Program.
 - c. Michigan State University students who were admitted to the teacher certification program with a disciplinary major other than those referenced in items 2.a. and b. above, who complete the requirements for a bachelor's degree at Michigan State University, and who complete the requirements for teacher certification referenced in items 2. and 3 b. (1) through (3) under the heading *Prerequisites for Admission to the Internship Year Studies Program* below are thereby qualified to pursue the Internship Year Studies program.
 - d. Students who complete the requirements for a bachelor's degree at another educational institution, or

who complete the requirements for a bachelor's degree at Michigan State University without having been admitted to the teacher certification program, must meet the requirements referenced in the statement on *Prerequisites for Admission to the Internship Year Studies Program* below in order to be considered for admission to that program.

¹ Refer to footnote 1 under the heading *Prerequisites for Admission to the Internship Year Studies Program* below.

Prerequisites for Admission to the Internship Year Studies Program

All students seeking admission to the Internship Year Studies Program must have:

1. A baccalaureate degree from a recognized educational institution with a cumulative grade-point average of at least 2.50.
2. Passed all portions of the Michigan Test for Teacher Certification (MTTC) Basic Skills Test and completed the State of Michigan Department of Education's technology requirement.
3. Completed the requirements for elementary teacher certification or for secondary teacher certification listed below:
 - a. **Requirements for Elementary Teacher Certification:**¹
 - (1) The *Professional Education Courses* referenced in item 2.a. under the heading *Requirements for the Bachelor of Arts Degree in Education* above.^{2,3}
 - (2) One of the following two options:
 - Option A**
The requirements for an approved *single disciplinary major* for teacher certification with a grade-point average of at least 2.50. The approved disciplinary majors are listed below.
 - Option B**
The requirements for *two* approved *disciplinary minors* for teacher certification with a grade-point average of at least 2.50. The approved disciplinary minors are listed below.
 - (3) The *Mathematics courses* referenced in item 2. c. under the heading *Requirements for the Bachelor of Arts Degree in Education* above.
NOTE: The completion of Mathematics 201 may also satisfy the University mathematics requirement. Students who elect a mathematics disciplinary major or the mathematics disciplinary minor are *not* required to complete Mathematics 201 and 202.
 - (4) *Complementary Studies:*
One of the following two options:
 - Option A**
For students with a disciplinary major, or with both disciplinary minors, for teacher certification outside the College of Agriculture and Natural Resources and College of Natural Science: A total of 20 credits in courses in the following subject matter areas: biological science, botany, chemistry, computer science, fisheries and wildlife, forestry, geological sciences, human nutrition and foods (Human Nutrition and Foods 150 only), mathematics, physics, physiology, resource development, integrative studies in biological science, integrative studies in physical science, and Transcollegiate Courses involving

related disciplines. Credits in courses that are used to satisfy University and College requirements and credits in courses that are used to satisfy the Mathematics requirement referenced above may be used to satisfy this requirement. Credits in courses that are used to satisfy the requirements for a disciplinary major or a disciplinary minor for teacher certification may *not* be used to satisfy this requirement.

Option B

For students with a disciplinary major, or with one or both disciplinary minors, for teacher certification within the College of Agriculture and Natural Resources and College of Natural Science: A total of 20 credits in courses in the following subject matter areas: anthropology; economics; geography; history; political science; psychology; sociology; integrative studies in arts and humanities; integrative studies in social, behavioral, and economic sciences; and Transcollegiate Courses involving related disciplines. Credits in courses that are used to satisfy University and College requirements may be used to satisfy this requirement. Credits in courses that are used to satisfy the requirements for a disciplinary major or a disciplinary minor for teacher certification may *not* be used to satisfy this requirement.

b. Requirements for Secondary Teacher Certification:

- (1) The *Professional Education Courses* referenced in item 2. a. under the heading *Requirements for the Bachelor of Arts Degree in Education* above.^{4,5,6}
 - (2) The requirements for an approved *single disciplinary major* for teacher certification with a grade-point average of at least 2.50. The approved disciplinary majors are listed below.
 - (3) The requirements for an approved *disciplinary minor* for teacher certification with a grade-point average of at least 2.50. The approved disciplinary minors are listed below.⁶
4. Earned a grade point average of 2.5 or above for pre-internship professional education courses required for teacher certification with no individual grade below 2.0.
 5. Completed any disciplinary courses and pedagogy courses that are required *in addition to* the courses that are required for the disciplinary major and the courses that are referenced in item 3.a.(1) or 3.b.(1) above.⁷
 6. Passed the required State of Michigan certification tests for elementary teaching or the appropriate major and minor subject area tests for secondary teaching;
 7. Submitted a complete criminal disclosure form; and
 8. Meet professional criteria as specified by the College of Education.
 9. Approval of the MSU Student Health Service and Office of the Vice President for Student Affairs and Services as a teacher candidate.

¹ Students who plan to direct preschool programs must, and students who plan to teach children under five years of age should, meet the requirements for the Bachelor of Science degree with a major in Child Development and meet the requirements referenced in items 3.a.(1) through (4) below in order to be considered for admission to the Internship Year Studies program. Students who plan to teach in kindergartens or in early elementary grades may gain access to the Internship-Year Studies program via any one of the three alternatives referenced in item 1. under the heading *Routes of Access to the Internship Year Studies Program* above.

² Students with a disciplinary major in Child Development may substitute Family and Child Ecology 225 and 442 for Teacher Education 250 or Counseling, Educational Psychology and Special Education 240.

³ Students with a disciplinary major in special education are required to complete Counseling, Educational Psychology and Special Education 240.

⁴ The pedagogy courses that are required for students with a disciplinary major in audiology and speech sciences are specified in the statement on *TEACHER CERTIFICATION OPTION* in the *Department of Audiology and Speech Sciences* section of this catalog. Students with a disciplinary major in audiology and speech sciences must complete Teacher Education 150, 301, and 842; Counseling, Educational Psychology and Special Education 240; and Audiology and Speech Sciences 483 to be considered for admission to the Internship Year Studies program.

⁵ The pedagogy courses that are required for students with disciplinary majors in *instrumental music education, stringed instrument music education, and vocal-general music education* are specified in the statement on *TEACHER CERTIFICATION OPTIONS* in the School of Music section of this catalog. Students with disciplinary majors in instrumental music education, stringed instrument music education, and vocal-general music education must complete Teacher Education 250 or Counseling, Educational Psychology and Special Education 240, Teacher Education 301, and Music 260 to be considered for admission to the Internship-Studies program.

⁶ Students with a disciplinary major in art education must complete Studio Art 481 and 482 in lieu of Teacher Education 401 and 402. Students with a disciplinary major in art education must complete the requirements for the visual arts disciplinary minor.

⁷ Any additional disciplinary courses and any additional pedagogy courses that are required for teacher certification are referenced in the statements on teacher certification options in the catalog statements for the colleges, departments, and schools that administer the disciplinary majors that are available for teacher certification.

Admission to the Internship Year Studies Program

The statement on admission to the Internship Year Studies program pertains to all students who complete the requirements for a bachelor's degree at another educational institution, or who complete the requirements for a bachelor's degree at Michigan State University without having been admitted to the teacher certification program.

The number of students admitted to the Internship Year Studies program is established by the University. Enrollment in the program is limited. The criteria and procedures for the selection of students for admission to the Internship Year Studies program are established by the College of Education.

Requirements for the Internship Year Studies Program

1. All of the following Professional Education Courses:	24
TE 501 Internship in Teaching Diverse Learners I ¹	6
TE 502 Internship in Teaching Diverse Learners II ^{1,2,3}	6
TE 801 Professional Roles and Teaching Practice I ^{1,2,3}	3
TE 802 Reflection and Inquiry in Teaching Practice I ^{1,2,3}	3
TE 803 Professional Roles and Teaching Practice II ^{1,2,3}	3
TE 804 Reflection and Inquiry in Teaching Practice II ^{1,2,3}	3
2. Meet all professional standards for the internship year as specified by the College of Education.	

¹ Students with instrumental music education, stringed instrument music education, and vocal-general music education disciplinary majors must complete approved alternative courses in lieu of Teacher Education 501, 502, 801, 802, 803, and 804.

² Students who fulfill all of the requirements for a Master of Arts degree with a major in audiology and speech sciences will have completed the courses that are required in lieu of Teacher Education 502, 801, 802, 803, and 804.

³ Students with a special education disciplinary major who are seeking both teacher certification and endorsement in *deaf education* must complete Counseling, Educational Psychology and Special Education 502C, 801A, 802C, 803C, and 804C in lieu of Teacher Education 502, 801, 802, 803, and 804. Those courses contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of deaf education. Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *deaf education* must complete Counseling, Educational Psychology and Special Education 502C, 801A, 802C, 803C, and 804C.

Students with a special education disciplinary major who are seeking both teacher certification and endorsement in *emotional impairment* must complete Counseling, Educational Psychology and Special Education 502B, 801A, 802A, 803A, and 804A in lieu of Teacher Education 502, 801, 802, 803, and 804. Those courses contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of emotional impairment. Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *emotional impairment* must complete Counseling, Educational Psychology and Special Education 502B, 801A, 802A, 803A, and 804A.

Students with a special education disciplinary major who are seeking both teacher certification and endorsement in *learning disabilities* must complete Counseling, Educational Psychology and Special Education 502A, 801A, 802A, 803A, and 804A in lieu of Teacher Education 502, 801, 802, 803, and 804. Those courses contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of *learning disabilities*. Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *learning disabilities* must complete Counseling, Educational Psychology and Special Education 502A, 801A, 802A, 803A, and 804A.

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Students with a special education disciplinary major who are seeking both teacher certification and endorsement in *visual impairment* must complete Counseling, Educational Psychology and Special Education 502D, 801A, 802D, 803D, and 804D *in lieu of* Teacher Education 502, 801, 802, 803, and 804. Those courses contain disciplinary content, as well as pedagogical content. Therefore, those courses are also counted toward the requirements for endorsement in the area of emotional impairment. Students who completed Teacher Education 502, 801, 802, 803, and 804 and who are seeking endorsement in *visual impairment* must complete Counseling, Educational Psychology and Special Education 502D, 801A, 802D, 803D, and 804D.

Internship Placements

Students seeking teacher certification are required to complete extended internships during the Internship Year Studies program. Although students are given an opportunity to express their preferences concerning possible internship placement sites, the placement of students in internships is the sole responsibility of the College of Education. The College will *not* honor student-arranged internship placements.

Each student's subject areas, the availability of field instructors, the voluntary willingness of schools to accept interns and visitors, and the College's commitment to providing service to public schools are considered in internship placement decisions. Given the number of factors that influence internship placement decisions, the College cannot guarantee that placements will be available in the vicinity of East Lansing or in a location that a student prefers.

Students are responsible for their transportation to and from internships. Students are responsible for costs associated with internships; e.g., transportation, or moving to and living in the community in which a student's internship placement is located.

For additional information, students should contact the faculty who are responsible for internship placements.

Relationship of the Internship Year Studies Program to Master's Degree Programs

Students may be admitted to the Internship Year Studies Program without being admitted to a master's degree program. Students who are admitted to both the Internship Year Studies Program and a master's degree program may pursue both programs simultaneously. For students who complete the Internship Year Studies Program, a maximum of 12 credits in 800-level courses that are required for that program may be applied to a master's degree *with the approval of the units that administer the master's degree program*. For additional information about the 800-level courses that are required for the Internship Year Studies Program, refer to the statement on *Requirements for the Internship Year Studies Program*.

MSU DISCIPLINARY MAJORS FOR TEACHER CERTIFICATION

The State of Michigan requires a minimum of 30 semester credits for a single-subject disciplinary major, and a minimum of 36 semester credits for a group subject disciplinary major, for elementary and secondary teacher certification. Therefore, in the event that fewer than the required minimum number of credits are included in the student's disciplinary major, the student must complete additional credits as necessary for teacher certification.

All of the disciplinary majors are undergraduate majors.

All of the disciplinary majors are available for *elementary teacher certification* with the *exception* of the art education, audiology and speech sciences, home economics, instrumental music education, kinesiology, stringed instrument music education, and vocal-general music education majors. Students in the special education major are recommended

only for elementary teacher certification: K-12 endorsed subject area.

All of the disciplinary majors are available for *secondary teacher certification* with the *exception* of the child development, education, general science-interdepartmental and special education majors. Students in the art education, audiology and speech sciences, home economics, instrumental music education, kinesiology, stringed instrument music education, and vocal-general music education majors are recommended *only* for secondary teacher certification: K-12 endorsed subject area.

In the table that follows, the disciplinary majors that are available for teacher certification are identified, along with the colleges that administer them. Via footnotes, the group subject disciplinary majors are identified, and other information is provided.

Some of the disciplinary majors lead to the Bachelor of Arts or the Bachelor of Science degree. Either degree is appropriate for teacher certification. The student should refer to the relevant college statement for additional information about a given major.

MAJOR	COLLEGE
Agriscience ¹	Agriculture and Natural Resources
Art Education ¹	Arts and Letters
Audiology and Speech Sciences	Communication Arts and Sciences
Biological Science–Interdepartmental	Natural Science
Chemistry	Natural Science
Child Development	Human Ecology
Earth Science– Interdepartmental	Natural Science
East Asian Languages and Cultures (Japanese) ²	Arts and Letters
Economics	Business
Education	Education
English	Arts and Letters
French	Arts and Letters
General Science ¹	Natural Science
German	Arts and Letters
History	Arts and Letters
Home Economics ¹	Human Ecology
Interdisciplinary Studies in Social Science ¹	Social Science
International Relations ¹	James Madison College
Journalism	Communication Arts and Sciences
Kinesiology	Education
Latin	Arts and Letters
Mathematics	Natural Science
Music:	
Instrumental Music Education ¹	Arts and Letters
Stringed Instrument Music Education ¹	Arts and Letters
Vocal–General Music Education ¹	Arts and Letters
Physical Science– Interdepartmental ¹	Natural Science
Physics	Natural Science
Political Economy ¹	James Madison College
Political Theory and Constitutional Democracy ¹	James Madison College
Russian	Arts and Letters
Social Relations ¹	James Madison College
Spanish	Arts and Letters
Special Education	Education
Theatre	Arts and Letters

¹ This major is a group subject major.

² The East Asian Languages and Cultures disciplinary major is available for teacher certification in Japanese only.

MSU DISCIPLINARY MINORS FOR TEACHER CERTIFICATION

The State of Michigan requires a minimum of 20 semester credits for a single-subject disciplinary minor, and a minimum of 24 semester credits for a group subject disciplinary minor, for elementary or secondary teacher certification.

In the table that follows, the disciplinary minors that are available for teacher certification are identified, along with the colleges that administer them. Via footnotes, the group

subject disciplinary minors are identified, and other information is provided.

MINOR ¹	COLLEGE
Agriscience ²	Agriculture and Natural Resources
Anthropology	Social Science
Biological Science	Natural Science
Chemistry	Natural Science
Communication	Communication Arts and Sciences
Computer Science	Engineering
Earth Science	Natural Science
Economics	Business
English	Arts and Letters
Environmental Science ²	Agriculture and Natural Resources
French	Arts and Letters
Geography	Social Science
German	Arts and Letters
Health Education	Education
History	Arts and Letters
Italian	Arts and Letters
Japanese	Arts and Letters
Journalism	Communication Arts and Sciences
Latin	Arts and Letters
Mathematics	Natural Science
Music:	
Music Theory and Literature ²	
(for music majors)	Arts and Letters
School Music ²	
(for non-music majors)	Arts and Letters
Physics	Natural Science
Political Science	Social Science
Psychology	Social Science
Religious Studies	Arts and Letters
Russian	Arts and Letters
Sociology	Social Science
Spanish	Arts and Letters
Theatre	Arts and Letters
Visual Arts ^{2,3}	Arts and Letters

¹ A given course may *not* be counted toward both the requirements for a disciplinary major and the requirements for a disciplinary minor, or toward the requirements for two or more disciplinary minors.

² This minor is a group subject minor.

³ This minor is available only to students in the art education major leading to the Bachelor of Fine Arts degree.

REQUIREMENTS FOR THE DISCIPLINARY MINORS LISTED ABOVE

AGRISCIENCE

	CREDITS
BS 110	4
ZOL 250	4
AEE 303	3
FOR 202	3
FW 444	3
Select courses from the following:	
ANS 110	3
CSS 101	3
CSS 210	3
FSC 211	3
HRT 201	3
HRT 201L	1

ANTHROPOLOGY

ANP 201	3
ANP 202	3
One course from the following (methods):	
ANP 320	4
ANP 429	3
Two courses from the following (thematic/theoretical):	
ANP 220	3
ANP 321	3
ANP 340	4
ANP 360	3
ANP 420	3
ANP 421	3
ANP 422	3
ANP 423	3
ANP 424	3
ANP 425	3
ANP 426	3
ANP 427	3
ANP 480	3
Two courses from the following (ethnographic areas):	
ANP 410	3
ANP 411	3
ANP 412	3

ANP 413	3
ANP 414	3
ANP 415	3
ANP 416	3
ANP 417	3

21 to 23

BIOLOGICAL SCIENCE

BS 110	4
BS 111	3
BS 111L	2
ZOL 341	4
ZOL 355	3
PSL 250	4
Or	
BOT 301	3
BCH 200	4
Or	
MIC 301	3

22 to 24

CHEMISTRY

One of the following sequences:

CEM 151	4
and	
CEM 152	3
or	
CEM 141	4
and	
CEM 142	3
Required Courses:	
CEM 161	1
CEM 162	1
CEM 262	2
One of the following sequences:	
CEM 251	3
and	
CEM 252	3
and	
CEM 255	2
or	
CEM 351	3
and	
CEM 352	3
and	
CEM 355	2
One of the following courses:	
CEM 383	3
CEM 384	3
CEM 361	3
CEM 362	3
CEM 461	3

22

COMMUNICATION

COM 100	3
COM 200	4
COM 225	3
COM 240	4
TC 275	3
COM 391	4

21

COMPUTER SCIENCE

All of the following courses (18 semester credits)

CSE 101	3
CSE 230	4
CSE 260	3
CSE 320	4
Language Programming	4
CSE 330	4

One additional 300–400 level course in the Department of Computer Science and Engineering – excluding independent study courses such as CSE 491 – to bring the total to at least 20 credits. All proposed courses in Computer Science and Engineering are 3 or 4 credits, so the teaching minor will be 21 or 22 credits.

CSE 101, CSE 230, CSE 260 and CSE 320 will be available without restriction to students who meet the prerequisites. CSE 330 and the remaining 300–400 level courses will carry restrictions by major which will obstruct the typical student pursuing a teaching minor. The student will need to file a plan for the minor with the Department of Computer Science and Engineering. If the student's overall GPA and technical GPA meet the standards being required of Computer Science majors for admission to upper level studies, then the student's plan will be approved. After the plan is approved the Department of Computer Science and Engineering will provide the override necessary for the two courses in the minor which have restrictions.

¹ Students who pass a waiver examination will not be required to complete Computer Science and Engineering 101.

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EARTH SCIENCE

GLG 201	The Dynamic Earth	4
GLG 303	Oceanography	4
GLG 304	Physical and Biological History of the Earth	4
GLG 401	Plate Tectonics (W)	4
AST 207	The Science of Astronomy	3
GEO 203	Introduction to Meteorology	3
		22

ECONOMICS

EC 201	Introduction to Microeconomics	3
EC 202	Introduction to Macroeconomics	3
and		
EC 301	Intermediate Microeconomics	3
or		
EC 302	Intermediate Macroeconomics	3
Electives from Economics Courses at 300 or 400 level		11
		20

ENGLISH

1.	Both of the following courses:	7
	ENG 210 Introduction to the Study of English	4
	ENG 302 Introduction to English Language Studies	3
2.	One of the following courses:	4
	ENG 310A Literature in English to 1660	4
	ENG 310B Literature in English 1660-1789	4
3.	One of the following courses:	4
	ENG 310C Literature in English 1789-1900	4
	ENG 310D Literature in English since 1900	4
	ENG 310E Literature in English: Modern Media and Culture	4
4.	One of the following courses:	3 or 4
	ENG 108 Children's Literature and Literature for Young Adults	4
	One additional 3- or 4-credit English course at the 300-400 level ¹	
5.	One additional 3- or 4-credit English course at the 400 level ¹	3 or 4
		21 to 23

¹ English 413, 490, and 493 may *not* be used to satisfy this requirement.

ENVIRONMENTAL SCIENCE

BS 110	Organisms and Populations	4
ZOL 250	Ecology	4
RD 201	Environmental and Natural Resources	3
or		
FW 203	Resource Ecology	3
FW 484	Environmental Education	3

Must select at least one course from each of the following categories:

Issues

RD 324	Water Resource Development	3
RD 326	Introduction to Waste Management	3
AEE 303	Issues in Agricultural and Environmental Education Programs	3

Applied Ecological Science

FW 444	Conservation Biology	3
FW 410	Upland Ecosystem Management	4
FW 420	Stream and Aquatic Insect Ecology	3
FW 284	Natural History and Conservation in Michigan	3

Resource Management

FW 205	Principles of Fisheries and Wildlife Management	3
FW 207	Great Lakes: Biology and Management	3
FOR 202	Introduction to Forestry	3
PRR 200	Leisure and Society	3
PRR 302	Environmental Attitudes and Concepts	3
		24 to 26

FRENCH

FRN 320	Grammar and Composition	3
FRN 330	French Phonetics	3
FRN 340	Introduction to Reading French Literature	3
FRN 350	The Contemporary French Scene	3
FRN 410	Survey of French Literature I	3
FRN 420	Survey of French Literature II	3
One of the following:		
FRN 425	Advanced Studies in French Language	3
FRN 430	French Linguistics	3
		21

GEOGRAPHY

GEO 204	World Regional Geography	3
GEO 206	Physical Geography	3
GEO 206L	Physical Geography Laboratory	1
GEO 221	Introduction to Geographic Information	3
GEO 330	Geography of the United States and Canada	3
GEO 333	Geography of Michigan and the Great Lakes Region	3
One of the following courses:		
GEO 113	Introduction to Economics Geography	3
GEO 151	Cultural Geography	3
One additional course in Geography at the 300 or 400 level		3
		22

Students enrolled in the Teaching Minor in Geography must have their programs approved by the department.

GERMAN

GRM 301	Advanced German Language and Culture I	3
GRM 302	Advanced German Language and Culture II	3
GRM 311	Advanced German: Business Emphasis I	3
GRM 312	Advanced German: Business Emphasis II	3
GRM 340	German Life and Literature: Contemporary Period	3
GRM 341	German Life and Literature: Historical Perspectives	3
GRM 420	Language through Media in Contemporary Germany	4
GRM 460	Contrastive Analysis of German and English	3
Methodology		
LL 380	Methods of Teaching Foreign Languages	3
GRM 461	Teaching German Language and Culture	2
		24

HEALTH EDUCATION

The student must complete all of the following courses:

CEP 261	Substance Abuse	3
FCE 445	Human Sexuality	3
HNF 150	Introduction to Nutrition and Food Science	3
KIN 120	Personal Health	3
KIN 420	School Health Education	3
KIN 494	Fieldwork	2
PSY 325	Affect and Self-Esteem	3
		20

HISTORY

The student must complete:

1.	All of the following courses:	11
	HST 201 Historical Methods and Skills	3
	HST 202 U.S. History to 1876	4
	HST 203 U.S. History Since 1876	4
2.	One of the following courses:	3 or 4
	HST 310 African American History to 1876	3
	HST 311 African American History Since 1876	3
	HST 312 African American Women	3
	HST 313 Women in the United States to 1869	4
	HST 314 Women in the United States since 1869	4
	HST 315 American Intellectual History to 1860	3
	HST 316 United States Intellectual History since 1860	3
	HST 318 United States Constitutional History	3
	HST 319 Asian American History	3
	HST 320 History of Michigan	3
	HST 321 History of the American West	3
	HST 322 History of the American South	3
	HST 323 United States Industrial Civilization 1820 to 1929	3
	HST 325 United States Foreign Relations to 1914	3
	HST 326 United States Foreign Relations since 1914	3
	HST 327 History of Mexican Americans in the United States	3
	HST 378 Native Americans in North American History to 1830	3
	HST 379 Native Americans in North American History from 1830	3
	HST 391 Environmental History of North America	3
3.	Two of the following courses:	6 to 8
	HST 150 World History since 1500	4
	HST 336 Contemporary Europe, 1870 to Present	3
	HST 337 European Intellectual History: Natural Philosophy through Romanticism	4
	HST 338 European Intellectual History: Modernism and Post-Modernism	4
	HST 342 Modern East-Central Europe	3
	HST 344 Russia in the Twentieth Century	3
	HST 352 European Economic History	3
	HST 361 African History since 1800	3
	HST 368 China since 1900	3
	HST 370 Japan since 1800	3
	HST 373 The Middle East: The Ottoman Empire	3
	HST 381 National Latin America	3
	HST 383 The Caribbean	3
	HST 390 History of International Relations	3
	HST 393 History of India	4
	HST 410 History of Western Urbanization	3
	HST 412 Women in Modern European History	3
	HST 413 Families in Historical Perspective	3
4.	One of the following courses:	3
	HST 480 Seminar in American History (W)	3
	HST 481 Seminar in Ancient History (W)	3
	HST 482 Seminar in Medieval History (W)	3
	HST 483 Seminar in Modern European History (W)	3
	HST 484 Seminar in African History (W)	3
	HST 485 Seminar in Asian History (W)	3
	HST 486 Seminar in Latin American History (W)	3
	HST 487 Seminar in Comparative History (W)	3
	HST 488 Seminar in International Relations (W)	3
	HST 492H Senior Honors Seminar	3

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¹ The courses that are used to satisfy requirements 2., 3., and 4. must be approved in advance by the Undergraduate Adviser in History. At least one of those courses must focus on an area of the world other than the United States or Western Europe.

ITALIAN

ITL 201	Second-Year Italian I	4
ITL 202	Second-Year Italian II	4
ITL 320	Advanced Grammar and Composition	3
ITL 340	Phonetics and History of the Italian Language	3
ITL 350	Introduction to Italian Literature	3
One of the following:		
ITL 330	Italian Culture and Civilization	3
ITL 360	Topics in Italian Language and Culture	3
		20

JAPANESE

All of the following courses (21 credits):

JPN 201	Second-Year Japanese I	5
JPN 202	Second-Year Japanese II	5
JPN 301	Third-Year Japanese I	4
JPN 302	Third-Year Japanese II	4
LL 380	Methods of Teaching Foreign Languages	3
One of the following courses (3 credits):		
ASN 401	East Asian Cultures (W)	3
ASN 464	Studies in the Literature of Asia and the Asian Diaspora (W)	3
JPN 350	Studies in Japanese Language	3
JPN 401	Fourth-Year Japanese I	3
JPN 402	Fourth-Year Japanese II	3
		24

JOURNALISM

JRN 200	News Writing and Reporting I	4	
JRN 300	News Writing and Reporting II	4	
JRN 430	News and the Law	3	
JRN 409	Topics in Advising Student Publications	3	
Electives approved by the School			6
		21 or 22	

Students are encouraged to choose electives from the following list:

JRN 305	News Editing	3
JRN 306	Broadcast News I	3
JRN 310	Photojournalism I	3
JRN 325	History of Journalism	3
JRN 336	Publication Design I	3
		23

LATIN

LTN 201	Latin Prose	4	
LTN 202	Latin Poetry	4	
LTN 301	Republican Prose and Poetry (W)	3	
LTN 302	Augustan Poetry (W)	3	
LTN elective credits			3
CLA 211	Roman Civilization	3	
HST 331	Ancient Roman History 200 BCE to 500 CE	3	
		23	

MATHEMATICS

MTH 132	Calculus I	3	
MTH 133	Calculus II	4	
MTH 234	Multivariable Calculus I	4	
MTH 310	Abstract Algebra I and Number Theory	3	
MTH 330	Higher Geometry	3	
or			
MTH 432	Axiomatic Geometry	3	
Elective ¹			3
		20	

Mathematics 201 and 202 are waived for students completing this mathematics minor.

¹ The elective must be a mathematics course at the 300–400 level or Statistics and Probability 441. Suggested elective: Mathematics 314, 330, 432, 481 or Statistics and Probability 441.

MUSIC

School Music for non-music majors.

MUS 180	Fundamentals of Music	2	
MUS 181	Musicianship I	3	
MUS 182	Ear Training and Sight Singing I	1	
MUS 183	Ear Training and Sight Singing II	1	
MUS 211	History of Western Music to 1750	3	
MUS 260	Introduction to School Music	2	
MUS 335	Ensemble Conducting I	2	
MUS 339	Teaching School Music	3	
Applied Music Elective			4
Music Education Elective			3
		24	

Music Theory and History or Literature for music majors.

Music Theory	18
Music History or Literature	6
24	

PHYSICS

PHY 183	Physics for Scientists and Engineers I	4
PHY 184	Physics for Scientists and Engineers II	4
PHY 191	Physics Laboratory for Scientists, I	1
PHY 192	Physics Laboratory for Scientists, II	1
PHY 331	Optics I	3
PHY 215	Thermodynamics and Modern Physics	3
PHY 440	Electronics	4
		20

POLITICAL SCIENCE

At least three (3) courses are required from the following list of introductory courses:

PLS 100	Introduction to American National Government	3
PLS 140	Introduction to Comparative Politics	3
PLS 160	Introduction to International Relations	3
PLS 170	Introduction to Political Philosophy	3

The following course is required:

PLS 200	Introduction to Political Science	4
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At least three of the following courses are required:

PLS 301	American State Government	3
PLS 320	The American Judicial Process	3
PLS 321	American Constitutional Law	3
PLS 324	American Legislative Process	3
PLS 325	American Executive Process	3
PLS 331	Political Parties and Interest Groups	3
PLS 351	African Politics	3
PLS 354	Politics of Asia	3
PLS 356	West European Politics	3
PLS 362	Foreign Policy	3
PLS 363	International Political Conflict	3
PLS 364	International Organization and Cooperation	3
PLS 371	Classical Political Philosophy	3
PLS 372	Modern Political Philosophy	3
PLS 377	American Political Thought	3
PLS 201	Introduction to Methods of Political Analysis	4
		22 or 23

PSYCHOLOGY

PSY 101	Introductory Psychology	4
PSY 200	Cognitive Psychology	3
PSY 209	Brain and Behavior	3
PSY 235	Social Psychology	3
PSY 244	Developmental Psychology: Infancy through Childhood	3
PSY 295	Data Analysis in Psychological Research	3
PSY 424	Child and Family Psychopathology	3
or		
PSY 344	Developmental Psychology: Adolescent Through Youth	3
		22

RELIGIOUS STUDIES

REL 310	Judaism	3
REL 411	Modern Jewish Thought	3
REL 320	Christianity	3
REL 330	Islam	3
REL 340	Hinduism	3
REL 440	Topics in South Asian Religions	3
REL 350	Buddhism in South Asia	3
		21

RUSSIAN

RUS 201	Second-Year Russian I	4
RUS 202	Second-Year Russian II	4
RUS 301	Third-Year Russian I	3
RUS 302	Third-Year Russian II	3
RUS 401	Fourth-Year Russian I	3
RUS 402	Fourth-Year Russian II	3
LL 380	Methods of Teaching Foreign Languages	3
		23

SOCIOLOGY

Each of the following:

SOC 100	Introduction to Sociology	4
SOC 241	Social Psychology	3
SOC 313	Education and Society	3
SOC 488	Sociological Theory	3

One of the following:

SOC 215	Race and Ethnicity	3	
SOC 216	Sex and Gender	3	
SOC 330	Social Stratification	3	
Two elective courses at the 300–400 level			6
		22	

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SPANISH

SPN 320	Grammar and Composition	3
SPN 330	Phonetics and Oral Spanish	3
One of the following courses:		
SPN 340	Spanish Culture	3
SPN 345	Spanish American Culture	3
SPN 350	Introduction to Reading Hispanic Literature	3
One of the following sequences:		
SPN 410	Survey of Spanish Literature I	3
and		
SPN 411	Survey of Spanish Literature II	3
SPN 415	Survey of Spanish American Literature I	3
and		
SPN 416	Survey of Spanish American Literature II	3
One of the following:		
SPN 425	Linguistic Grammar	3
SPN 430	Topics in Hispanic Linguistics	3
		21

THEATRE

THR 101	Acting I	3
THR 211	Production Design: Scenery and Lighting	3
THR 212	Production Design: Costumes, Props and Make Up	3
THR 311	Production Practicum	5
THR 341	Beginning Play Directing	3
or		
THR 422	Children's Theatre	3
THR 410	Oral Interpretation	3
or		
THR 421	Creative Dramatics	3
		20

Theatre minors are also strongly urged to enroll in IAH 241D

VISUAL ARTS^{1,2}

This minor is available only to students who: (1) are enrolled in, or have completed the requirements for, MSU's Bachelor of Fine Arts degree program with a major in art education or (2) have completed the equivalent of that program at another recognized educational institution.

		CREDITS
1.	All of the following courses: ²	12
HA 101	Ancient and Medieval Art	4
HA 102	Renaissance through Modern Art	4
HA 104	Asian and African Art	4
2.	One 300–400 level History of Art course approved by the student's academic adviser ³	3 or 4
Eight or 9 credits in 300–400 level Studio Art and History of Art courses approved by the student's academic adviser. ^{2,3}		24

¹ Group subject area.

² Credits earned in courses that are counted toward the requirements for the Bachelor of Fine Arts degree with a major in art education may *not* be counted toward the requirements for the visual arts minor.

³ One of the following courses may be used to satisfy this requirement: Integrative Studies in Arts and Humanities 241A, 241C, 241D, 241E, or 241F. That course may also be used to satisfy the University Integrative Studies in Arts and Humanities requirement.

**TEACHER CERTIFICATION REGULATIONS
 IN THE STATE OF MICHIGAN**

All persons who teach in Michigan must be certified by the State Board of Education. Candidates who complete an approved teacher education program apply for teacher certification and are recommended to the State of Michigan by the University. Holders of the Michigan Elementary Provisional Teaching Certificate are eligible to teach in the State of Michigan grades K–5 all subjects (K–8 Self-Contained Classrooms) and grades 6–8 in subject areas. Holders of the Michigan Secondary Provisional Teaching Certificate are eligible to teach in the State of Michigan grades 7–12 in subject areas and grades K–12 in specified subject areas.

In order for Michigan State University to recommend a person for a teaching certificate, that person must complete the requirements for the teacher certification program including the Internship Year Studies Program.

Ultimately, teachers must fulfill the requirements for the Michigan Professional Education Teaching Certificate listed below. Initially, *Michigan Provisional Teaching Certificates*, elementary or secondary, are recommended by Michigan State

University upon the satisfactory completion of program requirements and are generally valid for six years.

To be qualified to teach at the expiration of the provisional certificate, one must either qualify for a *professional education certificate* or for the renewal of the provisional certificate.

If necessary, a *three-year renewal* of the initial Michigan provisional certificate may be recommended by Michigan State University if the applicant presents evidence that the following requirements have been completed:

- (a) Has been officially admitted to Michigan State University to a degree program on a regular or provisional basis or to a Lifelong Education Teacher Certification program. Independent enrollment in courses through Lifelong Education Programs does not constitute official admission to a teacher certification program.
- (b) Has earned 10 semester credits after the issuance of the provisional certificate in a *planned* course of study approved by Michigan State University or holds an earned master's or higher degree from an approved institution.
- (c) Has completed any additional requirements specified by the State Board of Education.
- (d) Has made application for the renewal of the provisional certificate to Michigan State University.

A *second three year renewal* of the provisional certificate may be recommended if, in addition to items (a), (c), and (d), above, the applicant presents evidence that he or she has earned 18 semester credits after the issuance of the provisional certificate in a *planned* course of study approved by Michigan State University. A person with an earned master's or higher degree from an approved institution is not required to complete an 18 credit planned program.

Michigan Professional Education Teaching Certificates, elementary or secondary, may be recommended by Michigan State University for an applicant who presents evidence that the following requirements have been completed:

- (a) Has been officially admitted to Michigan State University to a degree program on a regular or provisional basis or to a Lifelong Education Teacher Certification program. Independent enrollment in courses through Lifelong Education Programs does not constitute official admission to a teacher certification program.
- (b) Has taught successfully for three years according to the validity of the provisional certificate and since the issuance of the provisional certificate.
- (c) Has earned 18 semester credits after the issuance of the state provisional certificate in a *planned* course of study approved by Michigan State University. A person with an earned master's or higher degree from an approved institution may not be required to complete an 18 credit planned program. Each master's degree is reviewed for relevance to the proposed certification area.
- (d) Has completed any additional requirements specified by the State Board of Education.
- (e) Has made application for the professional education certificate to Michigan State University.

The detailed requirements for teacher certification are not set forth here. Students who plan to teach should consult their academic advisers early in their programs of study to obtain information about the requirements for the particular teaching certificate in which they are interested.

Students who intend to pursue a teaching certificate should know that recommendations for certification will be subject to payment of a required fee to the State Department of Educa-

tion. Payment of the fee is a certificate requirement that must be met prior to the issuance of the teaching certificate. The *Administrative Rules Governing the Certification of Michigan Teachers* requires that an application for certification must be made no later than five years after credit requirements have been met. Furthermore, Part 10 ADMINISTRATIVE HEARINGS of the *Administrative Rules Governing the Certification of Michigan Teachers* (R 390.1201) states:

Rule 101. (1) The state board may refuse to grant or renew, or may revoke or suspend for a fixed term, or may impose reasonable conditions on, a teaching certificate granted pursuant to these rules for the following reasons:

- (a) Fraud, material misrepresentation, or concealment in the application for a certificate.
- (b) Failure or ineligibility of the applicant or certificate holder to meet the criteria for eligibility for the certificate.
- (c) Conviction, as an adult, of an act of immoral conduct contributing to the delinquency of a child, or of a felony involving moral turpitude.

Students should be aware that the State Board of Education has issued a statement indicating that the Board has consistently revoked or suspended a teaching certificate for a misdemeanor or felony conviction as an adult involving criminal sexual conduct, child abuse, or distribution of a controlled substance to a minor.

The College of Education will solicit information that will be used in making decisions on admission to or continued enrollment in teacher certification programs, internship placements, and recommendations for teacher certification. Information concerning the procedures that the College follows in soliciting and acting on such information may be obtained in the Office of Student Affairs, College of Education. Since the State of Michigan enters into reciprocal agreements with other states with reference to teacher certification, students should be aware that other states have requirements similar to those of the State of Michigan.

Students who intend to pursue a teaching certificate should also be apprised of the portions of Sec. 1531 of Act No. 267, Public Acts of 1986, that are referenced below:

- (2) Beginning July 1, 1992 and subject to subsection (12), the State Board of Education shall only issue a teaching certificate to a person who has passed all portions of the Michigan Test for Teacher Certification (MTTC) as follows:
 - (a) For a secondary level teaching certificate, has passed both the basic skills test and the appropriate available subject area test for each subject area (major or minor) in which he or she applies to be certified. At the secondary level, at least one major and one minor are required.
 - (b) For an elementary level teaching certificate, has passed the basic skills test and the elementary certification test, and has passed the appropriate available subject area test for each subject area, if any, in which he or she applies to be certified.
- (10) The Michigan Department of Education, or if approved by the state board, a private testing service, may assess fees for taking the basic skills test, elementary certification test, and the subject area tests. The fees, which shall be set by the state board, shall not exceed \$50.00 for a basic skills test nor \$75.00 for an elementary certification test or a subject area test. Students are responsible for all fees associated with certification, including the test fees.

ENDORSEMENTS

Persons who hold a bachelor's degree and a valid State of Michigan teaching certificate may be eligible for recommendation for additional endorsements. Endorsements are designations on a person's Michigan teaching certificate that identify the substantive field(s) that the person completed, and the relevant level(s) of certification.

MSU's programs that are related to substantive fields and levels of certification are on file with the Michigan Department of Education. The substantive fields are identified by Michigan Department of Education designations and codes.

After a person has met the requirements for an additional substantive field or has met the requirements for an additional level of certification by completing the appropriate MSU program, MSU recommends to the Michigan Department of Education that the person's Michigan teaching certificate be "endorsed" with the additional substantive field designation that represents the program that the person completed, or with the additional level of certification.

Persons may qualify for additional endorsements by meeting the requirements for any MSU disciplinary major or MSU disciplinary minor that is available for teacher certification.

A K-12 reading endorsement can be obtained by completing the requirements for MSU's Master of Arts degree program in literacy instruction. A counselor endorsement can be obtained by completing the requirements for MSU's Master of Arts degree program in counseling. A K-12 special education endorsement can be obtained in hearing impaired, visually impaired, emotionally impaired, or learning disabilities by completing the requirements for MSU's Master of Arts degree program in special education. A K-12 special education endorsement may be placed on either an elementary or secondary teaching certificate. Vocational endorsements in agricultural education and consumer homemaking can be obtained by meeting specified requirements.

Individuals who are interested in seeking additional endorsements must contact an academic adviser in the Office of Student Affairs, College of Education.

GRADUATE STUDY

Graduate study in the Department of Teacher Education leads to the Master of Arts, Educational Specialist, or Doctor of Philosophy degree.

CURRICULUM and TEACHING

Master of Arts

The master's program in curriculum and teaching is designed for persons who wish to acquire advanced professional knowledge related to teaching diverse learners in K-12 schools. Included in the program are two options for two unique student populations, both of which are engaged in the same area of professional study and practice.

The master's program in curriculum and teaching consists of (1) designated areas of integrated, practice-centered inquiry in professional, disciplinary, and contextual studies and (2) sustained, simultaneous study in both University and public-school settings. Within this broad framework, students meet the requirements of either Option I or Option II.

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Option I is designed for certified teachers and other experienced educators who wish to continue their professional studies in curriculum and teaching. Option I is offered in designated off-campus educational centers in Michigan and overseas, as well as on the East Lansing campus.

Option II is designed for students who wish to pursue a master's degree in curriculum and teaching while they are enrolled in the initial teacher certification program, or for persons who have completed MSU's Teacher Certification Internship Studies Program. To be eligible for Option II, candidates must have completed, or have been admitted to, MSU's teacher certification program as well as to the Master of Arts with a major in Curriculum and Teaching. [For additional information about the requirements for teacher certification, refer to the statement on *TEACHER CERTIFICATION*.] Option II is offered on the East Lansing campus and in other sites that are in proximity to those Michigan public schools that are affiliated with the teacher certification program.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the master's program are reviewed by faculty who look for evidence of appropriate preparation for advanced disciplinary and professional study at the master's level and the likelihood of academic success, as indicated by an applicant's prior educational record, work experience, statement of professional goals, letters of recommendation, and an assigned professional essay.

Requirements for the Master of Arts Degree in Curriculum and Teaching

The program is available only under Plan B (without thesis). Students must complete 30 credits distributed as follows:

	CREDITS
1. <i>Professional Development and Inquiry Core</i>	9
a. <i>Both of the following courses:</i>	
TE 807 Professional Development and Inquiry	3
TE 808 Inquiry into Classroom Teaching and Learning	3
b. <i>One of the following capstone courses:</i>	
TE 870 Curriculum Design, Development, and Deliberation in Schools	3
TE 872 Teachers as Teacher Educators	3
2. <i>Inquiry into the Foundations of Educational Practice</i>	6
a. <i>The following course:</i>	3
TE 818 Curriculum In Its Social Context	3
b. <i>One of the following courses:</i>	
(1) <i>For students who select Option I only:</i> One additional 3-credit course in the Department of Teacher Education from a list of approved courses that is available from the Department.	
(2) <i>For students who select Option II only:</i> TE 803 Professional Roles and Teaching Practice II	3
3. <i>Subject-Oriented Investigations in Teaching</i>	9
(1) <i>For students who select Option I only:</i> Three 3-credit courses, within or outside the College of Education, at the 400-level or above from a list of approved courses that is available from the Department of Teacher Education.	
(2) <i>For students who select Option II only:</i> TE 802 Reflection and Inquiry in Teaching Practice I . . . 3 TE 804 Reflection and Inquiry in Teaching Practice II . . . 3 One additional 3-credit course, within or outside the College of Education, at the 400-level or above from a list of approved courses that is available from the Department of Teacher Education.	
4. <i>Electives</i>	6
Additional credits in courses, within or outside the College of Education, at the 400-level or above. Courses outside the College of Education must be approved by the student's academic adviser.	
5. A <i>synthesis paper</i> acceptable to the student's examining committee. ¹ This paper must be submitted near the end of the student's program of study.	
6. A <i>professional portfolio</i> developed over time by the student and acceptable to the student's examining committee. ¹ The portfolio is re-	

viewed by the faculty who teach the courses that are used to satisfy the requirement referenced in item 1. above, by the student's academic adviser, and by a third designated faculty member.

¹ The submission of an acceptable synthesis paper and professional portfolio satisfies the University requirement of a final examination or evaluation.

CURRICULUM, TEACHING, and EDUCATIONAL POLICY

Educational Specialist

The educational specialist program in curriculum, teaching, and educational policy is designed for persons who wish to achieve additional proficiency in teaching and teacher education beyond the master's degree, but who do not intend to pursue the Doctor of Philosophy degree. The program is primarily suited to those persons who are interested in extending their leadership roles in local and intermediate school districts, state agencies, teacher education programs, and other teacher education-related or curriculum-related areas in the professions, government, and business.

Normally, master's degree course work serves as a base upon which other courses and experiences are developed. Programs will vary depending on previous work, student purpose, and background in education.

At the discretion of the guidance committee, students who are enrolled in the educational specialist program may take the department's doctoral proseminar course sequence and other courses that may be included in the Doctor of Philosophy degree program.

In addition to meeting the requirements of the College of Education, students must meet the requirements specified below.

Admission

Applications for admission to the program are reviewed by faculty who look for indications that the candidate has a high probability of success within the program and a strong likelihood of making an important professional contribution. Such indications include records that suggest good academic potential, evidence of study or experience in education, and a statement of professional goals that match the program. Applicants must submit examples of scholarly writing.

Requirements for the Educational Specialist Degree in Curriculum, Teaching, and Educational Policy

Students must complete the requirements specified below. At least 12 credits must be in 900-level courses, and at least 6 credits must be in Teacher Education courses.

	CREDITS
1. A specialized program of study that focuses on the student's educational and professional goals	18
2. Research courses	6
3. Supervised practicum to be taken <i>after</i> the student has completed 21 credits from the approved program of study	6
4. Additional credits in courses as required by the student's guidance committee.	

Doctor of Philosophy

The doctoral program in curriculum, teaching, and educational policy is designed for persons who are interested in and show promise of becoming scholars and leaders in the domains of curriculum, teaching, teacher education, and educational policy at the K-12 or college level, or in local, state, regional, national, or international institutions or agencies. The pro-

gram is characterized by its interdisciplinary and interinstitutional perspectives on problems and issues of educational practice.

Doctoral students in curriculum, teaching, and educational policy link their areas of specialization with one or more of the following emphasis areas:

1. *Curriculum, Teaching, and Learning.*
Faculty and doctoral students who are associated with this emphasis area are interested in the interactive relationships among curriculum; the teaching and learning of school subjects; and the ideological, social, and disciplinary contexts of teaching and learning within and across subject areas. The curriculum, teaching, and learning emphasis area supports specialization in language education, literacy, mathematics, science, and social studies. Among the areas of central inquiry are curriculum theories, history, design, and development; relationships between disciplines and school subjects; and debates about what knowledge is of most worth, for whom, and for what purposes.
2. *Educational Policy and Social Analysis.*
Faculty and doctoral students who are associated with this emphasis area share an interest in the critical analysis of educational policy. The courses that are related to the educational policy and social analysis emphasis area focus on a wide range of issues, including the social-historical contexts within which particular educational policies arise, the process by which educational policies are formulated, and the effects that educational policies produce. In analyzing these issues, faculty and students draw on a wide range of perspectives from the social sciences.
3. *Teacher Education and Teacher Learning.*
Faculty and doctoral students who are associated with this emphasis area are concerned with the relationship between teacher education and teacher learning at the preservice, induction, and inservice levels. The courses that are related to the teacher education and teacher learning emphasis area focus on the enterprise of teacher education, the practices of teacher educators, and the formal and informal learning of prospective, beginning, and experienced teachers over time and in different settings.

In addition to meeting the requirements of the University and of the College of Education, students must meet the requirements specified below.

Admission

Persons who hold degrees in a wide range of disciplines may apply for admission to the doctoral program. Applicants with limited backgrounds in education, however, may be required to complete collateral work in this field. Applicants must submit a sample of scholarly writing.

Review of applicants focuses on their study and experience in education, on the compatibility between their professional goals and the doctoral program, and on their potential for successful advanced degree work.

Requirements for the Doctor of Philosophy Degree in Curriculum, Teaching, and Educational Policy

Students must complete the following courses:

- | | | | | | CREDITS |
|--|-----|--|--|--|---------|
| 1. <i>Proseminar sequence.</i> Both of the following courses: | | | | | |
| TE | 901 | Proseminar in Curriculum, Teaching and Educational Policy I. | | | 3 |
| TE | 902 | Proseminar in Curriculum, Teaching and Educational Policy II. | | | 3 |
| 2. <i>Educational inquiry and research.</i> | | | | | |
| a. The following courses: | | | | | |
| CEP | 930 | Educational Inquiry. | | | 3 |
| CEP | 932 | Quantitative Methods in Educational Research I. | | | 3 |
| b. One of the following courses: | | | | | |
| CEP | 933 | Quantitative Methods in Educational Research II. | | | 3 |
| A 900-level course in advanced qualitative methods approved by the student's guidance committee. | | | | | |
| c. A research practicum to be taken <i>after</i> the student has completed the courses referenced in items 2. a. and 2. b. above: | | | | | |
| TE | 995 | Research Practicum in Curriculum, Teaching, and Educational Policy | | | 1 to 3 |
| 3. <i>Selective studies in education.</i>
Four courses from a list of approved courses that are designed to provide broad and diverse perspectives on education. The approved list is available from the Department of Teacher Education. | | | | | |
| 4. <i>Area of specialization.</i>
At least five additional courses in the student's area of specialization. <i>Both</i> the area <i>and</i> the related courses must be approved by the student's guidance committee. | | | | | |