

College of EDUCATION

Robert E. Floden, DEAN

The College of Education at Michigan State University is a community of students, educators and researchers prepared to meet the challenges of education and kinesiology. We are committed to improving practice together through exemplary research, teaching and service. With a renowned five-year teacher preparation program, rigorous training for health-related careers and several nationally ranked graduate programs, the College of Education prepares leaders who make an extraordinary impact on health, well-being and education around the world.

Under the guidance of renowned administrators and faculty members in four departments, students have opportunities to pursue or advance careers in teaching (elementary, secondary and special education), educational administration, higher education, research, policymaking, student affairs, rehabilitation counseling, school psychology, fitness training, sport leadership, and health care fields (e.g., preparation for physical therapy, work as a physician assistant or attending medical school). Degree programs are offered on-campus, online and in hybrid formats, which blend face-to-face and online learning. See program sections for details on programs available.

The College of Education has established a reputation for excellence and visionary thinking in its efforts to improve teaching and learning across our nation and world, particularly within the contexts of urban and global education. The faculty remains committed to addressing the educational and physical needs of all people across the life span, and to working closely with educators, leaders and policymakers in the field.

Innovative teacher education programs, outstanding faculty, relationships with practicing professionals and strong research opportunities make the MSU College of Education a dynamic place for learning to teach and contribute to the fields of education and kinesiology. The college is proud to claim more than 57,000 alumni, each touching lives in their own way around the world.

UNDERGRADUATE PROGRAMS

The College of Education offers four bachelor's degree programs: the Bachelor of Science degree in Athletic Training, the Bachelor of Arts degree in Education, the Bachelor of Science degree in Kinesiology, and the Bachelor of Arts degree in Special Education. The College also offers a Minor in Educational Studies.

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

The college offers prospective teachers interested in teaching in urban schools opportunities for admission to the Urban Educators Cohort Program as freshmen. The college also offers prospective teachers with an interest in global education to be admitted to the Global Educators Cohort program as freshmen. Students interested in these programs submit a supplemental application to the College of Education after being admitted to Michigan State University. See www.education.msu.edu/urbancohort and www.education.msu.edu/globalcohort for details.

Admission to College

Students seeking admission to any of the College of Education's undergraduate majors must meet the specific admission criteria and process for the major. For information about admission to the Athletic Training and Kinesiology majors, refer to the Admission section for those programs in the Department of Kinesiology section of this catalog. For information about admission to the Education and Special Education majors, refer to the Admission to the Teacher Certification Program section under Teacher Certification

tion in the *Department of Teacher Education* section of this catalog.

Honors Study

The College of Education encourages honor students to develop rich and distinctive programs of study. Each Honors College member is assigned a special advisor who is responsible for helping the student plan a balanced and rigorous course of study. Students are encouraged, when appropriate, to enroll in graduate seminars, to work on research projects with college faculty and to take full advantage of honors courses offered outside of the College of Education.

MINOR IN EDUCATIONAL STUDIES

The Minor in Educational Studies, which is administered by the College of Education, provides an opportunity for students interested in the intersection of learning, education, and society. The minor is a valuable addition for those pursuing careers in the social and behavioral sciences, law, social justice, or education. This minor does not offer professional training for teaching or lead to a teaching certificate or license.

The minor is available as an elective to students who are enrolled in bachelor's degree programs at Michigan State University other than the Bachelor of Arts degrees in Education and Special Education. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult with the academic advisor for the Educational Studies minor in the College of Education.

Requirements for the Minor in Educational Studies

				CREDITS				
1.	Comple	ete the	following course (3 credits):					
	TE	201	Current Issues in Education					
2.	Comple	ete 15	credits of approved course work from the following:					
	CEP	260	Dynamics of Personal Adjustment					
	CEP	261	Substance Abuse					
	CEP	370	Educating Students with Special Needs 3					
	CEP	371	Fundamentals of Conflict and Conflict Resolution					
			in Educational Settings					
	CEP	416	Teaching and Learning with Technology					
	CEP	460	Communication Skill Training for the Helping					
			Professional					
	CEP	470	Disability in a Diverse Society					
	EAD	315	Student Leadership Training					
	EAD	361	Educational Reform and Policy Analysis					
	EAD	362	Student Culture and Higher Education					
	EAD	363	Diversity and Higher Education					
	TE	150	Reflections on Learning 3					
	TE	250	Human Diversity, Power, and Opportunity in Social					
			Institutions					
	TE	351	Urban Education					
	TE	352	Immigrant Language and Culture					
	TE	353	International Education					
	Additional courses may be used to fulfill this requirement with approval							

by the student's academic advisor for the minor.

TEACHER CERTIFICATION OPTIONS

Disciplinary majors in education and special education leading to bachelor's degrees in the College of Education are available for teacher certification.

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

For additional information about the teacher certification options, including the many majors throughout the university that are available for those choosing to become secondary education teachers, 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.

GRADUATE STUDY

Graduate programs in the College of Education provide opportunities for advanced study and research in education and kinesiology, and foster development of the insight and skill needed to deal with the many challenges that confront our graduates in today's professions.

The college offers the following degrees in a variety of specialties: Master of Arts, Master of Science, Educational Specialist, Doctor of Education, and Doctor of Philosophy. Several graduate certificates and specializations are also available. Students study the profession in general as well as particular specialties. There is considerable latitude for students to plan their studies in collaboration with their faculty advisors and to work with faculty across the College and university.

Students who are enrolled in the Doctor of Philosophy degree program in Educational Psychology and Educational Technology in the Department of Counseling, Educational Psychology and Special Education and the Doctor of Philosophy degree program in Curriculum, Instruction, and Teacher Education in the Department of Teacher Education may elect a graduate specialization in language and literacy. For additional information refer to the statement on the *Graduate Specialization in Language and Literacy* in the *Teacher Education* section of this catalog.

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 a specialization in infancy and early childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood* in the *College of Social Science* section of this catalog.

The Master of Science and Doctor of Philosophy degrees in Mathematics Education are administered jointly by the College of Natural Science and the College of Education. The College of Natural Science is the primary administrative unit. For additional information, refer to the statements on *Mathematics Education* in the *College of Natural 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 education (M.A.) mathematics education (M.S.) Department of Counseling, Educational Psychology and Special Education applied behavior analysis (M.A.) educational technology (M.A.) rehabilitation counseling (M.A.) school psychology (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.) sport coaching and leadership (M.S.)

Department of Teacher Education teaching and curriculum (M.A.)

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 study 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 advisor. Program changes require the approval of the advisor.

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.

Students in any master's program in the College of Education may apply a maximum of 12 credits earned through any combination of courses taken through lifelong education, graduate certification, or in transfer from another institution. Each program may determine if courses are appropriate for the master's program and may allow fewer than 12 credits to be applied to the specific master's program.

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 or equivalent 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

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 assurance 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 or equivalent. 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 advisor.

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 (GRE) General Test scores. Students 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.

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 fall and spring semester of graduate study normally embraces 30 semester credits of graduate study. When the master's degree or equivalent 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 advisor 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 Education

The program is designed for educators and other practitioners who have aspirations for improving their own leadership practice, for developing leadership capacity within their organizations and communities, and for making significant contributions to their local communities and to the future of Michigan. Most graduates with this degree will take up system level leadership in various education agencies, including local and regional school districts, state educational agencies, and professional educational associations. Graduates will also be prepared to teach in community colleges and regional universities, or to hold adjunct or clinical positions in research universities, as well as hold other types of educational leadership positions. Graduates of the program with appropriate prior credential and experience qualify for the Michigan Central Office Administrator endorsement.

Admission

Applicants to the Doctor of Education generally have leadership experience in a school and hold a master's degree in education or its equivalent. Students who wish to qualify for the Michigan Central Office Administrator endorsement by completing the Doctor of Education should already hold the School Administrator credential before applying to the program.

Applicants must have a minimum grade-point average of 3.5 in previous graduate work, submit a goal statement, submit three letters of recommendation from persons who are acquainted with the applicant's academic and professional experience, performance, and potential, and submit scores earned on the Graduate Record Examination (GRE).

Faculty members review applications for program admission and look for indications of a high probability of success if admitted. Such indications include a high level of academic performance in prior degrees, levels of reference supporting academic and clinical proficiency, past leadership experiences and evidence of effectiveness, quality of written expression and a statement of professional goals that is consistent with the objectives of the program. Applicants may be required to participate in an interview and to submit a sample of scholarly or professional writing.

Requirements for the Degree

The Doctor of Education program consists of a minimum of 45 credits of graduate study beyond the master's degree. The program is a three year, summer intensive program. The first year focuses on core knowledge required by educational leaders, policy makers, and researchers and follows a calendar that differs from the regular MSU academic calendar. The second year deepens students core knowledge of leadership and systems operations on the regular MSU semester course schedule. Year three is dedicated to completion of the capstone projects. At least 6 credits that are required for the degree must be earned on the East Lansing campus within a single semester.

Guidance Committee

Each student admitted to the Doctor of Education program will form a guidance committee with the approval and the assistance of the department. The guidance committee will consist of at least four Michigan State University regular faculty at least three of whom, including the committee chairperson, possess an earned doctoral degree.

Academic Standards

Candidates for the Doctor of Education degree must achieve a grade–point average of 3.0. Attainment of the minimum grade–point average is in itself an insufficient indicator of potential for success in other aspects of the program and in the field. The guidance committee and academic unit are jointly responsible for evaluating the student's competency (as indicated by, e.g., grades in core and other courses, research performance, and development of professional skills) and rate of progress (as indicated by, e.g., the number of courses for which grades have been assigned or deferred). Written evaluations shall be communicated to the student at least once a year, and a copy of such evaluations shall be placed in the student's file. A student whose performance does not meet the standards of quality will not be permitted to continue to enroll in the degree program, and appropriate action will be taken by the college or department.

Comprehensive Examinations

When the prescribed course work is substantially complete as defined by the guidance committee, the Doctor of Education student will present a portfolio of leadership performance assessments completed during required course work as the comprehensive examination, to be evaluated by members of the guidance committee. The examination portfolio will be maintained in the department for three years. Students must be registered during the semester(s) in which they present the comprehensive examination portfolio. This requirement may be waived by the Dean of The Graduate School upon request of the chair of the academic unit, if the examination is administered during the summer session immediately following a spring semester during which the student was registered and/or prior to a fall semester in which the student will be registered.

Scheduling, composing, and evaluating the comprehensive examinations is done in accordance with college and department policy. The department or college shall make available to doctoral students upon matriculation a written explanation of comprehensive examination procedures. The comprehensive examination portfolio must be completed and approved before the student is permitted to participate in a group capstone project.

Transfer Credits

Graduate credits may be transferred from other accredited institutions or international institutions of similar quality if they are appropriate to the student's program and provided they were completed within the time limits approved for the earning of the degree desired at Michigan State University. The department chairperson and dean must grant approval. Only graduate–level courses in which at least a 3.0 (B) grade was received will be considered for transfer.

Time Limit

All components of the comprehensive examination portfolio must be approved within four years and all remaining requirements for the degree must be completed within six years from the time when a student begins the first class at Michigan State University that appears on his or her doctoral program of study. Application for extensions of the six-year period of time toward degree must be submitted by the department for approval by the dean of the college and the Dean of The Graduate School. Upon approval of the extension, the Doctor of Education comprehensive examination portfolio must be prepared anew and submitted for evaluation.

Doctor of Philosophy

Doctoral programs in education and kinesiology 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 academic units listed below:

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

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 doctoral 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.

All doctoral candidates in the college are required to successfully complete a minimum of 9 or more credits focused on research methods approved by their program and a research practicum course of CEP 995 or EAD 995 or KIN 995 or TE 995 for 1 to 3 credits.

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.

EDUCATION

Master of Arts

The Master of Arts degree in Education is designed for educators who are interested in enhancing their professional practice through online study of advanced professional knowledge related to teaching, learning, and leadership in P-12 schools and postsecondary contexts such as community colleges, universities, community centers, and the workplace.

The primary objective of the master's degree program in education is to help students acquire a breadth of knowledge grounded in theory while gaining expertise in one or more areas of concentration.

A range of relevant courses and experiences can be incorporated into the student's program to satisfy individual needs and interests. The student must select one of the six concentration areas of study within the discipline of education as part of their planned program: Literacy Education, P-12 School and Postsecondary Leadership, Science and Mathematics Education, Special Education, Sport Coaching and Leadership, or Technology and Learning. The online format of the program provides optimum flexibility for students who wish to engage in inquiry and learning that will contribute to exemplary educational practice.

The College of Education has not determined whether the Master of Arts Degree in Education (MAED) online program satisfies licensure, endorsement, or certification requirements in all states. Licensure and certification is regulated individually by states and no two are exactly alike. Some states have different levels of licensure and/or certification requirements. For example, in Michigan, the MAED online program alone does not lead to State of Michigan endorsement or initial teacher certification. Students who wish to use this program for renewal, endorsement, or certification in their home state should contact their bachelor's certification institution or their home state department of education for applicable requirements, rules, and regulations of their home state. Students are responsible for determining whether the MAED online program will meet their home states' requirements for certification, licensure, or otherwise advancing a student's teaching credentials. Contact MSU's Online MAED academic advisor with questions or, for state department of education contact information, please visit www2.ed.gov/about/contacts/state/index.html.

The requirements for the program must be completed within five years. All course work, including potential transfer and previous MSU course work, must be no older than five years at the time of graduation. Once enrolled in Master of Arts degree in Education, only MSU courses delivered fully online will be accepted for use toward the degree requirements. In addition to meeting the requirements of the university and of the College of Education, students must meet all requirements specified below with advisor approval.

Admission

Applications for admission to the Master of Arts in Education are reviewed by College of Education faculty who look for evidence of appropriate preparation for advanced professional study at the master's level and the likelihood of success in the distance learning format. Such evidence includes applicant's prior educational record, work experience in educational settings, and a statement of professional goals that is consistent with the intellectual focus and online format of the program. In this statement, applicants must specify their interest in at least one area of concentration and address their personal and professional strengths that support their ability to engage in online learning.

Requirements for the Master of Arts Degree in Education

The program is available only online and only under Plan B (without thesis). The student must complete a total of 30 credits approved by the MAED academic advisor distributed as follows: CREDITS

- ED
 800
 Concepts of Educational Inquiry
 3

 ED
 870
 Capstone Seminar
 3
- Complete one concentration area as approved by the MAED advisor (9-21 credits). Concentrations are available in Literacy Education, P-12 School and Postsecondary Leadership, Science and Mathematics Education, Special Education, Sport Coaching and Leadership, or Technology and Learning.
- 4. Additional credits in courses approved by the MAED advisor to complete the 30 credit minimum. Students are able to pursue a second concentra-

tion area with a 9-credit minimum or utilize prior applicable course work at MSU or another institution, pending advisor approval.5. Successful completion and exhibition of an online portfolio.

DEPARTMENT of COUNSELING, EDUCATIONAL PSYCHOLOGY and SPECIAL EDUCATION

Cary J. Roseth, 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 the learning disabilities area 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 in the section on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

Admission

To earn a degree in special education, students must apply and be admitted to the Teacher Certification Program administered by the Department of Teacher Education in the College of Education. Refer to Admission to the Teacher Certification Program in the Department of Teacher Education section of this catalog.

Information about admission requirements and the application process can be found at *http://education.msu.edu/academics/undergraduate/apply-teacher-prep.asp.*

In addition to general admission requirements, applicants applying for admission to the Teacher Certification Program with a major in special education must also complete one or two supervised pre-admission experiences totaling at least 42 hours in the area of learning disabilities. Prospective special education students are strongly encouraged to talk with special education faculty about the potential value of sites for securing the required experience. Applicants to the special education program must submit a form verifying completion of the experience with the completed application. Only students who have completed the required experience will be considered for admission.

Requirements for the Bachelor of Arts Degree in Special Education

 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. b. (1) below may also satisfy the University mathematics requirement.

^{1.} Both of the following courses (6 credits):

The University's Tier II writing requirement for the Special Education major is met by completing Counseling, Educational Psychology and Special Education 301. That course is referenced in item 2. d. below.

	ooun			C	REDITS
2.	The ta.		ing requirements for the major: fessional Education Courses (21 credi	te).	
	a.		of the following courses with a grade-poi		
			ve with no individual grade below 2.0:		
		CEF TE	240 Diverse Learners in Multicultur 150 Reflections on Learning		3
		ΤĒ	301 Literacy, Learners and Learnin	ig in Context	
		TE	- Elementary (W)	o Loomoro Elementari	, 3 , 3
		ΤĒ	403 Teaching of Science to Diverse 404 Teaching of Social Studies to I		5
		TC	– Elementary		3
		ΤE	405 Teaching of Language and Lite Learners – Elementary		3
		ΤE	406 Teaching of Mathematics to Di	iverse Learners	
	b.	Pla	Elementary ined Program for Elementary Education	on for Special Edu-	3
	2.		on Majors (20 to 30 credits):		
			ourses are required unless otherwise sta		
			w are also required for or applicable to the Majors. The Planned Program must tota		
			are not double-counted with the required		
			didates for elementary certification must		
		(1)	Planned Program course with a minimum Both of the following mathematics course		
		. ,	MTH 201 Elementary Mathematics	for Teachers I	3
			MTH 202 Elementary Mathematics Mathematics 201 and Mathematics 202		3
			Elementary Mathematics Teaching Ma		
			credits count toward the Planned Progra		
			and 202 are prerequisites for Teacher must be completed with a minimum grad		
			rollment in Teacher Education 406.		
		(2)	The following course in children's literat		
			TE 348 Reading and Responding Literature		3
			Teacher Education 348 is required for	the Language Arts	
			Teaching Major in which case 0 credi Planned Program. Teacher Education 3		
			for Teacher Education 405 and must b		
			minimum grade of 2.0 prior to enro	ollment in Teacher	
		(3)	Education 405. One of the following courses on language	e acquisition and de-	
		(3)	velopment (3 or 4 credits):		
			CSD 333 Oral Language Developm	ent	3
			ENG 302 Introduction to English La LIN 200 Introduction to Language		3 3 3
			LIN 401 Introduction to Linguistics		4
			Special education majors are encourage cative Sciences and Disorders 333, which		
			the Learning Disabilities area of emphas		
			least 2.0, this course may be counted		
			Planned Program and the Learning ments. Students completing the Langu		
			Major may count one of the other course		
			in which case 0 credits count toward the		
			Communicative Sciences and Disorders to the Language Arts Teaching Major, in		
			count toward the Planned Program.		
		(4)	The following course on science in the el	ementary schools (3	
			credits): ISE 301 Science for Elementary S	chools	3
			Integrated Science Education 301 is v	waived for the Inte-	
			grated Science Teaching Major. Integra tion 301 is a prerequisite for Teacher		
			must be completed with a minimum grad		
		(=)	rollment in Teacher Education 403.		
		(5)	The following U.S. History course (4 cre HST 202 U.S. History to 1876		4
			History 202 is required for the Social St	udies Teaching Ma-	
			jor, in which case 0 credits count toward	rd the Planned Pro-	
		(6)	gram. The following geography course (3 cred	tits).	
		(3)	GEO 204 World Regional Geograph	hy	3
			Geography 204 is required for the Soci		
			Major, in which case 0 credits count the Program.	iowaru ine Planned	
		(7)	One of the following arts courses (4 cre		
			IAH 208 Music and Culture (I) IAH 209 Art, the Visual, and Cultur		4 4
			IAH 209 Art, the visual, and Cultur IAH 241A Creative Arts and Human		4
			Society in the Modern \	World (D)	4
			IAH 241C Creative Arts and Human Artistic Traditions of Eu		4
			IAH 241D Creative Arts and Human		

	and Society in the West (I)
IAH	241E Creative Arts and Humanities: The
	Creative Process (D)

4

		Student degree 241F to credits r	241F Creative Arts and Humanities: Traditions in World Art I (I) s may use IAH 208 or 209 to satisfy the IAH 201-210 requirement and IAH 241A, 241C, 241D, 241E or o satisfy the IAH 211-241 degree requirement. (4 may count toward both the Planned Program and the ity's Integrative Studies requirement in Arts and	4
	(8)	One of f MUS TE TE TE THR Languag courses credits of	the following creative arts courses (3 credits): 463 Methods and Materials of Elementary Music . 430 Introduction to Arts in the Classroom 431 Learning through Drama 432 Learning through Movement	3 3 3 3 3 3 3 3
	(0)		355 Physical Activity and Health Education	0
C.	Tead studi pros cance pros ader tral t enro to th Prog (1) (2) (3) (4)	ching M ies, integ pective of lidates m ors, whic pective e nic studio o the cor Il in one of e Colleg rram. Languag Social S Integrat Mathem	for Elementary Teachers	3
d.			sabilities Area of Emphasis (19 credits): owing courses:	
	CEP CEP CEP CEP CEP CEP	301 449 451 452 333	Jurge Colleges. Literacy Instruction for Students With Mild Impairments (W) Behavior Management in Special Education. Models of Special Education Administration and Services. Universal Design for Learning in the General Education Classroom Oral Language Development Introductory Psychology	3 3 3 3 3 4
			, ,,,	

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 **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 elect the special education disciplinary major must contact the Department of Counseling, Educational Psychology and Special Education. For additional information, refer to the section on *TEACHER CERTIFICATION* in the *Department of Teacher Education* section of this catalog.

GRADUATE STUDY

The department offers the graduate programs that are listed below:

Graduate Certificates

applied behavior analysis in special education educational psychology educational technology k12 computer science education online teaching and learning

Master of Arts

applied behavior analysis educational technology rehabilitation counseling special education

Educational Specialist

school psychology

Doctor of Philosophy

educational psychology and educational technology measurement and quantitative methods rehabilitation counselor education school psychology special education

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

Students who are enrolled in the Doctor of Philosophy degree program in Educational Psychology and Educational Technology in the Department of Counseling, Educational Psychology and Special Education may elect a graduate specialization in language and literacy. For additional information, refer to the statement on *Graduate Specialization in Language and Literacy* in the *Department of Teacher Education* section of this catalog.

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 Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specializations in Infancy and Early Childhood* in the *College of Social Science* section of this catalog.

APPLIED BEHAVIOR ANALYSIS

The Master of Arts degree in Applied Behavior Analysis is designed for persons who plan to be involved in the delivery of behavioral services and interventions to public consumers. It provides the opportunity to develop in-depth knowledge and applied competence in the delivery of behavior analysis to improve the quality of life of consumers in various service settings.

The degree is relevant for persons interested in pursuing careers in behavior analysis that require the Board Certified Behavior Analyst (BCBA) credential. The program offers graduate-level course work and supervised fieldwork in behavior analysis required by the Behavior Analyst Certification Board (BACB) to sit for the national Board Certification exam, which students complete independently. The program develops knowledge and competencies in the administration of behavior analysis beyond an undergraduate or graduate certificate program. It provides students with skills a BCBA requires, such as strong communication, analytical, and scientist-practitioner skills, as well as interpersonal skills that facilitate collaboration with and leadership of professional groups.

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 to the Master of Arts degree in Applied Behavior Analysis must:

- 1. submit both departmental and university application forms.
- 2. submit three letters of recommendation from person knowledgeable about the applicant's academic potential to pursue graduate study and competence or potential to deliver applied behavior analysis services.
- submit a statement of professional goals that clearly describe the applicant's reasons for pursuing the master's degree and the goals that the degree will help them attain.
- 4. have access to high-speed internet and the appropriate technologies.

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 Master of Arts degree in Applied Behavior Analysis:

- 1. A grade-point average of 3.00 or higher in the last two years of undergraduate and all graduate courses.
- 2. Experience working with children and youth with disabilities in a school or camp or other experience with behavior analysis that is acceptable to the faculty.
- 3. Professional goals that are consistent with the objectives of the degree program.
- 4. A test of English language proficiency for students for whom English is not a first language.
- 5. Submission of Graduate Record Examination (GRE) scores.

Admission to the program is competitive and subject to space availability. Not all students who meet the above requirements will be admitted. A student who, in the judgment of the faculty, has not completed the appropriate course work in exceptional children or behavior management may be required to complete such course work in addition to the requirements below. This collateral course work will not count towards degree requirements. Students will be admitted only during fall semester. Applications must be submitted by March 1st.

Requirements for the Master of Arts Degree in Applied Behavior Analysis

CREDITS

The program is available under Plan A (with thesis). Students must complete a minimum of 37 credits from the following:

1.	All of the following courses (21 credits):							
	CEP 845 Autism Spectrum Disorders: Assessment							
			and Intervention	3				
	CEP	851	Concepts and Principles of Applied					
			Behavior Analysis	3				
	CEP	852	Experimental Analysis of Behavior	3				
	CEP	853	Functional Behavior Assessment and Behavior Change	3				
	CEP	854	Ethics in Behavior Analysis	3				
	CEP	855	Verbal Behavior in Education	3				
	CEP	942	Single-case Experimental Designs for Intervention					
			Research	3				
2.	Ten cr	edits in	the following course to be completed in three enrollments					
	during	the stu	udent's first year in the program.					
	CEP	894F	Practicum in Applied Behavior Analysis	10				
3.	The fo	llowing	course (6 credits):					
	CEP	899	Master's Thesis Research.	6				
4.	Complete a written report commensurate with publication requirements							

in Applied Behavior Analysis. 5. Successfully defend the thesis before a faculty committee.

APPLIED BEHAVIOR ANALYSIS IN SPECIAL EDUCATION

Graduate Certificate

The Graduate Certificate in Applied Behavior Analysis in Special Education prepares special educators for roles as behavior analysts in educational settings. Students will prepare to take and pass the national behavior analyst certification examination developed by the Behavior Analyst Certification Board in accordance with governing bodies in behavior analysis. The certificate is available only online.

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 Graduate Certificate in Applied Behavior Analysis in Special Education must:

- 1. submit both departmental and university application forms.
- 2. have a master's degree or be enrolled in a master's degree program at Michigan State University.
- submit three letters of recommendation from persons knowledgeable about the applicant's academic potential to pursue graduate study and competence or potential to deliver applied behavior analysis or related services.
- 4. submit a statement of professional goals that clearly describe the applicant's reasons for pursuing the certificate and the goals that the emphasis area will help them attain.
- 5. have access to high-speed internet and the appropriate technologies.

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 emphasis area:

- 1. A grade-point average of 3.00 or higher in the last two years of undergraduate and all graduate courses.
- 2. Experience working with children and youth with disabilities in a school or camp or other experience with behavior analysis that is acceptable to the faculty.
- Professional goals that are consistent with the objectives of the emphasis area.
- 4. A test of English language proficiency for students for whom English is not a first language.

The certificate requires completion of a three- or six-course sequence, depending on an applicant's prior course work in applied behavior analysis. All courses are offered online only. Students are required to have access to high-speed internet and the appropriate technologies. Students transcripts and previous course syllabi will be reviewed by the program coordinator to determine whether a student will follow the three- or six-course sequence. Course selections must be pre-approved by the program coordinator to ensure compliance with the requirements of the Behavior Analysts Certification Board. A student who, in the judgment of the faculty, has not completed appropriate courses in exceptional children or behavior management may be required to complete such courses in addition to the requirements below.

Requirements for the Graduate Certificate in Applied Behavior Analysis in Special Education

		CR	EDITS					
Students r	Students must complete three to six courses from the following (9 to 19 credits):							
CEP	844	Applied Behavior Analysis I	3					
CEP	845	Autism Spectrum Disorder: Assessment and Intervention	3 or 4					
CEP	846	Autism Spectrum Disorders: Advanced Topics	3					
CEP	854	Applied Behavior Analysis II	3					
CEP	855	Verbal Behavior in Education	3					
CEP	942	Single-case Experimental Designs for Intervention Research	3					

Students currently enrolled in the Master of Arts Degree in Special Education pursuing an Autism Spectrum Disorder Endorsement will complete CEP 844, 845, and 846 as part of these requirements.

EDUCATIONAL PSYCHOLOGY

Graduate Certificate

The Graduate Certificate in Educational Psychology is designed to provide educators and non-educators with knowledge and perspectives on learning and development. By understanding the psychological processes that underlie learning, as well as the practices that support these processes, the developmental mechanisms that lead to individual differences, and the impact of motivation, participants will gain deeper insight into the needs of developing learners. The certificate is available only online.

Admission

To be considered for admission to the Graduate Certificate in Educational Psychology an applicant must:

- 1. have completed a bachelor's degree.
- 2. submit the university application form and fee.
- 3. Complete the Intent to Enroll form on the program Web site.
- provide transcripts from all previous institutions of higher education.
- 5. complete a test of English language proficiency if English is not the first language.

Applications are reviewed by faculty who look for indications of a high probability of success.

Requirements for the Graduate Certificate in Educational Psychology

			CREDIIS
Stude	nts mu	st complete the following courses (9 credits):	
CEP	800	Psychology of Learning in School and Other Settings	3
CEP	801	Psychological Development: Learner Differences	
		and Commonalities	3
CEP	802	Developing Positive Attitudes toward Learning	3

EDUCATIONAL PSYCHOLOGY AND EDUCATIONAL TECHNOLOGY

Doctor of Philosophy

The doctoral program in educational psychology and educational technology is designed for persons who show promise of becoming scholars and leaders in the study of human learning and development in varied educational settings and the study, creation, and use of diverse technologies supporting learning and teaching. The program places emphasis on rigorous scholarship and formulation of analytic perspectives on learning, development, and technology embedded in culture and society. Graduates of this program will be equipped to pursue careers in university research and teaching, research and development of online learning environments in diverse educational settings and to assume leadership roles in school systems and the private sector.

Doctoral students in educational psychology and educational technology focus their studies in one or both of the following emphasis areas:

Educational Psychology. Students study processes of human learning and development in naturally occurring settings such as homes, classrooms, peer groups, workplaces, and laboratories in order to understand and improve educational practice. Program participants often base their analyses in specific domains, including mathematics, literacy, and science.

CDEDITO

Educational Technology. Students engage in research and development seeking to understand the pedagogy, policy, and design of media and technologies in support of learning, nationally and internationally, in formal environments such as traditional and online classes as well as in informal environments such as homes and after-school programs.

Students who are enrolled in the Doctor of Philosophy degree program in Educational Psychology and Educational Technology in the Department of Counseling, Educational Psychology and Special Education may elect a specialization in language and literacy. For additional information, refer to the statement on Graduate Specialization in Language and Literacy in the Department of Teacher Education section of this catalog.

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

Admission

Persons who hold degrees from a variety of disciplines may apply for admission. The review of applications focuses on previous study and experience, compatibility between academic and professional goals and this doctoral program, and demonstration of potential for successful advanced degree work.

All students admitted to the program begin their studies in fall semester. The deadline for submitting applications is December 1 prior to the year for which admission is sought in order to receive full consideration for financial support. Applications received after this date will be reviewed if space is available in the program.

Requirements for the Doctor of Philosophy Degree in Educational Psychology and Educational Technology

The student must meet the requirements specified below:

	e siuu		JSUITE	et the requirements specified below.	CREDITS
1.	Prose	eminar	Seque	nce	6
				ng courses:	Ū
	CEP	900		seminar in Educational Psychology and	
				Educational Technology I	
	CEP	901	Pro	seminar in Education Psychology and	
			Ŀ	Educational Technology II3	
2.	Educ	ational	Inquir	and Research	15
				courses:	
	CEP	930	Edu	cational Inquiry	
	CEP	932	Qua	antitative Methods in Educational	
			F	Research I	
	CEP	933		antitative Methods in Educational	
	CEP	955		Research II	
	CEP	955		Psychology and Educational Technology	
	CEP	995		cticum in Research Design and	
	02.	000		Data Analysis	
3.	Core	Cours	es (12	credits):	
	a.		f the fo	bllowing courses (3 credits):	
		CEP	911	Intellectual History of Educational Psychology 3	
		CEP	916	Intellectual History of Educational Technology 3	
	b.			following courses (9 credits):	
		CEP	902	The Psychology Learning School Subjects3	
		CEP CEP	903 904	Cognitive Development Across the Lifespan3 Social-Emotional Development across the	
		CEP	904	Lifespan	
		CEP	909	Cognition and Technology	
		CEP	910	Motivation and Learning	
		CEP	917	Design of Media for Learning	
		CEP	953	Teachers and Technology	
		CEP	956	Mind, Media, and Learning 3	
4.				tion. At least three additional courses in the student's	
				on. Students are encouraged to include some course	
				the Department of Counseling, Educational Psychol-	
				ducation. Emphasis area and concentration courses erent program of study approved, in advance, by the	
				e committee.	
5.				al preliminary examination, focused on scholarly writ-	
5.				e of research at the end of the first year of doctoral	
	study		onaqui		
6.			compl	etion of a research apprenticeship.	
7.				tion and defense of the dissertation.	
	0				

Complete 24 credits of CEP 999 Doctoral Dissertation Research. Students may not earn more than 30 credits in CEP 999 Doctoral Dissertation Research

EDUCATIONAL TECHNOLOGY

Graduate Certificate

The Graduate Certificate in Educational Technology is designed to assist current educators in becoming better teachers by utilizing new technologies to improve instructional practice. The introduction of new technology in the classroom will help participants re-think their own practice as teachers, evaluate their own beliefs about what helps students learn, and consider new ideas and perspectives that they might otherwise have overlooked or not encountered.

The scheduling of the certificate program allows flexibility to accommodate both full-time students and working professionals by offering accelerated summer study programs, as well as online and face-to-face courses.

This certificate program has been identified as the first three courses of the Educational Technology NP Endorsement concentration.

This program is not accredited by the Kentucky Education Professional Standards Board and is not recognized for initial, additional, or renewal of certification or salary enhancement (rank change) for K-12 educators in Kentucky.

Admission

To be considered for admission into the Graduate Certificate in Educational Technology, applicants must have completed a bachelor's degree. For additional information, refer to the Admission section in the Graduate Education section of this catalog.

Requirements for the Graduate Certificate in Educational Technology

			CREDITS
Students	must c	complete all of the following courses (9 credits):	
CEP	810	Teaching for Understanding with Technology	3
CEP	811	Adapting Innovative Technologies to Education	3
CEP	812	Applying Educational Technology to Issues of Practice	3

Master of Arts

The Master of Arts degree program in Educational Technology prepares students for the thoughtful use and design of technology in various educational settings. The program draws on current theories of learning and development to understand the role of technology in learning and instruction.

The program is offered in several different formats and allows flexibility to accommodate both full-time students and working professionals by offering accelerated summer study programs, online and hybrid courses.

An Educational Technology (NP) endorsement can be added to either an elementary or secondary certificate by completing the requirements for MSU's Master of Arts degree program in Educational Technology. For more information on the NP endorsement, visit http://edutech.educ.msu.edu/programs/masters/.

This program is not accredited by the Kentucky Education Professional Standards Board and is not recognized for initial, additional, or renewal of certification or salary enhancement (rank change) for K-12 educators in Kentucky.

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, experience with educational technology, and consistency of professional goals with the objectives of the program.

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

Requirements for the Master of Arts Degree in Educational Technology

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

			CREDITS
Core C	Course	s. All of the following courses:	9
CEP	800	Psychology of Learning in School and Other	
		Settings	5
CEP	807	Proseminar in Educational Technology	5
CEP	822	Approaches to Educational Research	5
Compl	letion o	f a minimum of 21 credits of course work at the 800-level or	
above	as app	roved by the student's academic advisor. A list of approved	
course	es is av	ailable from the Educational Technology Program.	
	CEP CEP Compl above course	CEP 800 CEP 807 CEP 822 Completion c above as app courses is av	Settings

K12 COMPUTER SCIENCE EDUCATION

The Graduate Certificate in K12 Computer Science Education prepares K12 teachers to teach computational thinking to learners at the elementary and secondary levels. Domains include computational thinking, algorithmic thinking, breaking down complex problems, abstracting and generalizing principles to solve problems, and development of creative thinking. Teachers learn to teach these concepts and skills through culturally relevant pedagogy, attending to how culture and context impact student learning.

Admission

To be considered for admission into the Graduate Certificate in K12 Computer Science Education, applicants must have completed a bachelor's degree with a minimum grade-point average of 3.0.

Requirements for the Graduate Certificate in K12 Computer Science Education

Students must complete 9 credits from the following courses:

			CREDITS
CEP	814	Computational Thinking for K12 Educators	3
CEP	824	Programming Concepts for K12 Educators	3
CEP	833	Creativity in K12 Computing Education	3

MEASUREMENT AND QUANTITATIVE METHODS

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 guantitative 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.

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 three letters of recommendation, including at least one letter of recommendation from a professor or employer.

The applicant is required to submit supplemental documents and information as determined by the program, as well as the university application.

Persons are admitted to the program for fall semester only. The deadline for submitting applications is December 1 of each year for admission the following fall semester. If space is available, late applications may be considered.

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 Doctor of Philosophy Degree in Measurement and Quantitative Methods

The student's program plan of course work must fulfill the requirements described below. In addition to completing the required course work, students should participate in measurement and quantitative methods seminars and satisfy the College of Education breadth requirements which require basic knowledge in at least four of the following areas of general professional education: administration; curriculum; psychological foundations; research and evaluation methods; social, philosophical, and historical foundations; motor development and motor learning; biological foundations; ethical considerations; and issues of diversity in education. CREDITS

					CREDITS
1.				Il of the following courses (30 to 32 credits):	
	CEP	900) Pro	oseminar in Educational Psychology and	
				Educational Technology I	3
	CEP	920) Ba	sic Concepts in Educational and Social Science	
				Measurement	3
	CEP	92		ychometric Theory I	3
	CEP	923		m Response Theory	3
	CEP	930		lucational Inquiry	3
	CEP	932	2 Qu	antitative Methods in Educational Research I	3
	CEP	93		antitative Methods in Educational Research II	3
	CEP	934		Iltivariate Data Analysis I	4
	CEP	93	5 Ad	vanced Topics in Multivariate Data Analysis II	4
	CEP	99	5 Pra	acticum in Research Design and Data Analysis	1 to 3
2.	Cond	entra	ation C	ourses.	
	a.	Mea	sureme	ent Majors:	
		The	followir	ng course:	
			922	Psychometric Theory II	3
	b.			e Majors:	0
	2.			following courses:	
		EC			3
		EC		Econometrics IB	3
			802		3
			803		3
			441	Probability and Statistics I: Probability	3
			442	Probability and Statistics II: Statistics	3
			861	Theory of Probability and Statistics I.	3
			862	Theory of Probability and Statistics II	3
3.	Coar		ourse		0
5.	a.			s. ent Majors:	
	a.				
				e following courses:	0
			938	Latent Variable and Structural Equation Modeling	3
			939	Seminar in Educational Measurement	3
		CEP	982	Seminar in Counseling, Educational Psychology	0
			0040	and Special Education	3
		CEP	991B		4
		OTT	997	Research Design.	4
	b.			Advanced Topics in Statistics	3
	D.			5	
				e following courses:	
			938	Latent Variable and Structural Equation Modeling	4
		CEP	982	Seminar in Counseling, Educational Psychology	
				and Special Education	3
		CEP	991B		-
			0045	Research Design.	3
		EC		Cross Section and Panel Data Econometrics I	3
		EC		Cross Section and Panel Data Econometrics II	3
		SIL	802	Statistical Computation	3

 STT
 825
 Sample Surveys
 3

 STT
 997
 Advanced Topics in Statistics
 3

 4.
 Successful completion and defense of the dissertation. Students must complete 24 credits of CEP 999 Doctoral Dissertation Research but may not earn more than 30

ONLINE TEACHING AND LEARNING

Graduate Certificate

credits

The Graduate Certificate in Online Teaching and Learning prepares individuals to design and teach online courses. Students learn to apply the latest theories of learning and pedagogy while acquiring skills with new multimedia and networking tools to create exciting new online learning environments. The schedule of the certificate program allows flexibility to accommodate both full-time students and working professionals.

Requirements for the Graduate Certificate in Online Teaching and Learning

				UNEDITO
1.	Compl	ete all o	of the following courses (9 credits):	
	CEP	813	Electronic Portfolios for Teaching and Learning	3
	CEP	817	Learning Technology through Design	3
	CEP	820	Teaching K-12 Students Online	3

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 advisor 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:

- A bachelor's degree in an appropriate field from a recognized educational institution, with a grade-point average of 3.0 (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 3.0;
- 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:

			OKEDING
			9
	861		
CEP	862	Introduction to Individual and Group Counseling 3	
CEP	864	Career Counseling	
Rehab	ilitation	Counseling Core. All of the following courses:	18
CEP	868		
CEP	870	Foundations of Rehabilitation Counseling	
CEP	871	Cognitive and Psychological Aspects of Disability 3	
CEP	872	Social and Environmental Aspects of Rehabilitation 3	
CEP	873	Employment Strategies for Individuals with	
		Disabilities	
CEP	876		
Resear	rch and	Evaluation. All of the following courses:	6
CEP	822	Approaches to Educational Research	
CEP	877	Assessment in Rehabilitation	
Practic	um and	Internship. Both of the following courses:	15
CEP	893A	Rehabilitation Counseling Internship	
CEP			
Field p			
	CEP CEP Rehab CEP CEP CEP CEP CEP CEP Resea CEP Practic CEP CEP CEP CEP	CEP 861 CEP 862 CEP 864 Rehabilitation CEP 868 CEP 870 CEP 871 CEP 872 CEP 873 CEP 876 Research and CEP 822 CEP 877 Practicum and CEP 893A CEP 894A	CEP 862 Introduction to Individual and Group Counseling

REHABILITATION COUNSELOR EDUCATION

Doctor of Philosophy

CREDITS

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 3.3 or higher in master's degree course work in rehabilitation counseling or in a related field.
- 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 submitting applications for admission is **December 1** of each year for admission the following fall semester.

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.

	c stude	, int intus	theet the requirements speemed below.	
				CREDITS
1.			nquiry and Research. All of the following courses:	17
	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 I4	
	CEP	968	Research Methods in Counseling and School	
			Psychology	
	CEP	995	Practicum in Research Design and Data Analysis 1	
2.			ofessional Practice of Counseling. Both of the following	
	course			6
	CEP	963	Ethics in Counseling and School Psychology 3	
	CEP	969	Clinical Supervision in Counseling and School	
			Psychology	
3.			Counseling Proseminars. All of the following courses:	9
	CEP	960	Theoretical Foundations of Counseling	
	CEP	964	Practice and Profession of Rehabilitation Counseling 3	
	CEP	965	Psychosocial Bases of Disability and Rehabilitation 3	
4.			Preparation Core. All of the following course:	9
	CEP		Rehabilitation Counselor Pedagogy 3	
	CEP	944B	Teaching Practicum in Rehabilitation Counselor	
	055	0440	Education	
-	CEP		Clinical Practice Practicum in Rehabilitation Counseling 3	
5.			Development/Diversity. Two of the following courses:	6
	CEP CEP		Perspectives in Multicultural Counseling	
	CEP		Cognitive Development Across the Lifespan	
~		905	Cultural Perspectives on Learning and Development 3	
6.			7. Two courses selected with the approval of the student's	
			imittee.	
			no wish to develop additional counseling experience, prior to	
	IN CEP	'944C,	may enroll in CEP 944D Clinical Supervision Practicum in Re	enabilitation

Counselor Education, as a 3 credit elective. Successful completion and defense of the dissertation. Students may 7. not earn more than 30 credits in CEP 999 Doctoral Dissertation Re-

SCHOOL PSYCHOLOGY

search

Students interested in pursuing graduate study in school psychology must apply for admission to either the educational specialist or the doctoral program in school psychology. The initial phase of study in either of these programs is integrally related to the Master of Arts in School Psychology, which is available only to students in the Educational Specialist in School Psychology or the Doctor of Philosophy in School Psychology. The first 30 required credits of these respective degree programs fulfill the requirements of the Master of Arts in School Psychology, which students may elect to earn before continuing their course of study in either the educational specialist or the doctor of philosophy degree programs.

Master of Arts

The Master of Arts Degree in School Psychology explores the theoretical, philosophical, and professional discipline of school psychology. This program's requirements are met as an integral part of the educational specialist or doctoral program, with a planned sequence of courses and practica experiences. There is no terminal master's program.

Admission

Students interested in graduate study in school psychology should apply directly to the Educational Specialist or Doctor of Philosophy program in School Psychology. Master of Arts degree program requirements are incorporated into and are met as a part of those programs. Students do not apply separately for admission to the Master of Arts program.

Requirements for the Master of Arts Degree in School Psychology

The program is available only under Plan B (without thesis). The student must complete a total of 30 credits distributed as follows: A minimum of 15 credits in school psychology courses at the 800-level or above.

- 2. A minimum of 3 credits in child development courses at the 800-level or above.
- 3. A minimum of 12 credits in courses in areas such as learning and development, or re-
- search and evaluation, as approved by the student's guidance committee.
- 4 Completion of a final examination or evaluation.

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 or substantial course work in psychology or education to be considered for admission. A person with a master's degree in psychology or a related field may also apply for admission.

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 3.0 (B) for the last two years of undergraduate work. A person with a master's degree must have a minimum grade-point average of 3.5 (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 15th for the following fall semester.

Requirements for the Educational Specialist Degree in School Psychology

Students must meet the requirements specified below. Students who hold a Master of Arts degree in School Psychology may al-

ready meet some of these requirements. CREDITS 1. All of the following courses (33 credits): School Psychology (24 credits): All of the following courses: CEP 880 CEP 881 Intervention Discipline Roles and Functions of School Psychologists CFP 883 3 CEP 884 CEP 885 Psychoeducational Assessment and CEP 886 Intervention I Consultation in School Psychology ... CEP 889 3 CEP 918 Theories of School-Based Psychological Interventions . . . Educational Psychology (9 credits): b All of the following courses: CEP 903 Cognitive Deve Cognitive Development Across the Lifespan. 3 CEP 904 Social-Emotional Development across the Lifespan...... CEP 932 Quantitative Methods in Educational 3 Research I.... 2. Completion of an educational intervention course addressing design, delivery, and evaluation of psychoeducational interventions for at-risk youth. Course selection must be approved by the student's advisor (3 credits).

EDUCATION Department of Counseling, Educational Psychology and Special Education

- Two enrollments of the following course (6 credits): CEP 893K Practicum in School Psychology....
 Two enrollments of the following course (6 credits):
- 3 . . 3
- CEP 894K Internship in School Psychology...... Complete 12 credits of electives as approved in consultation with the 5. student's advisor

Doctor of Philosophy

The Doctor of Philosophy degree program with a major in School Psychology is designed to equip psychologists with the knowledge, skills, and dispositions necessary to provide quality psychological services to children, youth, and families in multiple settings, as well as to conduct research in related areas. The program includes a planned sequence of course work in school psychology and supporting disciplines, complimented by practica and internship experiences. Students in the program receive the training necessary to become both a certified school psychologist in Michigan, as well as a nationally certified school psychologist. Students are also license-eligible as psychologists, pending completion of state-level licensure requirements.

The Doctor of Philosophy degree in School Psychology is accredited by the Commission on Accreditation of the American Psychological Association (APA) and approved by the National Association of School Psychologists (NASP). The doctoral program is also approved the Michigan Department of Education. 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, applicants must submit both the university application forms and applicable application fee, and must have:

- A bachelor's degree in education or psychology, or in a re-1. lated field. A master's degree or a teaching certificate is not required, but evidence of experience working with children, youth, and families in school, community, agency, or research settings is desirable.
- A grade-point average of 3.0 or higher in the last two years of 2. the bachelor's degree program.
- 3. A grade-point average of 3.5 or higher in courses taken at the master's degree level or beyond.
- 4. Professional goals and interests compatible with the program objectives and philosophy as evident in an applicant's statement of Professional Goals and Experiences, as judged by the faculty.
- 5. Strong personal recommendations from individuals who are knowledgeable about the applicant's academic performance and ability to work effectively with people, as judged by the faculty.
- 6. Satisfactory scores on the Graduate Record Examination General Test. This typically means scores in the above average range.
- 7. Evidence of previous research experience such as a master's thesis or scholarly paper, work on a research project, publication in a professional journal, or presentation at a professional conference.
- 8. A writing sample.
- An on-campus, web, or equivalent interview. 9
- 10. A completed Criminal Background Statement of Understanding Form.
- 11. A resume or curriculum vita.

Persons are admitted to the program once a year with enrollment starting fall semester. The deadline for submitting applications for admission is December 1st for the following fall semester.

Requirements for the Doctor of Philosophy Degree in School Psychology

The student must meet the requirements specified below. Students who hold an Educational Specialist or a Master of Arts degree in School Psychology may already meet some of these requirements. Student's doctoral plans must be approved by faculty and be consistent with the following requirements.

CREDITS

- 1. Educational Inquiry and Research. Complete 16 credits of course work which includes quantitative methods and research design as approved by the student's guidance committee. Students must complete the following course in fulfillment of this requirement:
- CEP 995 Practicum in Research Design and Data Analysis Psychological Foundations: Complete 15 credits of course work which includes history of psychology, development across the lifespan, social aspects of behavior, cognitive aspects of behavior, and biological bases of behavior as approved by the student's guidance committee.
- 3. Theoretical Foundations. Complete 6 credits of course work which includes ethics and psychotherapy as approved by the student's guidance committee.
- School Psychology. Complete 45 credits of course work which includes assessment, intervention, consultation, behavior disorders, theoretical foundations of school psychology, and field based experience as approved by the student's guidance committee.
- 5. Family Elective. Complete 3 credits of course work which includes parenting children with disabilities or family systems as approved by the student's guidance committee.
- Internship. Complete 9 credits in a field-based internship related to school psychology that must extend over a full calendar year and consist of at least 2,000 supervised clock hours of practice.
- Successful completion and defense of the dissertation. Students may 7. not earn more than 30 credits in CEP 999 Doctoral Dissertation Research, of which 24 credits are required.

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 in elementary or secondary education 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.

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 areas of emphasis: autism spectrum disorder, or learning disabilities.

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.

A statement of professional goals that clearly describes the applicant's reasons for pursuing a master's degree and the goals that the emphasis area will help the student attain.

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:

A grade-point average of 3.0 or higher in the last 60 credit 1. hours attempted of undergraduate and all graduate courses.

- 2. A valid teaching certificate in elementary or secondary education 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 emphasis area) that is acceptable to the faculty. 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.
- A test of English language proficiency for students for whom 5. English is not a first language.

Students who are seeking certification or endorsement through these emphasis areas and who do not have a valid teaching certificate must complete the requirements for teacher certification in elementary or secondary education, in addition to meeting the reguirements for the master's degree in special education with an emphasis in autism spectrum disorder, or learning disabilities.

Students who enter the master's degree program with a valid teaching certificate in elementary or secondary education and who desire an additional endorsement in an area of special education also must meet the endorsement requirements for autism spectrum disorder, or learning disabilities.

Requirements for the Master of Arts Degree in Special Education

In addition to a formal evaluation, the student must complete one of the following areas of emphasis: autism spectrum disorder, or learning disabilities. The total number of credits required for the Master of Arts in Special Education varies according to the area of emphasis a student selects. The program is available only online and only under Plan B (without thesis).

Autism Spectrum Disorder

Two programs in autism spectrum disorders (ASD) are available; autism spectrum disorder or autism spectrum disorder with an autism spectrum disorder endorsement. All graduate-level courses are offered via a combination of web-based, video conference, and phone/video-phone technologies. Students are required to have access to the appropriate technologies and the internet. A student who, in the judgment of the faculty, has not completed appropriate courses in exceptional children or behavior management may be required to complete such courses in addition to the courses listed below

Autism Spectrum Disorder - Master of Arts with an Autism Spectrum Disorder . Endorsement

Students must complete a minimum of 30 credits if they possess a teaching certificate and an initial endorsement in special education. A student who possesses a teaching certificate and is seeking an initial endorsement in special education will be required to complete an additional 6 credits (3 credits of CEP 840 and 3 credits of CEP 893J) for a total of 36 credits. A student who earned a teaching certificate and endorsement in learning disabilities from Michigan State University can transfer 12 credits of approved course work and complete this program upon the completion of 18 credits.

All of the following courses (30 credits): 1

CEP 801A Collaboration and Consultation in Special Education . . . CEP CEP Assessment of Students with Mild Disabilities 803A Classroom and Behavior Management in the Inclusive Classroom Content-Area Instruction for Students with Mild Disabilities 841 CEP 842 CEP 843 Autism Spectrum Disorders: Characteristics and Educational Implications Applied Behavior Analysis. CEP 844 Autism Spectrum Disorders: Assessment and Intervention Autism Spectrum Disorders: Advanced Topics...... Technology and Literacy for Students with Mild Disabilities CEP CEP 845 846 CEP 850 CEP 894J Special Education Practicum: Children and Youth with Autism Spectrum Disorders .

Autism Spectrum Disorder - Endorsement only

Students must complete a total of 21 credits. The autism spectrum disorder endorsement only is available to students who already possess a special education endorsement in another disability area. Students who are seeking their initial endorsement in special education in the area of autism spectrum disorder must follow the requirements above under the heading Autism Spectrum Disorder - Master of Arts with an Autism Spectrum Disorder Endorsement.

1.	All of t	he follo	wing courses (21 credits):	
	CEP	841	Classroom and Behavior Management in the Inclusive Classroom	3
	CEP	843	Autism Spectrum Disorders: Characteristics and Educational	
			Implications	3
	CEP	844	Applied Behavior Analysis.	3
	CEP	845	Autism Spectrum Disorders: Assessment and Intervention	3
	CEP	846	Autism Spectrum Disorders: Advanced Topics	3
	CEP	894J	Special Education Practicum: Children and Youth with	
			Autism Spectrum Disorders	6

Learning Disabilities

Two programs in learning disabilities are available; Master of Arts without a learning disabilities endorsement or a Master of Arts with a learning disabilities endorsement. All graduate-level courses are offered via a combination of web-based, video conference, and phone/video-phone technologies, with the exception of the Special Education Internship, which is required for students who are seeking an endorsement. Students are required to have access to the appropriate technologies and the internet.

Learning Disabilities - Master of Arts

This program is designed for students who already have an endorsement to teach students with learning disabilities or who are seeking a master's degree that will permit them to improve their knowledge of learning difficulties and disabilities. Students who complete these requirements will not receive an endorsement in learning disabilities

Students must complete 30 credits and may be able to transfer 6 to 12 credits of course work from their post-baccalaureate program into the master's area of emphasis with advisor approval. The course work must meet the area of emphasis, department, college, and university requirements. The student's area of emphasis must be approved by the advisor

All of the following courses (30credits):

All of the following courses (Jochedits).					
	CEP	801A	Collaboration and Consultation in Special Education	3	
	CEP	803A	Assessment of Students with Mild Disabilities	3	
	CEP	804A	Literacy Instruction for Students with Mild Disabilities	3	
	CEP	840	Policies, Practices, and Perspectives in Special Education	3	
	CEP	841	Classroom and Behavior Management in the Inclusive		
			Classroom	3	
	CEP	842	Content-Area Instruction for Students with Mild Disabilities	3	
	CEP	844	Applied Behavioral Analysis	3	
	CEP	850	Technology and Literacy for Students with Mild Disabilities	3	
	TE	846	Accommodating Differences in Literacy Learners.	3	
	Elective	e in TE	or CEPSE	3	

Learning Disabilities - Master of Arts with a Learning Disabilities Endorsement

This program is designed for students who are seeking an endorsement in learning disabilities. This may be the first endorsement for a teacher who is certified in elementary or secondary education prior to entering the area of emphasis or it may be a second endorsement for a student who has an endorsement in another special education area

Students must complete 36 credits. Students who enter the area of emphasis with a teaching certificate in elementary or secondary special education may be able to transfer up to 6 credits of course work from their post-baccalaureate program into the master's area of emphasis with advisor approval. The course work must meet the area of emphasis, department, college, and university requirements. The student's area of emphasis must be approved by the advisor.

Students who enter the area of emphasis with a valid teaching certificate will be recommended for a State of Michigan teaching endorsement in learning disabilities upon completion of these requirements. The student must contact the Department of Education in other states in which they may desire to teach to determine if the endorsement is recognized.

1. All of the following courses (36 credits):

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. All of the following courses (30 creats).					
	CEP	801A	Collaboration and Consultation in Special Education	3	
	CEP	803A	Assessment of Students with Mild Disabilities	3	
	CEP	804A	Literacy Instruction for Students with Mild Disabilities	3	
	CEP	840	Policies, Practices, and Perspectives in Special Education	3	
	CEP	841	Classroom and Behavior Management in the Inclusive		
			Classroom	3	
	CEP	842	Content-Area Instruction for Students with Mild Disabilities	3	
	CEP	844	Applied Behavioral Analysis	3	
	CEP	850	Technology and Literacy for Students with Mild Disabilities	3	
	CEP	893F	Special Education Internship: Teaching Children with		
			Learning Disabilities	3	
			Ũ		
	CEP	894G	Special Education Practicum: Children and Youth with		
			Learning Disabilities	6	
	TE	846	Accommodating Differences in Literacy Learners.	3	

846 Accommodating Differences in Literacy Learners. 3

EDUCATION Department of Counseling, Educational Psychology and Special Education

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 three letters of recommendation including at least one from a professor or employer.

The applicant is required to submit the university application and applicable application fee.

Persons are admitted to the program once a year with enrollment starting fall semester only. The deadline for submitting applications is December 1 of each year for admission the following fall semester. If space is available in the program, late applications will be considered.

Requirements for the Doctor of Philosophy Degree in Special Education

Students must meet the requirements specified below:

Stu				the requirements specified below:
1.	Rese	arch M	Method	ology (21 credits):
	a.	All of	the fol	lowing courses:
		CEP	930	Educational Inquiry
		CEP	932	Quantitative Methods in Educational
				Research I
		CEP	933	
				Research II
		CEP	942	
				Intervention Research
		CEP		· · · · · · · · · · · · · · · · · · ·
	b.			ollowing courses:
		CEP	931	Introduction to Qualitative Methods in Educational Research
		ΤE	939A	Special Topics in Advanced Qualitative Methodology
		TE	939B	Advanced Qualitative Methods: Critical Ethnography
		ΤE		Advanced Qualitative Methods: Discourse Analysis.
		ΤE		Advanced Qualitative Methods: Case Studies
		TE	939E	Advanced Qualitative Methods: Humanities Oriented Research
		TE	939F	Advanced Qualitative Methods: Phenomenology
		TE		Advanced Qualitative Methods: Humanizing
				Research-Decolonizing Qualitative Inquiry
	c.	At lea	ast one	additional course in research methods.
2.	Speci	al Ed	ucation	Core. All of the following courses (15 credits):
	CEP	900) Pro	seminar in Educational Psychology and
				Educational Technology I
	CEP	925		plied Research in Special Education
	CEP	941		ademic Issues in Special Education for At-Risk
				Students
	CEP	943		Iticultural Issues in Special Education
~	CEP	949		tical Issues in Special Education
3.				, totaling 9 credits in an approved cognate area.
4.				etion and defense of the dissertation. Students may
			ore that	an 30 credits in CEP 999 Doctoral Dissertation Re-
	searc	n.		

DEPARTMENT of EDUCATIONAL ADMINISTRATION

Marilyn Amey, Chairperson

GRADUATE STUDY

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

Economics of Education: Graduate Specialization Educational Leadership: Doctor of Education Education Policy: Doctor of Philosophy Higher, Adult, and Lifelong Education: Master of Arts
Doctor of Philosophy
K–12 Educational Administration:
Master of Arts
Doctor of Philosophy
Student Affairs Administration:
Master of Arts
Teaching and Learning in Postsecondary Education:
Graduate Certificate
Urban Education:
Graduate Certificate
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Students who are interested in obtaining school administrator or central office administrator 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 advisor to ensure that they complete the required courses.

Students seeking Graduate Certificates in Teaching and Learning in Postsecondary Education or Urban Education must consult with the certificate coordinator to ensure that they complete an approved program of study.

GRADUATE SPECIALIZATION IN ECONOMICS OF EDUCATION

The Graduate Specialization in Economics of Education, which is administered by the College of Education, is designed to provide students with advanced statistical training and understanding of the application of these methods to key educational topics, with particular emphasis on use of economic methods and theories.

The specialization is available as an elective to students who are enrolled in doctoral degree programs at Michigan State University. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the doctoral degree. The students program of study must be approved by the advisor for the specialization.

Requirements for the Graduate Specialization in Economics of Education

CREDITS

Students must complete the following with a 3.5 grade-point average in courses across the specialization (18 credits):

1. Both of the following courses with a grade of 3.0 or higher in each course: (6 credits):

	(o orodito).				
	EC	820A	Econometrics IA		
	EC	820B	Econometrics IB		
2.	One ac	ditiona	I 3-credit graduate-level advanced statistics or economet-		
	rics co	urse as	determined by the student's guidance committee.		
3.			owing courses (3 credits):		
	AFRE	805	Microeconomic Analysis		
	EC	812A	Microeconomics I		
4.	Both o	f the fol	lowing courses (6 credits):		
	EAD	948	Advanced Economics of Education		
	EAD	949	Advanced Seminar in Education Policy		
5.	Compl	ete a si	ubstantial research paper on a topic in the economics of		
			en e		

education as approved by the student's guidance committee.

EDUCATIONAL LEADERSHIP

Doctor of Education

The innovative Doctor of Education in Educational Leadership (Ed.D.) aims to achieve high levels of quality and relevance in the preparation of executive educational leaders. In addition, the program seeks to engage faculty and students in the broader Michigan community with the intention of working collaboratively toward effective schools, vital communities, and a re-invigorated state. It is a specialized program in advanced educational leadership practice and is tailored to the needs and interests of targeted students. The program has multiple goals: promoting continuous improvement of schools systems in order to best serve all students; guiding assessment of the politics and policy contexts of schooling; providing opportunities and training for civic engagement with professional and community partners in order to deliberate issues of mutual concern democratically; and engaging in rigorous collaborative research through implementation and evaluation of a creative community action project or through a project designed in consultation with a client organization.

The program is designed for educators and other practitioners who have aspirations for improving their own leadership practice, for developing leadership capacity within their organizations and communities, and for making significant contributions to their local communities and to the future of Michigan. Most graduates with this degree will pursue system-level leadership in various education agencies, including local and regional school districts, state educational agencies, and professional educational associations. Graduates will also be prepared to teach in community colleges and regional universities, or to hold adjunct or clinical positions in research universities, or other types of educational leadership positions. Graduates of the program with appropriate prior credentials and experience will qualify for the Michigan Central Office Administrator endorsement.

The program consists of a minimum of 45 credits of graduate study beyond the master's degree. In addition to meeting the requirements of the College of Education, students must meet the requirements specified below.

Admission

Applicants to the Doctor of Education degree in Educational Leadership should have leadership experience in a school and hold a master's degree in education or its equivalent. Students who wish to qualify for the Michigan Central Office Administrator endorsement by completing the Doctor of Education degree in Educational Leadership should already hold the School Administrator credential before applying to the program.

Applicants must:

- 1. submit a goal statement.
- 2. submit three letters of recommendation from persons who are acquainted with the applicant's academic and professional experience, performance, and potential.
- 3. submit scores earned on the Graduate Record Examination (GRE).

Applicants may be required to participate in an interview and to submit a sample of scholarly or professional writing.

Requirements for the Doctor of Education Degree in Educational Leadership

				CREDITS
1.	All of th	e follo	wing core courses (18 credits):	
	EAD	920	Political Economy of Schooling	3
	EAD	921	Educational Leadership and Transformation	3
	EAD	922	Analyzing Education Systems	3
	EAD	923	Organizing for Learning.	3
	EAD	926	School Finance and Operations	3
	EAD	927	Enacting Systemic Improvement.	3
2.	All of th	e follo	wing inquiry and research courses (18 credits):	
	EAD	924	Data and Decisions	3
	EAD	929	Collaborative Inquiry	3
	EAD	981A	Capstone I	4
	EAD		Capstone II	4
	EAD	982A	Capstone Seminar I	2
	EAD	982B	Capstone Seminar II	2
3.	Both of	the fol	lowing courses (9 credits):	
	EAD	980	Engaged Educational Leadership	6
	EAD	990	Independent Study	3
4.	Comple	etion of	the comprehensive examination portfolio.	

EDUCATION POLICY

Doctor of Philosophy

The Doctor of Philosophy in Education Policy is designed for persons who show promise of becoming scholars and leaders in state, national, and international policy communities. The program prepares scholars and leaders to understand, evaluate, and implement education policy analysis in universities, research organizations, government agencies, philanthropies and other institutions in the public and private sectors. Students will have opportunities to develop analytical perspectives on current issues in educational policy and to investigate how these issues shape organizations, practice and learning. Students will acquire an understanding of different contexts for educational-policy formation. They will master the skills essential for policy research and analysis.

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

Admission

Persons who hold bachelor's or master's degrees from a variety of disciplines may apply for admission to this doctoral program. Applicants with limited backgrounds in education or the underlying policy disciplines of political science, sociology, history, and economics, may be required to complete collateral work that will *not* count toward the degree requirements.

The review of applications focuses on previous study and experience, compatibility between academic and professional goals and this doctoral program, and demonstration of potential for successful advanced degree work.

Requirements for the Doctor of Philosophy Degree in Education Policy

Students must complete the requirements specified below:

	· · · · · · · · · · · · · · · · · · ·	CREDITS
1.	Education Policy Core. All of the following courses:	12
	EAD 942 Économics of Education	
	EAD 943 Politics of Education 3	
	EAD 944 Social Context of Education	
~	EAD 947 Comparative International Education Policy	
2.	Education Inquiry and Research.	101.10
	a. All of the following courses:	10 to 12
	CEP 930 Educational Inquiry	
	EAD 946A Regression Analysis for Education Policy3	
	EAD 946B Econometric Analysis for Education Policy 3	
	EAD 995 Research Practicum in Educational	
	Administration 1 to 3 b. One 3-credit qualitative research methods course.	
~		10
3.	Concentration in Education Policy	12
	Four courses in disciplinary or policy studies selected to provide the stu-	
	dent with competence in a specialized area of research, including at	
	least 3 credits of EAD 949 Advanced Seminar in Education Policy.	0.4
4.	Dissertation	24
	Successful completion of 24 credits of Doctoral Dissertation Research.	
	Students may not earn more than 30 credits in Doctoral Dissertation Re-	
	search.	

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:

				01.20110		
1.	Both of the following courses:					
	EAD	840	Inquiry in Postsecondary Education			
	EAD	868	Proseminar in Higher and Adult Education			
2.	Three	of the f	ollowing courses:	9		
	EAD	801	Leadership and Organizational Development3			
	EAD	805	Administration in Higher Education			
	EAD	860	Concept of a Learning Society			
	EAD	861	Adult Learning			
	EAD	866	Teaching in Postsecondary Education			
	EAD	870	Foundations of Postsecondary Education			
	EAD	876	Budgeting and Finance in Higher Education			
	EAD	877	Program Planning and Evaluation in			
			Postsecondary Contexts.	3		
3.	Fifteen	n additio	onal credits of which 9 credits must be in Educational			
	Admin	istratior	n courses within the Higher, Adult and Lifelong Education			

program. 4. Pass a final certifying examination.

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.

CDEDITO

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

				CREDITS
1.	Educ		Inquiry and Research.	
	a.		llowing course:	
		CEP	930 Educational Inquiry	3
	b.		uate level course in quantitative methods approved by the	
			it's guidance committee.	
	C.		duate level course in advanced qualitative methods ap-	
		proved	I by the student's guidance committee.	
	d.	A rese	arch practicum to be taken after the student has completed	
		the co	urses referenced in items 1.a., 1.b., and 1. c. above:	
		EAD	995 Research Practicum in Educational	
			Administration	3
2.	Core	Course	es. All of the following courses:	
	EAD	960	Proseminar in Postsecondary Education	3
	EAD	966	Students in Postsecondary Education	3
	EAD	967	Policy Development and Analysis in Postsecondary	
			Education	3
	EAD	968	Teaching, Learning and Curriculum in Postsecondary	
			Education	3
	EAD	970	Organization and Administration in Postsecondary	
			Education	3
3.			ducational Administration Courses.	
	Eight	teen ac	Iditional credits in 800-level Educational Administration	
	cours	ses or a	bove which deal with issues of postsecondary education.	
4.	Succ	essful c	completion and defense of the dissertation. Students must	
	comp	olete 24	credits but may not earn more than 30 credits in EAD 999	

Doctoral Dissertation Research.

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, which must be approved by the student's academic advisor.

		CREDITS
1.	A core of selective experiences that builds on four critical	
	leadership capacities: (1) vision building, interpersonal and	
	political skills; (2) organizational analysis and operation;	
	(3) research and inquiry and (4) engagement with families	
	and communities. In addition, the core experience will include	
	field-based leadership internships	24
2.	A minimum of 6 credits in an area of emphasis focused on	
	professional interest	6
3.	Pass a final certifying examination.	

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.

1. Educational Inquiry and Research:

		CREDITS
a.		
	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 gualitative 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
K-12		
a.	One of the following courses:	
	EAD 990 Independent Study	
b.	At least 12 credits in other K-12 educational administration	
	courses approved by the student's guidance committee.	
Cond		
	aral research. These courses should be ergenized around a specific	
docte	oral research. These courses should be organized around a specific le, must be selected with an advisor's guidance, and must be ap-	
	b. c. K–12 a. b. Cond	CEP 930 Educational Inquiry CEP 932 Quantitative Methods in Educational Research I b. One of the following courses: CEP 933 Quantitative Methods in Educational Research I A 900-level course in advanced qualitative methods approved by the student's guidance committee. 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 A. One of the following courses: EAD EAD 990 Independent Study

- theme, must be selected with an advisor's guidance, and must be approved by the student's guidance committee. These courses may be taken inside or outside the Department of Educational Administration.
 Successful completion and defense of the dissertation. Students may not each more than 20 credities in EAD 000 Dectational Disconting Page 1000 Page
- Successful completion and defense of the dissertation. Students may not earn more than 30 credits in EAD 999 Doctoral Dissertation Research.

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:

				CREDITS
1.	All of t	he follo	owing courses:	25
	EAD	805	Administration in Higher Education	í
	EAD	870	Foundations of Postsecondary Education	
	EAD	871	Collegiate Contexts for Teaching and Learning	i
	EAD	873	The College Student Experience	
	EAD	874	Student Affairs in Collegiate Settings I	i
	EAD	875	Student Affairs in Collegiate Settings II	
	EAD	889	Research and Assessment in Student Affairs	i
	EAD	893	Professional Development Seminar in Student Affairs 4	
2.	Two o	r three	courses selected from EAD course offerings approved by	
	the stu	udent's	academic advisor	6 to 9
3.	Two o	r three	additional courses in such areas as academic	
	advise	ment, t	training and development, communications, and	
	couns	eling a	pproved by the student's academic advisor	6 to 9
		•		

GRADUATE CERTIFICATE IN TEACHING AND LEARNING IN POSTSECONDARY EDUCATION

The Graduate Certificate in Teaching and Learning in Postsecondary Education is a professional development program designed to assist current educators and practitioners from a variety of professional settings and disciplines who seek to enhance their understanding of teaching and learning issues for adult learners. The flexible schedule of the graduate certificate program accommodates both full-time students and working professionals. The certificate is available only online.

Admission

To be considered for admission students must possess a 3.0 grade-point average in the final two years of undergraduate study. Students will submit a personal statement indicating their interest in the program and how it fits within their professional goals. Applicants whose grade-point average is below 3.0 during the final two years of undergraduate study may be considered for admission to the program on a provisional basis.

Requirements for the Graduate Certificate in Teaching and Learning in Postsecondary Education

				CREDITS
Sti	udents	must c	complete the following (9 credits):	
1.	The fo	llowing	course (3 credits):	
	EAD	861	Adult Learning	3
2.	At leas	st two o	of the following courses (6 credits):	
	EAD	860	Concept of a Learning Society	3
	EAD	863	Training and Professional Development	3
	EAD	866	Teaching in Postsecondary Education	3
	EAD	871	Collegiate Contexts for Teaching and Learning	3
	EAD	877	Program Planning and Evaluation in Postsecondary	
			Contexts	3
	EAD	878	Education in the Digital Age	3

GRADUATE CERTIFICATE IN URBAN EDUCATION

The Graduate Certificate in Urban Education, which is administered by the Department of Educational Administration in the College of Education, is designed for students who aspire to understand and focus on issues involving urban education including the racial academic achievement gap; allocation of resources for urban schools: contexts of social, cultural, and economic differences; and the possibilities of transforming the ways in which urban school children learn to be active and engaged participants in their communities.

The certificate is available as an elective to students who are enrolled in master's or doctoral degree programs with approval from the urban education faculty. Students must meet the requirements of the certificate specified below, in addition to the requirements for the student's primary degree program.

Requirements for the Graduate Certificate in Urban Education

Students must complete the following (12 credits):

0.0								
1.	The following course (3 credits):							
	EAD	901	Urban Education: An Historical Overview	3				
2.	Three	of the	following courses (9 credits):					
	CEP	943	Multicultural Issues in Special Education	3				
	EAD	822	Engaging Diverse Students and Families	3				
	EAD	830	Issues in Urban Education: Racial Achievement Gap	3				
	EAD	926	School Finance and Operations	3				
	EAD	940	Organizational Analysis of Education	3				
	TE	961	Urban Politics, Education, and School Reform	3				
	TE	962	Teachers and Teaching in Urban Contexts	3				
	TE	963	Critical Race Theory in Education	3				
3.	Stude	nts mus	st complete a research paper on a topic in urban education					
	which	may fo	ocus on issues related to policy, curriculum, leadership or					
	couns	elina a	s they pertain to understanding problems and strengths in					
	urban	school	s. The research paper topic must be pre-approved by the					
			tion faculty and completed while enrolled in one of the					
			d above.					
	couros							

DEPARTMENT of **KINESIOLOGY**

Alan L. Smith, Chairperson

UNDERGRADUATE PROGRAM

The department offers Bachelor of Science degree majors in Kinesiology and in Athletic Training with an emphasis on relationships between physical activity in human beings and various sciences. Students will gain an understanding of the development, interpretation, application, and dissemination of knowledge that relates physical activity to human well-being.

ATHLETIC TRAINING

The major in athletic training prepares students to work with athletes, physicians, and coaches to ensure the health care and well-being of the competitive and recreational athlete. The Michigan State University athletic training major blends clinical and academic learning experiences. Students will gain knowledge and skills in evaluation and the treatment and rehabilitation of athletic injuries and will be prepared to organize and manage athletic training programs. The Michigan State University student majoring in athletic training is exposed to state-of-the-art philosophies, equipment, and research.

A student in this major will complete a two-year athletic training curriculum while working in a variety of clinical settings. These settings include on-campus rotations within the athletic department, high schools, and various clinics. Through clinical education, the student will encounter experiences requiring immediate decision-making, physician consultation, injury evaluations, and communications with coaches, student-athletes, and approved clinical instructors. Students who complete this major will be eligible to take the Board of Certification (BOC) examination.

The Bachelor of Science degree in Athletic Training is designed to prepare students for job opportunities in collegiate, professional, clinical, high school, and industrial settings. Students who graduate from this program may enter professional physical therapy programs, medical programs, or graduate studies in kinesiology. The degree is accredited by the Commission on Accreditation of Athletic Training (CAATE).

Admission

CREDITS

Admission to the athletic training major is competitive and requires completion of at least 31 credits. A limited number of students are admitted. The deadline for application to the major is February 1. The decision regarding admission to the major is based on the following criteria:

- Submission of the following: (a) an application to the major in 1. athletic training; (b) an essay expressing reasons for selecting the field of athletic training; and (c) three letters of personal reference.
- Completion of the following prerequisite courses with a 2. grade-point average of 2.5 in these courses:
 - KIN 125 First Aid and Personal Safety KIN
 - 126 KIN 127 ...1
 - KIN 227 Observations and Introduction to Clinical Skills
 - 2
 - in Athletic Training..... Clinical Rotation and Skills: Introduction in KIN 228 KIN
- 3. A minimum grade of 2.00 in each of the following courses: Chemistry 141, Kinesiology 216, Mathematics 103, Kinesiology 251, and Physiology 250.
- 4. University grade-point average of 2.5 or above.
- 5. Interview with the Michigan State University Athletic Training Admissions Board.
- Space availability in the formal clinical curriculum sites. 6.

Requirements for the Bachelor of Science Degree in Athletic Training

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 Athletic Training.

Students enrolled in the Athletic Training 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, Kinesiology 251, and Physiology 250. The completion of Chemistry 161, and Kinesiology 251 satisfies the laboratory requirement. Chemistry

141 and 161, Kinesiology 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 Athletic Training major is met by completing Kinesiology 345. That course is referenced in item 2. b. below. ITS

				CREDI13
The f			irements for the major:	
a.	All of th	18		
	CEM	141	General Chemistry	
	KIN	216	Applied Human Anatomy	
	KIN	251	Principles of Human Movement	
	MTH	103	College Algebra	
	PSL	250	Introductory Physiology	
b.			owing courses with a minimum grade-point average	
2.				40
	KIN	121	The Healthy Lifestyle	10
	KIN	125	First Aid and Personal Safety	
	KIN	125	Introduction to Athletic Training	
	KIN	120		
	KIN	173	Taping and Bracing in Athletic Training1	
			Foundations of Kinesiology	
	KIN	217	Applied Human Anatomy Laboratory1	
	KIN	227	Observations and Introduction to Clinical Skills	
			in Athletic Training	
	KIN	228	Clinical Rotation and Skills: Introduction in Athletic Training1	
	KIN	250	Measurement in Kinesiology	
	KIN	250 310		
		310	Physiological Bases of Physical Activity 3	
	KIN	320 330	Pathology of Sports Injury	
	KIN		Biomechanics of Physical Activity	
	KIN	345	Sport and Exercise Psychology (W)	
	KIN	360	Physical Growth and Motor Behavior	
	KIN	411	Laboratory Experiences in Exercise Physiology 2	
	KIN	465	Adapted Physical Activity 3	
C.			g course:	1
	CEM	161	Chemistry Laboratory I	
d.			owing courses with a minimum grade-point	
			.0:	15
	KIN	421	Lower Body Injury Evaluation	
	KIN	422	Rehabilitation of Athletic Injuries	
	KIN	423	Therapeutic Modalities	
	KIN	425	Organization and Administration of	
			Athletic Training	
	KIN	426	Upper Body Injury Evaluation	
e.	One 3-	-credit	, 400-level course in the Department of Kinesiology	
	as app	roved	by the Director of Athletic Training.	
f.	Succes	ssful c	ompletion of the final clinical rotation, with a	
	minimu	um gra	ade of 2.0 in the following:	4
	KIN	427	Clinical Rotations in Athletic Training	
g.	A cano		must meet a minimum clinical evaluation score as	
0			he program director based on performance in clinical	

required by the program director based on performance in clinical rotation experiences and competency

Meet professional standards as designated by the department. h.

KINESIOLOGY

2

The major in kinesiology places emphasis on the attainment of disciplinary knowledge in the anatomical, biomechanical, developmental, physiological, and neurological aspects of physical activity, explores how physical activity relates to human well-being, and offers an area of emphasis in exercise science.

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

Admission

Admission to the major requires completion of at least 28 credits acceptable to the College with a cumulative university grade-point average of 2.0 or above and a minimum grade of 2.0 in each of the following courses: Chemistry 141, Kinesiology 216, Kinesiology 251, Mathematics 103, and Physiology 250.

Requirements for the Bachelor of Science Degree in Kinesiology

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

Students 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, Kinesiology 251, and Physiology 250. The completion of Chemistry 161, and Kinesiology 251 satisfies the laboratory requirement. Chemistry 141 and 161, Kinesiology 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 345 or 445. Those courses are referenced in item 2.d. below. CREDITS

				ONCEDITO		
The f	he following requirements for the major:					
a.	All of the	ne follo	owing with a minimum grade of 2.0 in each course: .	18		
	CEM	141	General Chemistry			
	KIN	216				
	MTH	103				
	KIN	251	Principles of Human Movement4			
	PSL	250	Introductory Physiology4			
b.	All of the	ne follo	owing courses with a minimum grade-point average			
	of 2.0:			18		
	KIN	121	The Healthy Lifestyle			
	KIN	173	Foundations of Kinesiology			
	KIN	250	Measurement in Kinesiology			
	KIN	310	Physiological Bases of Physical Activity			
	KIN	330	Biomechanics Physical Activity			
	KIN	360	Physical Growth and Motor Behavior			
c.	The fol	lowing	g course:	1		
	CEM	161	Chemistry Laboratory I			
d.	One of	the fo	llowing courses:	3		
	KIN	345	Sport and Exercise Psychology (W)			
	KIN	445	Sport and Physical Activity in Society (W)3			
e.	Compl	etion o	of an approved cognate in kinesiology			
	(a mini	mum (of 12 credits)	12		
f.			experience approved by the Kinesiology Internship			
			from one of the following courses:	3 to 6		
	KIN	492	Internship: Non-Physiologically Based	0100		
	KIN	492	Internship: Physiologically Based			
	I XII N	-33	Internation Print Tysiologically Dased			

MINOR IN COACHING

The Minor 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.

The educational objectives of the Minor in Coaching are for students to acquire:

- Knowledge and understanding of the growth and develop-1. ment 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 minor may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Minor in Coaching

				CREDITS
Th	e stude	nt mus	st complete:	
			wing courses (17 credits):	
	KIN	173	Foundations of Kinesiology	3
	KIN	345	Sport and Exercise Psychology (W)	3
	KIN	360	Physical Growth and Motor Behavior	3
	KIN	400	Principles of Coaching I	4
	KIN	401	Principles of Coaching II	4
2.	One of	the fol	lowing courses (3 credits):	
	ANTR	350	Human Gross Anatomy for Pre-Health Professionals	3
	KIN	216	Applied Human Anatomy	3
3.	One of		lowing courses (2 credits):	
	KIN	300A	Coaching Baseball	2
	KIN		Coaching Soccer	2
	KIN	300D	Coaching Basketball	2
	KIN		Coaching Football	2
	KIN	402		2
	KIN	490	Independent Study	2
	KIN	494	Fieldwork	2
			d toward the requirements for the Minor in Coaching, the	
	conten	t of Kin	esiology 490 must focus on coaching. An academic advi-	
	sor in t	he Depa	artment of Kinesiology must approve in writing the content	
	of this	course	before the student enrolls in the course.	
4.	Cardio	pulmo	nary Resuscitation (CPR) and First Aid Certification.	
	Churden		at a basis the set the set of the state of the set of t	

Students must obtain these two certifications through a reputable source for CPR and first aid. Reputable sources include but are not limited to the American Red Cross, American Heart Association, and the National Safety Council. The certification must be current at the time of the student's date of graduation. These certifications involve additional costs to the student.

MINOR IN HEALTH PROMOTION

The Minor 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 minor, 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 minor may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Minor in Health Promotion

				CREDITS	
Th	e studer	18			
1.	 All of the following courses (9 credits): 				
	HNF	150	Introduction to Human Nutrition	i i	
	KIN	121	The Healthy Lifestyle	i i	
	PSY	320	Health Psychology		
2.	At leas	t 9 cred	dits from the following courses:		
	ANP	270	Women and Health: Anthropological and		
			International Perspectives		
	ANP	370	Culture, Health, and Illness		
	CEP	260	Dynamics of Personal Adjustment	i	
	CEP	261	Substance Abuse		
	EEM	260	World Food, Population and Poverty		
	EPI	390	Disease in Society: Introduction to Epidemiology		
			and Public Health		
	GEO	435	Geography of Health and Disease 3		
	HDFS	225	Lifespan Human Development in the Family		
	HDFS		Interpersonal Relationships in the Family		
	HDFS	445	Human Sexuality		
	HM	101	Introduction to Public Health		
	HNF	102	Dietary Supplements: Evidence vs. Hype		
	HNF	310	Nutrition in Medicine for Pre-Health Professionals 3		
	HNF HNF	385 406	Public Health Nutrition		
	HNF	406	Global Foods and Culture		
	HNF	415			
	PHL	457 344	Sports and Cardiovascular Nutrition		
	PHL	453	Ethical Issues in Global Public Health		
	PSY	333	The Neurobiology of Food Intake and Overeating		
	SOC	475	Health and Society		
	000	-10			

GRADUATE STUDY

The department offers programs in kinesiology leading to the Master of Science and Doctor of Philosophy degrees and programs in sport coaching and leadership leading to a Graduate Certificate and a 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 Infancy and Early Childhood. For additional information, refer to the statement on Interdepartmental Graduate Specializations in Infancy and Early Childhood 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 in a variety of sports, health, and educational contexts. 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.

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

Athletic Training Coaching Cognitive and Motor Neuroscience Exercise Physiology Psychosocial Aspects of Sport and Physical Activity Sport Administration Strength and Conditioning Student Athlete Development

For each student, one of these eight areas of study is designated as the concentration.

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 master's program, applicants must have completed an undergraduate degree. Factors considered in admissions decisions include (a) clarity of applicant's professional goals; (b) relationship between the program and the applicant's goals; c) previous academic experience and performance as indicated by transcripts from previous degrees including a competitive cumulative grade-point average of 3.0 or higher on a 4.0 scale; (d) competitive scores on the Graduate Record Examination (and Test of English as a Foreign Language for international students); (e) three letters of recommendation.

Requirements for the Master of Science Degree in Kinesiology

Breadth requirement. Students who have not completed an undergraduate degree in kinesiology (or similarly named program such as physical education or exercise science) must complete a minimum of 6 credits of Kinesiology courses representing at least two of nine different disciplinary areas (adapted physical activity, athletic training, biomechanics, coaching, exercise physiology, growth and motor development, psychosocial aspects of sport and physical activity, sport administration, student athlete development) outside of the student's major area/concentration, as approved by the student's guidance committee. Credits earned in 200 or 300 level courses may be used to fulfill the breadth requirement, but will not count toward the master's degree.

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

	OKEDITO
Requirements for Plan A and Plan B:	18
 Required core course (3 credits): 	
KIN 871 Research Methods in Kinesiology	3
2. A minimum of 9 credits of kinesiology graduate level courses in the stu-	
dent's concentration as approved by the student's guidance committee.	
Additional Requirements for Plan A:	12
 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

- Additional credits in courses approved by the student's guidance committee (3 credits).
- 893 Internship in Kinesiology 4 to 6 KIN 897
- Project in Kinesiology Final certifying examination. 2 Students who complete Kinesiology 893 or 897 are required to pass an oral certifying examination.

Students who do not complete Kinesiology 893 or 897 are required to pass a written certifying examination.

SPORT COACHING AND LEADERSHIP

The Master of Science degree in Sport Coaching and Leadership provides opportunities for students to develop expertise in learning and using scientific knowledge and best practices related to coaching and developing athletes and leading sports programs at the intercollegiate, interscholastic, community sports, and university levels. It facilitates interdisciplinary knowledge in various issues related to coaching across the lifespan. Practical experiences are available at high schools, within the university athletic department, and in other sports-related organizations and agencies.

Admission

To be considered for admission to the Master of Science degree in Sport Coaching and Leadership students must:

- have completed a bachelor's degree in the United States or 1. its equivalent from an accredited institution.
- 2. have a minimum 3.0 grade-point average.
- 3. submit one letter of recommendation from a current colleague or supervisor.
- 4. submit a statement of professional goals that clearly describe the applicant's reasons for pursuing the master's degree and the goals that the degree will help them attain.

Upon acceptance, students must submit evidence of current CPR, first-aid, and blood borne pathogen training and maintain such certification throughout their enrollment in the program.

Applications are reviewed by faculty who look for indications of high probability of success. Factors that are significant in determining admission are:

- A grade-point average of 3.0 or higher. 1.
- 2. Professional goals that are consistent with the objectives of the master's program.
- 3. Evidence of a philosophical understanding of developmentally appropriate sport experiences.

Requirements for the Master of Science Degree in Sport Coaching and Leadership

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

1.	All of	the follo	owing courses (30 credits):	
	KIN	829	Safety and Injury Control.	3
	KIN	854	Legal and Administrative Issues for Administrators	
			and Coaches	3
	KIN	855	Psychosocial Bases of Coaching Athletes	3
	KIN	856	Physical Bases of Coaching Athletes	3
	KIN	857	Promoting Positive Youth Development	
			through Sport	3
	KIN	865	Stages of Athlete Development.	3
	KIN	868	Skill Development in Athletes	3
	KIN	872	Coaching Science: Applied Research	3
	KIN	880	Sport Leadership Practicum	3
	KIN	896	Integrative Capstone in Sport Coaching and	
			Leadership	3
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GRADUATE CERTIFICATE IN SPORT COACHING AND LEADERSHIP

The Graduate Certificate in Sport Coaching and Leadership provides opportunities for students to develop expertise in learning and using scientific knowledge and best practices related to coaching and developing athletes and leading sports programs at the intercollegiate, interscholastic, and community sports levels. It facilitates interdisciplinary knowledge in various issues related to coaching across the lifespan. The certificate is available only online.

Admission

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To be considered for admission to the Graduate Certificate in Sport Coaching and Leadership students must:

- 1. have completed a bachelor's degree.
- 2. complete the Intent to Enroll form if you are currently enrolled in a graduate degree program at Michigan State University.

Students who are not enrolled at Michigan State University must:

- submit a university application and application fee. 1.
- provide transcripts from all previous institutions of higher ed-2. ucation.
- 3. submit one letter of recommendation from a current colleague or supervisor.
- 4. submit a statement of professional goals that clearly describe the applicant's reasons for pursuing the certificate and the goals that the certificate will help them attain.
- 5. a test of English language proficiency for students for whom English is not a first language.

Upon acceptance, students must submit evidence of current CPR, first-aid, and blood borne pathogen training and maintain such certification throughout their enrollment in the program.

Applications are reviewed by faculty who look for indications of high probability of success. Factors that are significant in determining admission are:

- 1 A grade-point average of 3.0 or higher in the last two years of all undergraduate and graduate course work.
- 2. Professional goals that are consistent with the objectives of the graduate certificate.
- 3. Evidence of a philosophical understanding of developmentally appropriate sport experiences.

Requirements for the Graduate Certificate in Sport Coaching and Leadership

CREDITS

Students must complete 9 credits from the following courses: One of the following courses for the Psychosocial Competency 1.

- (3 credits): . KIN Psychosocial Bases of Coaching Athletes 855
- KIN 857 KIN 865
- One of the following courses for the Physical Competency
- 2. (3 credits): KIN 856 3.
- (3 credits): KIN 829

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.

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

Athletic Training Cognitive and Motor Neuroscience Exercise Physiology Psychosocial Aspects of Sport and Physical Activity

For each student, one of these four areas of study is designated as the concentration.

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

Ordinarily, to be considered for admission into the doctoral program, a master's degree is required; however, in cases of exceptional scholarly promise, a student may enter the doctoral program following the completion of the undergraduate degree. Factors considered in admissions decisions include (a) clarity of applicant's goals and research interests; (b) relationship between the program and the applicant's goals and research interests; (c) previous academic experience and performance as indicated by transcripts from previous degrees (a competitive cumulative grade-point average of 3.0 or higher on a 4.0 scale); (d) competitive scores on the Graduate Record Examination (and TOEFL for international students); (e) evidence of research competence such as a master's thesis, senior research project, or other research experience; and (f) three letters of recommendation. An interview with a committee of faculty members is strongly recommended.

Requirements for the Doctor of Philosophy Degree in Kinesiology

Breadth requirement. Students who have completed a previous degree in kinesiology, or similarly named program such as physical education or exercise science, must complete a minimum of 6 credits of kinesiology courses at the 800-900 level outside of the student's major area/concentration. Students who have not completed a previous degree in kinesiology must complete a minimum of 9 credits of kinesiology courses at the 800-900 level representing at least two different disciplinary areas (adapted physical activity, athletic training, biomechanics, exercise physiology, growth and motor development, psychosocial aspects of sport and physical activity) outside of the student's major area/concentration. Courses used to satisfy the breadth requirement must be approved by the student's guidance committee. Courses that are used to satisfy the requirements referenced in the area below titled Educational Inquiry and Research may not be used to satisfy this requirement.

The student must complete a minimum of 60 credits and meet the requirements specified below: 1. Educational Inquiry and Research.

- KIN 995 Research Practicum in Kinesiology.....
 b. Complete 9 credits of 800-900 level research methods courses approved by the student's guidance committee.
- 2. Area of Concentration.

A minimum of four courses at the 800–900 level totaling at least 12 credits in *one* of the six major areas of study referenced above. At least 6 of the 12 credits must be in Kinesiology courses. Courses in the student's concentration must be approved by the student's guidance committee. Courses that are used to satisfy the requirements referenced in item 1. above may *not* be used to satisfy this requirement.

3. Related Studies.

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 concentration. *Both* the cognate *and* the related courses must be approved by the student's guidance committee.

- 4. Successful completion of the research practicum.
- Successful completion and defense of the dissertation. The dissertation must be in the student's concentration. Students may not earn more than 30 credits in KIN 999 Doctoral Dissertation Research.
- Teaching. Competency in teaching the subject matter of the student's concentration to undergraduate students or to an outreach audience, as judged by the student's guidance committee. This requirement may be met as part of a graduate teaching assistantship assignment.

DEPARTMENT of TEACHER EDUCATION

Margaret S. Crocco, 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 for students who plan to teach in elementary schools. 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 in the section on *TEACHER CERTIF-ICATION* below.

Students who plan to teach in secondary schools should refer to the section on "MSU Subject Matter Teaching Majors for Secondary Teacher Certification" in the section on *TEACHER CER-TIFICATION* below.

Students who wish to obtain a special education endorsement in learning disabilities on an elementary teaching certificate should see the *Counseling, Educational Psychology, and Special Education* section of this catalog for information about majoring in Special Education. These students must be admitted to the Elementary Teacher Certification Program and complete the Planned Program for Elementary Education and one of the required elementary teaching majors in addition to other requirements.

Students who wish to obtain an early childhood endorsement on an elementary teaching certificate should see the *Human Development and Family Studies* section of this catalog for information about majoring in Child Development. These students must be admitted to the Elementary Teacher Certification Program and complete the Planned Program for Elementary Education and one of the required elementary teaching majors in addition to other requirements.

CREDITS

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Admission to the Major

To earn a Bachelor of Arts Degree in Education, students must apply and be admitted to the Teacher Certification Program administered by the Department of Teacher Education in the College of Education (refer to Admission to the Teacher Certification Program under Teacher Certification in the Department of Teacher Education section of this catalog). Information about admission requirements and the application process can be found at http://education.msu.edu/academics/undergraduate/apply-teacher-prep.asp.

Requirements for the Bachelor of Arts Degree in Education

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 Integrative Studies in Arts and Humanities 208, 209, 241A, 241C, 241D, 241E, or 241F referenced in item 2. b. (7) below may also satisfy the University's

elective requirement in Integrative Studies in Arts and Humanities. Students who are admitted to the Elementary Teacher Certification Program and who choose to complete the requirements for the Integrated Science Teaching Major may complete an alternate track to Integrative Studies in Biological and Physical Sciences that consists of Biological Science 161 and 171 and Chemistry 141, all of which are required courses in the Integrated Science Teaching Major.

The completion of Mathematics 201 referenced in item 2. b. (1) 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 and 404. Those courses are referenced in item 2. a. (1) below

2. The following requirements for the major:

CREDITS

c.

					CREDITS
a.	Pro	fessior	nal Edu	ucation Courses:	21
	(1)			owing courses (21 credits):	
		TE	150	Reflections on Learning 3	i i
		TE	250	Human Diversity, Power, and Opportunity	
		TE	301	in Social Institutions	1
		1	501	- Elementary (W)	(
		TE	403	Teaching of Science to Diverse Learners	
				- Elementary 3	;
		TE	404	Teaching of Social Studies to Diverse	
		TE	405	Learners - Elementary	1
			400	Diverse Learners - Elementary	
		TE	406	Teaching of Mathematics to Diverse Learners	
				- Elementary 3	
b.			•	n for Elementary Education:	20 to 30
	(1)			ollowing mathematics courses (6 credits):	
			201 202	Elementary Mathematics for Teachers I 3 Elementary Mathematics for Teachers II 3	
				ion of Mathematics 201 may also satisfy the uni-	
				ematics requirements. These courses are re-	
				e Elementary Mathematics Teaching Major in	
				0 credits count toward the Planned Program.	
				201 and 202 are a prerequisite for Teacher Ed-	
				and must be completed with a minimum grade of	
	(0)			nrollment in Teacher Education 406.	
	(2)	TE	348	g course in children's literature (3 credits): Reading and Responding to Children's	
		ΙC	540	Literature	4
		This c	ourse i	s required for the Language Arts Teaching Ma-	
		jor in	which	case 0 credits count toward the Planned	
				eacher Education 348 is a prerequisite for	
				cation 405 and must be completed with a mini-	
			grade o	of 2.0 prior to enrollment in Teacher Education	
	(2)	405.	f the fe	llowing longuage equivisition and development	
	(3)			Ilowing language acquisition and development r 4 credits):	
		CEP	345	Language and Literacy Development	
				and Disorders	i i
		CSD	333	Oral Language Development	
		ENG		Introduction to English Language Studies 3	
		LIN LIN	200 401	Introduction to Language	
				Introduction to Linguistics	
				courses toward the major, in which case 0 cred-	
				ard the Planned Program.	
	(4)			g science in elementary schools course (3 credits	s):
	. ,	ISE	301	Science for Elementary Schools	
				is waived for students pursuing the Integrated	
				ching Major. Integrated Science Education 301	
				isite for Teacher Education 403 and must be	
				ith a minimum grade of 2.0 prior to enrollment in a cation 403.	
	(5)			g U.S. history course (4 credits):	
	(0)	110 10			

IAH and Artistic Traditions of Europe (I). 4 241D Creative Arts and Humanities: Theater and IAH Society in the West (I)......4 241E Creative Arts and Humanities: The IAH
 IAH
 241E
 Creative Arts and Humanities: The Creative Process (D)......

 IAH
 241F
 Creative Arts and Humanities: Traditions in World Art (I).....

 Students may use Integrative Arts and Humanities 208 or
 Creative Arts and Humanities 208 or
 . 4 209 to satisfy the IAH "A" component and Integrative Arts and Humanities 241A, 241C, 241D, 241E or 241F to satisfy the IAH "B" component of the University's Integrative Studies requirement in Arts and Humanities. (4 credits may count toward both the Planned Program and the University's Integrative Studies requirement in Arts and Humanities). One of the following creative arts courses (3 credits): (8) MUS 463 Methods and Materials of Elementary Music . 3 ΤE 430 ΤĒ 431 TE 432 Learning Through Movement 3
 THR
 421
 Creative Dramatics

 THR
 422
 Children's Theatre
 3 Language Arts Teaching Majors may apply one of these courses to the Language Arts requirements, in which case 0 credits count toward the Planned Program. The following health and physical education course (3 credits): (9) 355 Physical Activity and Health Education for KIN Elementary Teachers Teaching Major. Four teaching majors (language arts, social studies, integrated science, and mathematics) are available for prospective elementary school teachers. Elementary teacher candidates must choose one of the four teaching majors. These majors, which are housed in the College of Education, provide prospective elementary teachers with the opportunity to focus academic studies in a set of closely allied subject areas that are central to the core curriculum in elementary and middle schools. To enroll in one of these teaching majors, students must be admitted to the College of Education's Elementary Teacher Certification Program. (b) (c) Mathematics (d) . . . 32 For the four teaching majors, refer to the section "MSU Subject Matter Teaching Majors for Teacher Preparation and Certification": (a) MSU Teaching Majors for Elementary Teacher Certifica-tion" in the section on *TEACHER CERTIFICATION* below. Disciplinary Teaching Minors (41 to 50 credits): Students may elect to complete one or more optional disciplinary teaching minor(s), in addition to the required teaching major. The following disciplinary teaching minors are available for prospective elementary school teachers. German..... Mathematics-Elementary 20 Spanish-Elementary 24 Teaching English to Speakers of Other Languages. 20 to 25 For requirements for the disciplinary teaching minors, refer to the

HST 202 U.S. History to 1876 This course is required for the Social Studies Teaching Major in which case 0 credits count toward the Planned Program.

The following geography course (3 credits): GEO 204 World Regional Geography This course is required for the Social Studies Teaching Major

in which case 0 credits count toward the Planned Program.

One of the following arts courses (4 credits):

(6)

IAH

IAH IAH

section "Requirements for the Disciplinary Teaching Minors Listed Above" in the section on TEACHER CERTIFICATION below. One Disciplinary Major. Students wishing to complete one or

more of the following optional disciplinary teaching majors, in addition to the required teaching major, should refer to Teacher Certification Options in the catalog sections for the colleges, departments, and schools that administer disciplinary majors that are available for teacher certification.

College of Arts and Letters: Ărabic

Chinese

French

German Japanese Spanish College of Social Science: History Education

TEACHER CERTIFICATION

ADMISSION TO THE TEACHER CERTIFICATION PROGRAM

Information about current admission requirements and the admission application process can be found at *http://education.msu.edu/academics/undergraduate/*. MSU undergraduates generally apply during the first semester of the sophomore year, although they may apply later.

To be considered for admission to the Teacher Certification Program, an applicant must:

- 1. Have earned a minimum of 28 credits.
- 2. Have earned a cumulative grade point average of at least 2.5.
- 3. Have successfully completed any required developmental course work.
- 4. Have disclosed any prior convictions or civil infractions and provided required court documents as necessary.
- Have passed all portions of the Michigan Test for Teacher Certification (MTTC) Professional Readiness Examination (PRE) or meet established criteria using approved alternative pass measures.
- 6. Have completed all aspects of the application process before the published deadline.

In addition to general admission requirements, applicants applying for admission to the Teacher Certification Program with a major in Special Education must also complete one or two supervised pre-admission experiences, totaling at least 42 hours, with children or youth who have special needs. Prospective Special Education students are encouraged to talk with Special Education faculty about the relative merits of various sites for securing the required experience. Applicants to the Special Education program must submit forms verifying completion of the experience along with a complete admission application (see *http://education.msu.edu/academics/undergraduate/*). Only students who have completed the required experience will be considered for admission to the Special Education major.

Persons who already hold baccalaureate degrees from Michigan State University or other recognized institutions of higher learning are required to follow the process for Post-Bachelors students (see http://education.msu.edu/certification/postba/post-bachelor-application.asp). Contact the College of Education Student Affairs Office for more information.

Persons are selected for admission based on a holistic evaluation of criteria that include, but are not limited to, cumulative grade point average, test results, and dispositions for teaching.

REQUIREMENTS FOR TEACHER CERTIFICATION

Disciplinary Course Requirements and Pedagogy Course Requirements

For some majors, 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, 403, 404, 405, 406, 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 teacher certification options in the catalog sections 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 possess the 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 as well as any associated costs (e.g. transportation).

Teacher Certification 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, or special education along with the teaching major, Planned Program for Elementary Education and all elementary program requirements 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 (3) in the section "Prerequisites for Admission to the Internship Year Studies Program" below are thereby qualified to pursue the Internship Year Studies Program.
- 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 section "Prerequisites for Admission to the Internship Year Studies Program" below in order to be considered for admission to that program.

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 Arts degree with a major in Child Development (teacher certification emphasis) and meet the requirements referenced in items 3. a. (1) through (3) in the section "Prerequisites for Admission to the Internship Year Studies Program" below in order to be considered for admission to the Internship Year Studies Program. Students who plan to teach kindergarten or early elementary grades may gain access to the Internship Year Studies Program via any one of the three alternatives referenced in item 1. above.

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) in the section on "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 section 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:
 - Michigan State University students who were admitted to the teacher certification program with a music education disciplinary major and who complete the requirements for teacher certification referenced in items 2. and 3. b. (1) and (2) in the section on "Prerequisites for Admission to the Internship Year 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 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) and (2) in the section on "Prerequisites for Admission to the Internship Year 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. 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) and (2) 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 section on "Prerequisites for Admission to the Internship Year Studies Program" below in order to be considered for admission to that program.

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 2.5.
- 2. Passed all portions of the Michigan Test for Teacher Certification (MTTC), Professional Readiness Examination (PRE), or demonstrated proficiency using approved alternative pass measures and completed the State of Michigan Department of Education's technology requirement.
- 3. Completed the following undergraduate requirements for teacher certification:
 - a. Undergraduate Requirements for Elementary Teacher Certification:
 - The professional education courses listed in the "Undergraduate Professional Education and Planned Program Course Requirements for Elementary Teacher Certification" section below.
 - (2) The Planned Program for Elementary Education listed in the "Undergraduate Professional Education and Planned Program Course Requirements for Elementary Teacher Certification" section below.
 - (3) The following requirements for subject matter teaching preparation: A given course may not be counted toward the credit requirements for both the required elementary teaching major and the Planned Program for Elementary Education.
 - (a) One of the four approved teaching majors for elementary teacher certification (language arts, social studies, mathematics, and integrated science), with a grade-point average of at least 2.5. The teaching majors are described below in the section "MSU Subject Matter Teaching Majors for Teacher Preparation and Certification" and their requirements are listed in the section "Requirements for the Teaching Majors."
 - (b) An optional disciplinary major for elementary teacher certification, in addition to the required teaching major with a grade-point average of at least 2.5. The approved disciplinary majors for elementary teacher certification are listed below in the section on "Options for Acceptable Subject Matter Teaching Majors and Minors for Elementary Teacher Certification." Courses for an optional disciplinary major or a Second Teaching Major may be double-counted with the required teaching major and the Planned Program for Elementary Education.
 - (c) Optional disciplinary teaching minors for teacher certification, in addition to the required teaching major, with a grade-point average of at least 2.5. The approved disciplinary teaching minors for elementary teacher certification and their requirements are listed below in the section on "Options for Acceptable Subject Matter Teaching Majors and Minors for Elementary Teacher Certification." Courses for an optional teaching minor may be double-counted with the required teaching major and the Planned Program for Elementary Education.

- **Undergraduate Requirements for Secondary** b. **Teacher Certification:**
 - (1) The Professional Education Courses listed below in the section on the "Undergraduate Professional Education Course Requirements for Secondary Teacher Certification.'
 - (2) An approved disciplinary major for secondary teacher certification, with a grade-point average of at least 2.5. The approved disciplinary majors for secondary teacher certification are listed below in the section on "Options for Acceptable Subject Matter Teaching Majors and Minors for Secondary Teacher Certification."
 - (3) An approved disciplinary teaching minor for secondary teacher certification, with a grade-point average of at least 2.5. The approved disciplinary teaching minors for secondary teacher certification and their requirements are listed below in the section on "Options for Acceptable Subject Matter Teaching Majors and Minors for Secondary Teacher Certification.
- Earned a grade point average of 2.5 or above for pre-intern-4. ship professional education courses required for teacher certification with no individual grade below 2.0.
- Completed any disciplinary courses and pedagogy courses 5. 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.

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

- 6. Passed the required State of Michigan certification tests for elementary teaching or the appropriate major subject area test for secondary teaching.
- 7. Submitted a complete conviction disclosure form; and
- 8. Met professional criteria as specified by the College of Education.

Undergraduate Professional Education and Planned Program Course Requirements for Elementary Teacher Certification

All courses are required unless otherwise stated. Some of the courses below are also required for or applicable to the Elementary Teaching Majors but the Planned Program must total at least 20 credits that are not double-counted with the required teaching major.

GPA Standards: All elementary teacher candidates must pass each Elementary Planned Program and Professional Education course with a minimum grade of 2.0. Professional Education Courses (21 credits): a.

(1)

All of	the fo	llowing courses (21 credits):				
TE	150	Reflections on Learning				
ΤE	250	Human Diversity, Power, and Opportunity in Social				
		Institutions				
ΤE	301	Literacy, Learners, and Learning in Context				
	100	– Elementary (W)				
ΤE	403	Teaching of Science to Diverse Learners				
		- Elementary 3				
TE	404	Teaching of Social Studies to Diverse				
	101	Learners - Elementary				
ΤE	405	Teaching of Language and Literacy to				
		Diverse Learners - Elementary				
ΤE	406	Teaching of Mathematics to Diverse Learners				
		- Elementary				
		th a major in Special Education are required to com-				
plete Counseling, Educational Psychology and Special Education						
240 in lieu of Teacher Education 250.						
		s with a major in child development are required to				
		ounseling, Educational Psychology and Special Educa-				
tion 240 in lieu of Teacher Education 250.						

b. Planned Program for Elementary Education (minimum of 20 credits):

- (1) Both of the following mathematics courses (6 credits): MTH 201 Elementary Mathematics for Teachers I 3 MTH 202 Elementary Mathematics for Teachers II 3 The completion of Mathematics 201 may also satisfy the university mathematics requirement. These courses are required for the Elementary Mathematics Teaching Major in which case 0 credits count toward the Planned Program. Mathematics 201 and 202 are a prerequisite for Teacher Education 406 and must be completed with a minimum grade of 2.0 prior to enrollment in Teacher Education 406.
- The following course in children's literature (3 credits): (2) TE 348 Reading and Responding to Children's Literature...3 This course is required for the Language Arts Teaching Major in which case 0 credits count toward the Planned Program. Teacher Education 348 is a prerequisite for Teacher Education 405 and must be completed with a minimum grade of 2.0 prior to enrollment in Teacher Education 405.

One of the following language acquisition and development (3) courses (3 or 4 credits):

CEP 345 Language and Literacy Development

		Disorders
CSD	333	Oral Language Development
ENG	302	Introduction to English Language Studies 3
LIN	200	Introduction to Language

LIN

ward the Planned Program.

Special education majors must take Counseling, Educational Psychology and Special Education 345, which is also required for the learning disabilities area of emphasis. This course will count toward the major requirements.

- The following science in elementary schools course (3 credits): (4) IsE 301 Science for Elementary Schools course (3 Credits): This course is waived for the Integrated Science Teaching Major. Integrated Science Education 301 is a prerequisite for Teacher Education 403 and must be completed with a minimum grade of 2.0 prior to enrollment in Teacher Education 403.
- The following U.S. history course (4 credits):
- The following geography course (3 credits): (6) GEO 204 World Regional Geography... This course is required for the Social Studies Teaching Major, in which case 0 credits count toward the Planned Program.
- (7)One of the following arts courses (4 credits): IAH
 - 208
 Music and Culture (I).

 209
 Art, the Visual, and Culture (D).

 IAH
 - 241A Creative Arts and Humanities: Music and Society in the Modern World (D) IAH
 - in the Modern World (D)4 241C Creative Arts and Humanities: Cultural and Artistic IAH
 - IAH

 - IAH
 241E Creative Arts and Humanities: The Creative Arts and Humanities: The Creative Process (D)

 IAH
 241E Creative Arts and Humanities: Traditions in World Art 1 (I)

 Students may use Integrative Arts and Humanities 208 or 209 to the formation of the 4

satisfy the IAH "A" component and Integrative Arts and Humanities 241A, 241C, 241D, 241E or 241F to satisfy the IAH "B" component of the University's Integrative Studies requirement in Arts and Humanities. (4 credits may count toward both the Planned Program and the University's Integrative Studies requirement in Arts and Humanities).

One of the following creative arts courses (3 credits): (8)

MUS	463	Methods and Materials of Elementary Music	3
TE		Introduction to Arts in the Classroom	

ΤE	431	Learning through Drama	3
TE	122	Loorning Through Movement	2

 432
 Learning Through Movement
 3

 421
 Creative Dramatics
 3
 THR 422 Children's Theatre... THR

Language Arts Teaching Majors may apply one of these courses to the Language Arts requirements, in which case 0 credits count toward the Planned Program.

(9)The following health and physical education course (3 credits): KIN 355 Physical Activity and Health Education for

Undergraduate Professional Education Course Requirements for Secondary Teacher Certification

1. The following Professional Education Courses (20 or 21 credits):

				CREDITS
a.	All of t	he foll	owing courses (20 credits):	
	TE	150	Reflections on Learning	3
	TE	250	Human Diversity, Power, and Opportunity in	
			Social Institutions	3
	TE	302	Learners and Learning in Context - Secondary (W)	4

	TE	407	Teaching of Subject Matter to Diverse				
			Learners - Secondary (W)				
	TE	408	Crafting Teaching Practices - Secondary (W)				
b.	The f	The following course if the teaching major and minor are in differ-					
	ent si	ubject n	natter:				
	TE	409	Crafting Teaching Practices in the Secondary				
			Teaching Minor				
	The	e pedag	ogy courses that are required for students with a disciplinary ma				
	• • • • •		TEACHER OF DIFICATION				

in music education are specified in the section on TEACHER CERTIFICATION OPTIONS in the College of Music section of this catalog. Students with a disciplinary major in music education must complete Teacher Education 150, Teacher Education 250, Teacher Education 302 and Music 277 to be considered for admission to the Music Education student teaching experience. Teacher Education 409 is required if the student pursues a minor. It is not required of the major.

Students with a disciplinary major in art education must complete Studio Art 481 and 482 in lieu of Teacher Education 407 and 408.

Admission to the Internship Year Studies Program

The section 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

CREDITS 24

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

the College of Education. Students with a music education disciplinary major must complete approved alternative courses in lieu of Teacher Education 501, 502, 801, 802, 803, and 804.

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

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.

Internship Placements

Students seeking teacher certification are required to complete extended internships during the Internship Year Studies Program. Interns who desire to be placed in secondary schools must pass the Michigan Test for Teacher Certification (MTTC) subject tests in their teaching major. Elementary interns, including Special Education and Child Development majors, must pass, at minimum, the MTTC test in Elementary Education prior to placement in grades K-5. For the full criteria to be admitted to the internship year, see Prerequisites for Admission to 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., 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 and may be allowed to apply 800-level courses from the Internship Year Studies Program to their master's degree with the approval of the units that administer the master's degree program.

Students in any master's program in the College of Education may apply a maximum of 12 credits earned through any combination of courses taken through lifelong education, graduate certification, or in transfer from another institution. Each program may determine if courses are appropriate for the master's program and may allow fewer than 12 credits to be applied to the specific master's program.

For additional information about the 800-level courses that are required for the Internship Year Studies Program, refer to the section on "Requirements for the Internship Year Studies Program."

MSU SUBJECT MATTER TEACHING MAJORS AND MINORS FOR TEACHER PREPARATION AND CERTIFICATION

Michigan State University offers three options for subject matter teacher preparation and certification.

MSU Teaching Majors for Elementary Teacher Certification

The State of Michigan requires a minimum of 36 semester credits for a group (multiple subject) teaching major and a minimum of 30 semester credits for a single subject teaching major for elementary teacher certification. Four teaching majors are available for prospective elementary school teachers:

Group (multiple subject) teaching majors Language Arts Social Studies Integrated Science Single subject teaching major **Mathematics**

These majors, which are housed in the College of Education, provide prospective elementary teachers with the opportunity to focus academic studies in a set of closely allied subject areas that are central to the core curriculum in elementary and middle schools and that are aligned with Michigan Department of Education standards. To enroll in one of these teaching majors, students must be admitted to the Elementary Teacher Certification Program in the College of Education. The specific course requirements for each of the teaching majors are listed below.

Students in the special education major are recommended for elementary teaching certification and K-12 for their special education endorsement area.

MSU Disciplinary Majors for Elementary and Secondary Teacher Certification

The State of Michigan requires a minimum of 30 semester credits for a single–subject disciplinary teaching major, a minimum of 36 semester credits for a group disciplinary teaching major, and a minimum of 50 semester credits for a comprehensive teaching major. If the minimum number of credits required for teacher certification is not required in the student's disciplinary major, the student must complete additional credits as necessary for teacher certification. Comprehensive majors are not required to have a separate disciplinary minor.

All of the disciplinary majors are undergraduate majors.

Students in the art education, communicative sciences and disorders, and music education majors are recommended only for secondary teacher certification: K-12 endorsed subject area.

Below, the disciplinary majors that are available for teacher certification are identified, along with the colleges that administer them. Group disciplinary majors and comprehensive majors are also 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 section for additional information about a given major.

MSU Disciplinary Teaching Minors for Elementary and Secondary Teacher Certification

The State of Michigan requires a minimum of 20 semester credits for a single–subject disciplinary teaching minor, and a minimum of 24 semester credits for a group subject disciplinary teaching minor, for elementary or secondary teacher certification. Below, the disciplinary teaching minors that are available for teacher certification are identified, and other information is provided.

OPTIONS FOR ACCEPTABLE SUBJECT MATTER TEACHING MAJORS AND MINORS FOR ELEMENTARY TEACHING CERTIFICATION

Teaching Majors Available for Elementary Teacher Certification

Language Arts Social Studies Integrated Science Mathematics

Disciplinary Majors Available for Elementary Teacher Certification

Students electing to complete the requirements for an optional disciplinary teaching major in addition to their required teaching major should make their choices from the list below.

MAJOR

COLLEGE

Arabic	Arts and Letters
Chinese	Arts and Letters
French	Arts and Letters
German	Arts and Letters
Japanese	Arts and Letters
Spanish	Arts and Letters
Special Education (Learning Disabilities)	Education

Disciplinary Teaching Minors Available for Elementary Teacher Certification

Students electing to complete a disciplinary teaching minor(s) in addition to their required major should make their choices from the list below.

MINOR	COLLEGE
Arabic Chinese Computer Science Early Childhood-General and Special	Arts and Letters Arts and Letters Engineering
Éducation English French German Japanese Mathematics-Elementary Russian	Social Science Arts and Letters Arts and Letters Arts and Letters Arts and Letters Natural Science Arts and Letters
Spanish-Elementary Teaching English to Speakers of Other Languages	Arts and Letters Arts and Letters

Undergraduate Degree Majors Leading to Endorsements on an Elementary Teacher Certificate

MAJOR	COLLEGE
Child Development	Social Science
Special Education	Education

Note that child development majors (with the teacher certification emphasis) and special education majors must also complete the requirements for a teaching major, the Planned Program for Elementary Education and all elementary program requirements as specified in the section above, *Requirements for Teacher Certification*. Child development and special education majors take Counseling, Educational Psychology and Special Education 240 in lieu of Teacher Education 250.

Language arts, social studies, and integrated science are group majors, requiring 36 or more semester credits.

A given course may not be counted toward both the credit requirements for the teaching major and the credit requirements for the Planned Program. Courses for optional teaching majors or minors may be double-counted, including credits toward the Planned Program.

OPTIONS FOR ACCEPTABLE SUBJECT MATTER TEACHING MAJORS AND MINORS FOR SECONDARY TEACHING CERTIFICATION

Disciplinary Majors Available for Secondary Teacher Certification

COLLEGE

MAJOR

Agriculture, Food and Natural Resources Education Arabic Biological Science-Interdepartmental Chemistry Chinese Comparative Cultures and Politics Earth Science-Interdepartmental English French Germar History Education Interdisciplinary Studies in Social Science: Social Science Education International Relations Japanese Mathematics Mathematics. Advanced Physical Science-Interdepartmental Physics Political Theory and Constitutional Democracy Social Relations and Policy Spanish

Agriculture and Natural Resources Arts and Letters Natural Science Natural Science Arts and Letters James Madison College Natural Science Arts and Letters Arts and Letters Arts and Letters Social Science Social Science

James Madison College Arts and Letters Natural Science Natural Science Natural Science James Madison College James Madison College Arts and Letters

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Disciplinary Teaching Minors Available for Secondary Teacher Certification

MINOR	COLLEGE
MINOR Agriculture, Food and Natural Resources Education Arabic Biology Chemistry Chinese Computer Science Earth Science Earth Science Economics English French Geography German History Italian Japanese Journalism Latin Mathematics-Secondary	COLLEGE Agriculture and Natural Resources Arts and Letters Natural Science Natural Science Arts and Letters Engineering Natural Science Social Science Arts and Letters Arts and Letters Social Science Arts and Letters Arts and Letters Arts and Letters Karts and Letters Communication Arts and Sciences Arts and Letters Natural Science
Mathematics-Secondary Physics	Natural Science
Political Science Psychology Sociology	Social Science Social Science Social Science
Spanish-Secondary Teaching English to Speakers	Arts and Letters
of Other Languages	Arts and Letters

The economics, geography, and political science disciplinary teaching minors are available only to students pursuing a major in comparative cultures and politics, international relations, political theory and constitutional democracy, social relations and policy, interdisciplinary studies in social science: social science education, or history education.

Undergraduate Degree Majors Leading to K-12 Endorsements on a Secondary Teaching Certificate COLLEGE

MAJOR

Arabic	Arts and Letters
Art Education	Arts and Letters
Chinese	Arts and Letters
French	Arts and Letters
German	Arts and Letters
Japanese	Arts and Letters
Music Education	Music
Spanish	Arts and Letters

Agriculture, food and natural resources education is a group major requiring 36 or more semester credits.

Art education, comparative cultures and politics, interdisciplinary studies in social science: social science education, international relations, music education, physical science - interdeparmental, political theory and constitutional democracy, and social relations are comprehensive group majors requiring a minimum of 50 semester credits, and are exempt from the requirement to complete a separate teaching minor.

A given course may not be counted toward the credit requirements for both a disciplinary major and a disciplinary minor. Courses for an optional extra teaching minor or major may be double-counted.

REQUIREMENTS FOR THE TEACHING MAJORS

Language Arts Teaching Major for Elementary Teacher Certification

At least 36 credits with a minimum of 17 to 18 credits at the 300-400 level.

CREDITS 36 to 46 1. Language, Literacy, and Culture (11 to 15 credits): One of the following courses (3 or 4 credits): ENG 302 Introduction to English Language Studies...... a. 3 LIN 200 Introduction to Language 3 4 I IN 401 Introduction to Linguistics . One of these courses is also required for the Elementary Planned Program, but the credits will count toward Language Arts and requires a minimum grade of 2.0. One of the following courses (3 credits): b. ANP CEP 420 Language and Culture...... 345 Language and Literacy Development 3 and Disorders . . . 3 CSD 333 3 3 ENG 406

	LIN LIN	424 434	Introduction to Phonetics and Phonology Introduction to Syntax	3 3
	LIN	437	Semantics and Pragmatics	3
	LIN LLT	450 346	Child Language Acquisition Pedagogical English Grammar for English Teachers	3
	PHL	360	Philosophy of Language	3
			Educational Psychology and Special Education 345 r special education majors.	
c.			llowing courses (6 to 8 credits):	
	COM COM	310 320	Intercultural Communication	3
	IAH		Diversity and Communication Themes and Issues: Roles of Language	3
			in Society (D)	4
	LIN LLT	471 307	Sociolinguistics	3
			Teaching	3
\A/riti	LLT	361 toric a	Second and Foreign Language Learning Ind Design (6 to 8 credits):	3
a.			llowing courses (3 credits):	
	ENG	223	Introduction to Creative Nonfiction Writing	3
	ENG ENG	226 228	Introduction to Creative Writing	3
	ENG	229	Introduction to Poetry Writing	3
	ENG	232	Writing as Exploration	3
	JRN TE	200 458	Writing and Reporting News I Reading, Writing, and Teaching Poetry	3 3 3 3 3 3 3 3
	WRA	260	Rhetoric, Persuasion, and Culture	3
	WRA WRA	308 320	Invention in Writing Technical Communication (W)	3
b.			llowing courses (3 or 4 credits):	5
	CEP	416	Teaching and Learning with Technology	3
	JRN JRN	310 336	Photojournalism Designing for Print and Digital Media	3
	JRN	445	Images and Messages	3 3
	JRN	491	Journalism Skills Topics	3
	JRN STA	409 110	Advising Student Publications	3 or 4 3
	STA	113	Color and Design	3
	STA STA	114 371	Three-Dimensional Form	3 3 3
	WRA	210	Art, Education and Society Introduction to Web Authoring	3
- ,	WRA	360	Visual Rhetoric	4
			iterpretation (12 to 16 credits) be at the 300-400 level:	
a.			llowing courses (3 or 4 credits):	
	ENG	126	Introduction to Literary Genres	4
	ENG ENG	129 204	Introduction to Reading Poetry Topics in North American Literatures	4
	ENG	205	Topics in British Literatures	3
	ENG	206	Topics in Global Literatures	3
	ENG ENG	210 314	Foundations of Literary Study I Readings in North American Literatures	3 3 3 3 3 3
	ENG	315	Readings in British Literatures	3
b.	ENG	316	Readings in Irish Literature and Culture f the following courses (3 to 8 credits):	3
D.	COM	275	Effects of Mass Communication	3
	ENG	130	Film and Society	4
	ENG ENG	140 142	Literature and Society Introduction to Popular Literary Genres	4
	ENG	231	Film and Literature	4
	ENG	340 342	Theory and Methods of Popular Culture Studies	3 3
	ENG ENG		Readings in Popular Literary Genres Literature, Technology, and Representation	3
	ENG	478B	Literature and Visual Culture.	3
	FLM FLM	230 355	Introduction to Film Studies in Film Genres	4
	FLM	380	Classical Film and Media Theory	3 3 3 3
	JRN	108	The World of Media.	3
	WRA WRA	260 415	Rhetoric, Persuasion, and Culture	3
C.			f the following courses (3 to 8 credits):	
	AL	431 153	European Fairy Tale Tradition.	3 4
	ENG ENG	218	Introduction to Women Authors Introduction to Shakespeare	4
	ENG	318	Readings in Shakespeare	3
	ENG ENG	320A 320B	Methodologies of Literary History: Genre Methodologies of Literary History: Region, School, or Movement	4
	ENG	320C	Methodologies of Literary History: Canon Formation	4
	ENG	323	Readings in Non-Fiction	3
	ENG ENG	324 326	Readings in Epic	3 3 3 3
	ENG	328	Readings in Novel and Narrative	3
	ENG ENG	329 350	Readings in Poetry and Poetics Readings in African, African-American, or African	3
	LING	550	Diaspora Literature	3
	ENG	351	Readings in Chicano and Latino Literatures	3
	ENG	352	Readings in Asian/Asian American/Asian Diaspora Literature and Visual Culture	3
	ENG	353	Readings in Women Writers	3
	ENG ENG	354 355	Readings in Native American Literature Readings in Sexuality and Literature	3
	ENG	355 356	Readings in Jewish Literature.	3 3 3 3 3
	RUS	231	19 th -Century Russian Literature in Translation	3 3
	RUS	232	20^{th} -Century Russian Literature in Translation	3
				04

		TE	448	Issues of Diversity in Children's and Adolescent Literature
4.	Spee	ch, Perl	formar	nce, and Communication (3 to 4 credits):
	a.	One of	the fo	llowing courses (3 to 4 credits):
		CEP	460	Communication Skill Training for the Helping Professional
		COM	100	
		COM	225	An Introduction to Interpersonal Communication
		COM	240	
		TE	430	
		TE	431	
		TE		Learning Through Movement
		THR		
		THR		
_		THR		Children's Theatre
5.	Child			e (3 credits):
	a.	The fol		course (3 credits):
		TE		Reading and Responding to Children's Literature
		This co	ourse is	s also required for the Elementary Planned Program
		but the	credit	ts will count towards Language Arts and requires a
		minimu	ım gra	de of 2.0.
6.	learn rheto	ing and ric, and	teachi Ameri	al credits in courses in English, linguistics, language ng, communications, journalism, theatre, or writing, can cultures as needed to satisfy the requirement of n this teaching major.

Social Studies Teaching Major For Elementary Teacher Certification

				CREDITS
Th	e follov	vina re	quirements for the major (49 credits):	
1.			wing courses (46 credits):	
	FC	201	Introduction to Microeconomics	3
	EC	202	Introduction to Macroeconomics	3
	GEO	204	World Regional Geography.	3
	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
	HST	140	World History to 1500	4
	HST	150	World History since 1500	4
	HST	201	Historical Methods and Skills	3
	HST	202	U.S. History to 1876	4
	HST	203	U.S. History since 1876	4
	HST	320	History of Michigan	3
	PLS	100	Introduction to American Politics	3
	PLS	140	Introduction to Comparative Politics	3
2.			llowing courses (3 credits):	
	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	3
	HST	314	Women in the United States since 1869	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

Integrated Science Teaching Major For Elementary Teacher Certification

		56 to 59
1.	All of the following biology courses (17 credits):	
	BS 161 Cell and Molecular Biology	
	BS 162 Organismal and Population Biology	
	BS 171 Cell and Molecular Biology Laboratory 2	
	BS 172 Organismal and Population Biology Laboratory 2	
	IBIO 355 Ecology	
	PSL 250 Introductory Physiology	
	tive Studies in Biological Sciences and laboratory components of the	
	University's Integrative Studies requirement	
2.	All of the following chemistry courses (8 credits):	
	CEM 141 General Chemistry	
	CEM 142 General and Inorganic Chemistry	
	CEM 161 Chemistry Laboratory I	
	Students may use 3 credits of Chemistry 141 to satisfy the Integrative	
	Studies in Physical Sciences component of the University's Integrative	
	Studies requirement.	
3.	All of the following earth science courses (10 credits):	
	AST 207 The Science of Astronomy	
	GEO 203 Introduction to Meteorology	
4.	One of the following mathematics courses (3 or 5 credits):	
	MTH 114 Trigonometry	
	MTH 116 College Algebra and Trigonometry	
5.	All of the following natural science courses (7 credits):	
	ISE 120 Seminar in Integrated Science for Elementary Schools . 1	
	ISE 320 Integrated Science for Elementary Schools	
0	ISE 420 Integrated Science Research	
6.	All of the following physics courses (8 credits):	

7.	PHY PHY PHY One of STT	232 251 252 f the fo 200	Introductory Physics I 3 Introductory Physics Laboratory I 1 Introductory Physics Laboratory I 1 Individuation Physics Laboratory II 1 Individuation Physics Laboratory II 1 Individuation Physics Laboratory II 1 Statistics courses (3 or 4 credits): 3 Statistical Methods 3 Statistical Methods 4

Integrated Science, Secondary Education, **Comprehensive Endorsement**

3

3 3

3

CREDITS

A secondary education endorsement in Integrated Science is available for students in the undergraduate teaching certification program who are working on their initial certification. This endorsement must be completed in combination with either an approved science major or approved science minor at Michigan State University. When completed with a science major, the Integrated Science courses as a comprehensive teaching endorsement of 50 or more credits waives the requirement for a separate additional minor. Students interested in completing the Integrated Science secondary endorsement should contact an advisor in the College of Education, 134 Erickson Hall, for more information.

Mathematics Teaching Major for Elementary Teacher Certification

				UKLDH 3
1.	All of the following courses (28 credits):			
	MTH	132	Calculus I	3
	MTH	133	Calculus II	4
	MTH	201	Elementary Mathematics for Teachers I	3
	MTH	202	Elementary Mathematics for Teachers II	3
	MTH	301	Foundations of Higher Mathematics	3
	MTH	304	Algebra for Elementary and Middle School Teachers	3
	MTH	305	Functions and Calculus for Elementary and Middle	
			School Teachers (W)	3
	MTH	330	Higher Geometry	3
	MTHE	430	History of Mathematics	3
	For Ele	ementa	ary Mathematics Teaching Majors, Mathematics 201 and	
	202 wil	ll coun	t for 0 credits in the planned program.	
2.	One of	the fo	llowing courses (4 credits):	
	STT	201	Statistical Methods	4
	STT	250	Statistics and Probability for K-8 Teachers	4

REQUIREMENTS FOR THE DISCIPLINARY TEACHING MINORS

ACRICHITURE FOOD AND NATURAL RESOURCES EDUCATION

AGRIC	AGRICULTURE, FOOD AND NATURAL RESOURCES EDUCATION					
			CREDITS			
ABM	100	Decision-making in the Agri-Food System	3			
ANS	110	Introductory Animal Agriculture.	4			
CSS	101	Introduction to Crop Science	3			
CSS	210	Fundamentals of Soil Science	3			
CSUS	200	Introduction to Sustainability	3			
CSUS	322	Leadership for Community Sustainability	3			
CSUS	343	Community Food and Agricultural Systems	3			
HRT	203	Principles of Horticulture	2			
			25			

ARABIC

Complete a minimum of 20 credits form the following:

1.	. All of the following courses:			
	ARB	201	Second-Year Arabic I	5
	ARB	202	Second-Year Arabic II	5
	ARB	301	Third-Year Arabic I	4
2.	One o	f the fo	llowing courses:	
	ARB	360	Arabic Language and Society	3
	ARB	460	Special Topics in Arabic Culture (W)	3
		461		3
3.	The fo	llowing	course:	
	LLT	307	Methods of Second and Foreign Language Teaching	3

CREDITS

(1) BS BS BS BS	followi 161 162 171 172	ng groups of courses (9 or 10 credits): Cell and Molecular Biology Organismal and Population Biology Cell and Molecular Biology Laboratory Organismal and Population Biology Laboratory
(2) BS BS	181H 182H	Honors Cell and Molecular Biology
BS	102H	Honors Cell and Molecular Biology Laboratory
BS	192H	Honors Organismal and Population Biology Laboratory.
(3) LB	144	Biology I: Organismal Biology
LB	145	Biology II: Cellular and Molecular Biology
		g courses (14 to 16 credits):
IBIO	341	Fundamental Genetics
IBIO	355	Ecology
IBIO	355L	Ecology Laboratory (W)
PSL	250	Introductory Physiology
Or	0.4.0	
PSL Or	310	Physiology for Pre-Health Professionals
PLB	301	Introductory Plant Physiology
BMB	200	Introductory Plant Physiology
Or	200	Introduction to Biochemistry
MMG	301	Introductory Microbiology

23 to 26

CHEMISTRY

CHEMISTRI				
One of	the fol	lowing sequences:		
CEM	151	General and Descriptive Chemistry		
and				
CEM	152	Principles of Chemistry		
or				
CEM	141	General Chemistry		
and				
CEM .	142	General and Inorganic Chemistry		
Requir				
CEM	161	Chemistry Laboratory I		
CEM	162	Chemistry Laboratory II		
CEM	262	Quantitative Analysis		
		lowing sequences:		
CEM	251	Organic Chemistry I		
and				
CEM	252	Organic Chemistry II		
and	055			
CEM	255	Organic Chemistry Laboratory		
or	054			
CEM	351	Organic Chemistry I		
and	050			
CEM	352	Organic Chemistry II		
and	055	Our state to the state of the		
CEM	355	Organic Laboratory I		
The foll CEM	383			
	303	Introductory Physical Chemistry I		

CHINESE

U					
1.	All of t	he follo	wing courses:		
	CHS	201	Second-Year Chinese I		
	CHS	202	Second-Year Chinese II		
	CHS	301	Third-Year Chinese I		
	CHS	302	Third-Year Chinese II		
	LLT	307	Methods of Second and Foreign Language Teaching		
2.	One of	the fol	lowing courses:		
	CHS	350	Studies in Chinese Language		
	CHS	360	Chinese Film Studies		
	CHS	366	Chinese Culture: Tradition and Modernity (W)		
	CHS	401	Fourth-Year Chinese I		
	CHS	402	Fourth-Year Chinese II		
	CHS	410	Chinese Short Stores		
	CHS	411	Advanced Spoken Chinese		
	CHS	466	Modern Chinese Literature and Films (W)		

COMIN OT LIV SOL	
All of the following	courses (19 credits)

COMPLITER SCIENCE

CSE	131	Introduction to Technical Computing	3
CSE	231	Introduction to Programming I	4
CSE	232	Introduction to Programming II	4
CSE	260	Discrete Structures in Computer Science	4
CSE	320	Computer Organization and Assembly Language	
		Brogramming	1

Programming. 4 One additional 300-400 level course in the Department of Computer Science and Engineering selected from the following: CSE 331, CSE 410, CSE 420, or CSE 460. The total credits for the teaching minor will be 22 or 23 credits. CSE 131, 231, 232, 260, and 320 will be available without restriction to students who meet the prerequisites. Students will need to submit a plan for the teaching minor to the Department of Computer Science and Engineering. If the student's overall grade-point average and technical grade-point average (courses in mathematics, the physical and biological sciences, and engineering) meet the standards required of Computer Science majors for admission to upper level studies, the student's plan will be approved, and the Department of Computer Science and Engineering will approve access to additional Computer Science and Engineering courses in the minor.

EARLY CHILDHOOD-GENERAL AND SPECIAL EDUCATION

CEP	240	Diverse Learners in Multicultural Perspective	3
HDFS	211	Child Growth and Development	3
HDFS	320	Interaction with Children in Groups	3
HDFS	320L	Interaction with Children-Laboratory	1
HDFS	321	Curriculum for Children (W)	3
HDFS	321L	Curriculum for Children-Laboratory	1
HDFS	322	Infant Development and Program Planning	3
HDFS	421	Assessment of the Young Child	3
HDFS	424	Student Teaching in an Early Childhood Program	6

EARTH SCIENCE

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

ECONOMICS

(Available only to students pursuing a major in comparative cultures and politics, international relations, political theory and constitutional democracy, social relations and policy, interdisciplinary studies in social science, interdisciplinary studies in social science: social science education, or history with a teacher certification option)

E	EC 201 Introduction to Microeconomics EC 202 Introduction to Macroeconomics EC 301 Intermediate Microeconomics EC 302 Intermediate Microeconomics EC 302 Intermediate Macroeconomics Electives from Economics Courses at 300 or 400 level	3 3 3 3 3
_		21
	ENGLISH I. Both of the following courses:	6
	ENG 210 Foundations of Literary Study I	0
2	2. One of the following courses:	3
	TE 348 Reading and Responding to Children's Literature3 Students pursuing elementary certification must take TE 348.	
-	Students pursing secondary certification must take ENG 308. 3. One of the following courses (3 or 4 credits)::	3 or 4
	ENG 280 Foundations of Literary Study II	5014
	FLM 230 Introduction to Film	
4	One of the following courses (4 credits): ENG 320A Methodologies of Literary History: Genre4	4
	ENG 3208 Methodologies of Literary History: Region, School, or	
	Movement	
	ENG 320C Methodologies of Literary History: Canon Formation 4	
5	5. One of the following courses (3 or 4 credits):	3
	ENG 360 Studies in Postcolonial and Diaspora Literature (W)3 ENG 362 Studies in Modern/Contemporary Literature (W)3	
	ENG 362 Studies in Modern/Contemporary Literature (W)3 ENG 364 Studies in 18th-/19th-Century Literature (W)3	
	ENG 368 Studies in Medieval/Early Modern Literature (W)	
	ENG 408 Socio-Psycholinguistic Approaches to Reading in the	
	Disciplines	
	Students pursuing elementary certification may not select English 408.	
6	At least one 300-400 level ENG course (3 or 4 credits).	
	Students pursuing elementary certification may not use ENG 413, 490	

Students pursuing elementary certification may not use ENG 413, 490 or 493 to meet this requirement. Students pursuing secondary certification may not use ENG 490 or 493 to meet this requirement. Students may substitute TE 448, Issues of Diversity in Children's and Adolescent Literature, to fulfill this requirement.

22 to 25

EDUCATION Department of Teacher Education

FRENCH			
FRN	320	Self-Expression in Writing (W)	3
FRN	321	Oral Expression	3
FRN	330	French Phonetics	3
FRN	340	Introduction to Reading French Literature (W)	3
FRN	415	Introduction to French Studies I: Metropolitan France	3
FRN	416	Introduction to French Studies II: Francophone Cultures	3
FRN	425	Advanced Studies in French Language	3
	or		
FRN	430	French Linguistics	3
LLT	307	Methods of Second and Foreign Language Teaching	3

GEOGRAPHY

(Available only to students pursuing a major in comparative cultures and politics, international relations, political theory and constitutional democracy, social relations and policy, interdisciplinary studies in social science, interdisciplinary studies in social science: social science education, or history with a teacher certification option) 3

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 o	f the fo	llowing courses:	
GEO	113	Introduction to Economics Geography	3
GEO	151	Cultural Geography.	3
One a	dditiona	I course in Geography at the 300 or 400 level	3
			22

Students enrolled in the disciplinary teaching minor in geography must have their programs approved by the department.

CEDMAN

GE				
1.	Two of	the fol	lowing courses:	
	GRM	301	Third-Year German I	3
	GRM	302	Third-Year German II	3
	GRM	311	Business German	3
2.	All of th	ne follo	wing courses:	
	GRM	341	German Literature and Culture Before 1918	3
	GRM	342	German Literature and Culture since 1918	3
	GRM	420	Advanced German (W)	3
	GRM	460	Linguistic Analysis of Modern German	3
	GRM	461	Teaching German Language and Culture	3
	LLT	307	Methods of Second and Foreign Language Teaching	3

HISTORY

HST

320

The student must complete all of the following courses: nust complete all of the following courses: World Regional Geography Introduction to Geographic Information Geography of the United States and Canada. World History of 1500 World History since 1500 Historical Methods and Skills U.S. History to 1876 U.S. History of Michigan GEO 204 GEO 221 GEO 330 HST 140 HST 150 HST 201 HST 202 HST 203

History of Michigan

ITALIAN				
ITL	201	Second–Year Italian I		
ITL	202	Second–Year Italian II		
ITL	320	Advanced Grammar and Composition		
ITL	340	Phonetics and History of the Italian Language		
ITL	350	Introduction to Italian Literature		

One of the following:		
		Italian Culture and Civilization
ITL	360	Topics in Italian Language and Culture

JAPANESE

All of th	All of the following courses (24 credits):				
JPN	201	Second–Year Japanese I			
JPN	202	Second–Year Japanese II			
JPN	301	Third–Year Japanese I			
JPN	302	Third–Year Japanese II			
JPN	369	Introduction to Japanese Literature and Culture			
LLT	307	Methods of Teaching English to Speakers of			
		Other Languages			

Writing and Reporting News..... JRN 200 333333 JRN 203 Visual Storytelling Photojournalism JRN 310 Photojournalism Designing for Media News Media Law and Ethics. Advising Student Publications JRN 336 .IRN 430 JRN 409 Electives approved by the School 3 21 Students are encouraged to choose electives from the following list: Video Storytelling with Cell Phones JRN 305 3 JRN 206 3 3 JRN 325 Journalism History LATIN One of the following courses: Nepos and Latin Prose Livy and Roman Historiography 206 211 I TN 3 3 LTN One of the following courses: LTN 208 221 3 LTN 3 One of the following courses: LTN 306 The Works of Cicero (W) 3 Augustine and His Age (W) 311 3 LTN One of the following courses: Roman Comedy (W). 3 308 LTN The Works of Ovid (W)..... 321 3 LTN One of the following courses: 406 Senior Seminar: Tacitus (W) 3 LTN Senior Seminar: Virgil (W) Senior Seminar: Virgil (W) Senior Seminar: Petronius and Apuleius (W)..... Senior Seminar: Horace (W). 3 LTN 408 LTN 411 3 3 LTN 421 wing courses: All of the follo Roman Civilization 3 CLA 310 Ancient Roman History 200 BCE to 500 CE. 331 3 HST

MATHEMATICS-ELEMENTARY

JOURNALISM

24

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LTN

499

All of t	ho follo	wing courses:
MTH	132	Calculus I
MTH	133	Calculus II
MTH	301	Foundations of Higher Mathematics
MTH	330	Higher Geometry
SME	430	History of Mathematics
STT	201	Statistical Methods

Senior Thesis

1

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20 to 24

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MATHEMATICS-SECONDARY

1417		ALICO	-0200	MDAN I	
1.	All of t	he follo	wing co	urses (11 credits):	
	MTH	132	Calcul	us I	3
	MTH	133	Calcul	us II	4
	MTH	234	Multiva	ariable Calculus	4
2.	One of	f the fol	lowing,	either a. or b. (3 or 7 credits):	
	a.	MTH	299	Transitions	4
		MTH	309	Linear Algebra	3
	b.			Honors Linear Algebra	3
3.	One of	f the fol	lowing c	courses (3 credits):	
				Geometry	3
				atic Geometry	3
4.	One of	f the fol		courses (3 credits):	
	STT	351		pility and Statistics for Engineering	3
	STT	441		pility and Statistics I: Probability	3
	STT	430	Introdu	ction to Probability and Statistics	3

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	215	Thermodynamics and Modern Physics	3
PHY	431	Optics I	3
PHY	440	Electronics	4

POLITICAL SCIENCE

(Available only to students pursuing a major in Comparative Cultures and Politics, International Relations, Political Theory and Constitutional Democracy, Social Relations and Policy, Interdisciplinary Studies in Social Science, Interdisciplinary Studies in Social Science: Social Science Education, or History with a teacher certification option.)

All c	f the foll	owing courses (12 credits):
PLS		Introduction to American National Government
PLS		Government and Politics of the World
PLS		Introduction to International Relations
PLS		Introduction to Political Philosophy
		e of the following courses (9 or 10 credits) :
PLS		American State Government
PLS		Urban Politics
PLS		Minority Politics
PLS		Public Bureaucracy in the Public Policy Process
PLS		Public Policy Analysis
PLS		The American Judicial Process
PLS		American Constitutional Law
PLS		Comparative Legal Systems.
PLS		Religion and Politics
PLS		American Legislative Process.
PLS		American Executive Process
PLS		Political Parties and Interest Groups
PLS		Political Socialization and Public Opinion
PLS		Campaigns and Elections
PLS		Comparative Political Economy
PLS		Politics in the Third World
PLS		African Politics
PLS		Latin American Politics
PLS		Politics of Asia
PLS		West European Politics.
PLS		Politics of English Speaking Democracies
PLS		Politics of the U.S.S.R. and Its Successor States.
PLS		Foreign Policy
PLS	363	International Political Conflict
PLS		International Organization and Cooperation
PLS		Classical Political Philosophy
PLS		Modern Political Philosophy
PLS		American Political Thought.

21 or 22

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PSYC	HOLO	GY
PSY	101	Introductory Psychology
PSY	200	Cognitive Psychology
PSY	209	Brain and Behavior
PSY	235	Social Psychology.
PSY	244	Developmental Psychology: Infancy
		through Childhood
PSY	295	Data Analysis in Psychological Research.
PSY	424	Child and Family Psychopathology.

Developmental Psychology: Adolescent

Through Youth.....

SOCIOLOGY

344

10

PSY

000102001								
	Each o	of the fo	bllowing:					
	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 fol	llowing:					
	SOC	215	Race and Ethnicity	3				
	SOC	216	Sex and Gender	3				
	SOC	330	Social Stratification	3				
	Two ele	ective c	ourses at the 300–400 level	6				

SPANISH-ELEMENTARY

LLT	307	Methods of Teaching English to Speakers of Other Languages
SPN	310	Basic Spanish Grammar.
SPN	320	Cultural Readings and Composition (W)
SPN	330	Phonetics and Pronunciation
SPN	342	Media and Conversation
SPN	350	Introduction to Reading Hispanic Literature (W)
SPN	440	The Structure of Spanish
One of	the foll	owing courses:
SPN	420	Spain and its Literature
SPN		Latin America and its Literature

SPANISH-SECONDARY

FLT	807 or	Foreign Language Teaching Methods	3
LLT SPN SPN SPN SPN SPN SPN	307 310 320 330 342 350 412	Methods of Second and Foreign Language Teaching Basic Spanish Grammar	3 3 3 3 3 3 3 3 3
SPN	440	The Structure of Spanish	3
TEAC	HING	ENGLISH TO SPEAKERS OF OTHER LANGUAGES	24
1. Or LII	N 20	e following courses:	3 or 4
	of the T 30 T 34	11 Introduction to Linguistics 4 following courses:	14

 TE
 494
 Field Experience in Teacher Education
 5

 3.
 Complete either a. or b.:
 3 or 7

 a.
 ANP
 420
 Language and Culture
 3

 b.
 COM
 391
 Topics in Verbal, Intercultural, or Gender
 4

 Communication
 4
 LIN
 471
 Sociolinguistics
 3

The Teaching English to Speakers of Other Languages minor must be completed in combination with an academic core major. Students should see an academic advisor in the College of Education for more information.

TEACHER CERTIFICATION REGULATIONS IN THE STATE OF MICHIGAN

All persons teaching in Michigan public schools 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 6–12 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.

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. Ultimately, teachers must fulfill the requirements for the Michigan Professional Education Certificate. Current requirements for advancing to the Professional Education Certificate or renewing a Provisional Certificate can be found on the Michigan Department of Education Web site at: *http://www.michigan.gov/mde*.

The detailed requirements for teacher certification are not set forth here. Students who plan to teach should consult their academic advisors early in their programs of study to obtain information about the requirements for the particular teaching certificate in which they are interested. Admission to the teacher certification program requires application and satisfaction of minimum admission requirements. Refer to *Admission to the Teacher Certification Program* under *Teacher Certification* in the *Department of Teacher Education* section of this catalog for additional information. Students who intend to pursue a teaching certificate should know that certification requires payment of a fee to the Michigan Department of Education. Payment of the fee is a certificate requirement that must be met prior to issuance of the teaching certificate. The Administrative Rules Governing the Certification of Michigan Teachers require that an application for certification must be made no later than five years after credit requirements have been met. Furthermore, the Administrative Rules Governing the Certification of Michigan Teachers (§ 390.1201) states that:

(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.

The College of Education solicits information that is used in making decisions regarding admission, 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 College of Education Student Affairs office. Since the State of Michigan enters into reciprocal agreements with other states in regard to teacher certification, students should be aware that although other states have requirements similar to those of the State of Michigan, other states may impose additional requirements.

Students who intend to pursue a teaching certificate should also be apprised of the following:

- (2) Beginning July 1, 1992, 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 a 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, completion of course work for at least one major and one minor are required.
- (b) For an elementary level teaching certificate, has passed a 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 a basic skills test, the elementary certification test, and the subject area tests.

ENDORSEMENTS

Persons who hold a valid State of Michigan teaching certificate may earn additional certificate endorsements. Certificate endorsements signify that the certificate holder is highly qualified to teach in the endorsement area at the appropriate grade levels.

The holder of an elementary or secondary provisional, permanent, continuing or professional education certificate may qualify for an additional endorsement by meeting the course work requirements for any Michigan State University disciplinary teaching major or minor. The planned program for meeting course work requirements must include a minimum of 20 semester hours and be approved by a College of Education advisor. In addition to completing required course work in the endorsement area, the candidate must pass the corresponding MTTC subject test.

A K-12 reading specialist (BR) endorsement or an elementary or secondary reading (BT) endorsement can be obtained by completing the requirements for Michigan State University's Master of Arts degree program in Teaching and Curriculum and a Graduate Specialization in Literacy and Language Instruction. A K-12 special education endorsement can be obtained in learning disabilities or autism spectrum disorders by completing the requirements for Michigan State University'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. A elementary or secondary Educational Technology (NP) endorsement can be added to an elementary or secondary certificate, respectively, by completing the requirements for Michigan State University's Master of Arts degree program in Educational Technology or by completing a prescribed 21-credit program in educational technology. An English as a Second Language endorsement can be added to either an elementary or a secondary certificate by completing the requirements for Michigan State University's Master of Arts degree program in Teaching and Curriculum or by completing a prescribed 23 credit program in English as a Second Language. A vocational endorsement in agricultural education can be obtained by meeting specified requirements.

To be recommended for certification, students completing course work required for endorsement areas must pass the appropriate Michigan Test for Teacher Certification Subject Test. Individuals who are interested in seeking additional endorsements must contact an academic advisor 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 or Doctor of Philosophy degree. Graduate Specializations are also available in Language and Literacy Education for doctoral students, Literacy and Language Instruction for master's students, and in K-12 English as a Second Language for master's students. A Graduate Certificate in Children's and Young Adult Literature and a Graduate Certificate in Elementary STEM Education are available online. Graduate certificates at the doctoral level are also available in Science Education, Urban Education, English Language Learner Education, and Qualitative Research Methods.

TEACHING and CURRICULUM

Master of Arts

The master's program in teaching and curriculum is designed principally for persons who wish to acquire advanced professional knowledge related to teaching and curriculum diverse learners in K–12 schools. The program is offered in face-to-face, online, and hybrid formats.

This master's program in teaching and curriculum consists of (1) designated areas of integrated, practice-centered inquiry in professional, disciplinary, and foundational studies and (2) sustained, simultaneous inquiry in both university and public–school settings. The program is designed for certified teachers and other educators who wish to continue their professional studies in teaching and curriculum.

Students wishing to add an Arabic or an English as a Second Language endorsement, a Classroom Reading Teacher (BT) endorsement, or Reading Specialist certification (BR) to their Michigan teaching certificate, as part of their Master of Arts in Teaching and Curriculum program may do so by completing the specified requirements for this endorsement or certification that have been approved by the Michigan Department of Education.

The program also considers applications from students who wish to pursue Michigan teacher certification in tandem with earning the master's degree in curriculum and teaching. Such students need to apply to and be accepted into the Teacher Certification Program, through which they will meet current Michigan teacher certification requirements in a program of study and in a year-long internship that will be tailored to their teaching aspirations and their previous academic background. [For additional information on the requirements for teacher certification and for admission into Michigan State University's Teacher Certification Program, see the **TEACHER CERTIFICATION** section of this catalog.]

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 Teaching and Curriculum

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

							CRED
1.	Profe	essional Dev	/elopmer	nt and Inquiry C	ore:		
	a.	One of the	following	g courses:			
		TE 807	7 Profe	ssional Develop	ment and Inqu	iry 3	
		TE 808	8 Inquii	ry into Classroo	m Teaching an	d	
						3	
	b.	One of the					
						ractice I 3	
						3	
				completed Tea			
				ear Studies prog	ram may use it	to fulfill this re-	
		quirement.					
	C.			g capstone cou			
		TE 870		culum Design, E			
						3	
		TE 872				3	
~	~					3	
2.	Concentration:						
	a.			ses at the 400-le ailable in the de		on a list of ap-	
	b.			ses at the 400-l			
	D.						
		ment.	ncentrat	ion on an appro	ved list availab	le in the depart-	
3.							
э.	a.			cher Education			
	a.			approved course			
				completed Tea			
				nship Year Stu			
					lies program	nay use those	
	b.			s requirement.	an approved b	with a student's	
	υ.	academic a		edits of electives	as approved t	by the students	
4							
4.				ptable to the stu			
	I NIS	paper must	be subm	itted near the e	ia or the stude	nus program of	

- This paper must be submitted near the end of the student's program of study. The submission of an acceptable synthesis paper and professional portfolio satisfies the University requirement of a final examination or evaluation.
 A professional portfolio developed by the student throughout the massive student throughout throughout throughout throughout throughout throughout throughout
- 5. A professional portfolio developed by the student throughout the master's program, beginning in Teacher Education 807 or 808. The portfolio is reviewed by two faculty members. A third reviewer is required if the first two reviewers do not reach consensus regarding the acceptability of the portfolio. The submission of an acceptable portfolio satisfies the University's requirement of a final examination or evaluation.

GRADUATE CERTIFICATE IN CHILDREN'S AND YOUNG ADULT LITERATURE

The Graduate Certificate in Children's and Young Adult Literature is designed to provide in-service elementary and secondary teachers with materials and methods for teaching international children's and young adult literature. The focus of the program is on multimodal texts, exploration of the kinds of conversations that surround pieces of literature, and whether those texts are written for children, adults, or both. The program aids understanding classics and awards winners in children's and young adult literature by and about people and communities who have been and continue to be marginalized by and underrepresented in the school curriculum in the United States. The graduate certificate is available only online.

Admission

Students who wish to complete the graduate certificate and are currently enrolled in a graduate degree program at Michigan State University must complete the Intent to Enroll form on the program Web site.

Requirements for the Graduate Certificate in Children's and Young Adult Literature

				CREDITS
Stu	dents r	nust co	mplete 9 credits from the following courses:	
1.	The fo	llowing	courses (3 credits):	
	TE	849	Methods and Materials for Teaching Children's	
			and Adolescent Literature	3
2.	Two o	f the fol	lowing courses (6 credits):	
	TE	836	Awards and Classics of Children's Literature	3
	TE	838	Children's Literature and Film	3
	TE	850	Critical Reading for Children and Adolescents	3
	TE	883	Seminars in Literacy Instruction	1 to 4
	TE	891	Special Topics in Teaching, Curriculum, and Schooling.	1 to 4
	A child	dren's o	r young adult literature course outside the department, as	
	approv	ved by t	he student's academic advisor.	
		-		

GRADUATE CERTIFICATE IN ELEMENTARY STEM EDUCATION

The Graduate Certificate in Elementary STEM Education is designed to provide in-service elementary teachers with knowledge about student learning and engagement and instructional practices in STEM disciplines. The primary focus of the program is understanding inquiry-oriented practices across STEM disciplines. The graduate certificate is available only online.

Admission

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Students who wish to complete the graduate certificate and are currently enrolled in a graduate degree program at Michigan State University must complete the Intent to Enroll form on the program Web site.

Requirements for the Graduate Certificate in Elementary STEM Education

	nts musi (9 credi	t complete three courses from at least two of the categories ts):	CREDITS
	ce Educ		
TE	860	Practice and Inquiry in Science Education	3
TE	861A	Teaching Science for Understanding	3
TE	861B	Inquiry, Nature of Science, and Science Teaching	3
TE	861C	Action Research in K-12 Science Mathematics Classrooms	3

EDUCATION Department of Teacher Education

Techn	ology	Education					
CEP	810	Teaching for Understanding with Technology	3				
CEP	811	Adapting Innovative Technologies to Education	3				
CEP	812	Applying Educational Technology to Issues of Practices	3				
TE	831	Teaching School Subject Matter with Technology	3				
Eleme	ntary E	ducation					
TE	809	Inquiry-Oriented Instructional Strategies for the					
		Elementary Classroom	3				
Mathe	matics	Education					
CEP	805	Learning Mathematics with Technology	3				
TE	855	Teaching School Mathematics	3				
TE	857	Teaching and Learning Mathematical Problem Solving	3				
Specia	Special Topics						
ΤÊ	891	Special Topics in Teaching, Curriculum, and Schooling	1 to 4				

CURRICULUM, INSTRUCTION, AND TEACHER **EDUCATION**

Doctor of Philosophy

The doctoral program in curriculum, instruction, and teacher education 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 program is characterized by its interdisciplinary and interinstitutional perspectives on problems and issues of educational practice.

Doctoral students in curriculum, instruction, and teacher education link their areas of concentration with one or more of the following emphasis areas:

Curriculum, Teaching, and Learning. 1.

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 concentration 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.

Educational Policy and Social Analysis. 2.

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.

Teacher Education and Teacher Learning. 3.

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.

Students who are enrolled in the Doctor of Philosophy degree program in Curriculum, Instruction, and Teacher Education in the Department of Teacher Education may elect a specialization in language and literacy. For additional information, refer to the statement on Graduate Specialization in Language and Literacy below.

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

Admission

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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, Instruction, and Teacher Education

Students must complete the following courses:

Core Proseminar sequence. Both of the following courses:			
TE	901	December in Comission Instruction and Teacher	CREDITS
IE	901	Proseminar in Curriculum, Instruction, and Teacher Education I	3
TE	902		0
		Education II	3
Rese	earch Re	equirement - Educational inquiry and research.	
a.		llowing course:	
	CEP		3
b.		f the following courses in quantitative methodology:	
	CEP	932 Quantitative Methods in	2
	TE	Educational Research I	3
		Educational Research	3
C.	One o	of the following courses in conceptual or qualitative	0
		dology:	
	TE	931 Introduction Qualitative Methods in Educational	
		Research	3
	TE	939A Special Topics in Advanced Qualitative	
	TE	Methodology	3
	IE	939B Advanced Qualitative Methods: Critical Ethnography	3
	TE	939C Advanced Qualitative Methods: Discourse Analysis	3
	TE	939D Advanced Qualitative Methods: Case Studies	3
	TE	939E Advanced Qualitative Methods: Humanities	
		Oriented Research	3
	TE	939F Advanced Qualitative Methods: Phenomenology	3
	TE	939G Advanced Qualitative Methods: Humanizing	3
	A cour	Research-Decolonizing Qualitative Inquiry se used to fulfill this requirement may not be used to fulfill	3
		er requirement.	
d.		or 4 credit course in advanced methodology approved in	
	advan	ce by the guidance committee.	
e.	A rese	arch practicum to be taken after the student has completed	
	the co	urses reference in items 2.a., 2.b., or 2.c. above:	
	TE	995 Research Practicum in Curriculum, Instruction, and	
~			1 to 3
		in education.	
Three courses from a list of approved courses that are designed to pro-			
vide	proad a	nd diverse perspectives on education. The approved list is	

3. available from the Department of Teacher Education.

4. Area of concentration

At least five additional courses in the student's area of concentration. Both the area and the related courses must be approved by the student's quidance committee.

Successful completion and defense of the dissertation. Students may not earn more than 30 credits in TE 999 Doctoral Dissertation Research.

GRADUATE CERTIFICATE IN ENGLISH LANGUAGE LEARNER EDUCATION

The Graduate Certificate in English Language Learner Education is designed for students in doctoral programs who wish to gain a comprehensive understanding of the multiple complexities in educating English Language Learners (ELL) including the influence of the socio-historical, local, and policy contexts and the challenges of teaching learners with diverse levels of English proficiency and prior formal schooling experiences in both English as a second language and content-area classrooms. The graduate certificate provides an overview of the different sociocultural, socio-historical, and sociopolitical factors that influence ELL education; demonstrates different theories, methods, and program models in English as a second language teaching, bilingual education, and content-area teaching; stresses the importance of affirming the linguistic and cultural diversity of ELL's; and offers the knowledge-base and skills in ELL education that students can apply in their own research and teaching in the field of education.

Admission

To be considered for admission to the Graduate Certificate in English Language Learner Education students must be pursuing a doctoral degree program within the College of Education.

Requirements for the Graduate Certificate in English Language Learner Education

CREDITS

Students must complete 12 credits from the following:

۱.	Four of	the fol	lowing courses (12 credits):	
	EAD	907	Educational Policy for Immigrant and ELL Students	3
	LLT	808	Assessment for Language Teaching and Research	3
	LLT	860	Second Language Acquisition.	3
	SOC	852	Migration and Social Change	3
	TE	904	ELL/ESL Research and Practice: K-12	3
	TE	908	Sociohistorical Perspectives on English Language	
			Learners and Second Language Education in	
			the U.S	3
	TE	909	English Language Learners in Content Areas:	
			Constructing Research Communities and	
			Resources	3
	Studen	ts who	wish to take an alternative course (3 or 4 credits) on	
	English	Langu	lage Learners in substitution of a course above must	
	reques	t formal	permission from the graduate certificate program faculty.	
			stitution request will be accepted.	
,			nguage Learners Education research project focusing on	
			to teaching and learning curriculum policy counseling	

2. An English Language Learners Education research project focusing on issues related to teaching and learning, curriculum, policy, counseling, or leadership as they pertain to understanding problems, issues, and potential solutions in ELL education. This requirement can be met through a student's doctoral research practicum requirement or through an independent study project arrangement with a faculty member. The project's topic must be preapproved by the certificate program faculty. The project must result in a paper with a minimum length of 25 pages with references.

GRADUATE CERTIFICATE IN QUALITATIVE RESEARCH METHODS

The Graduate Certificate in Qualitative Research Methods is designed for doctoral students enrolled in College of Education doctoral programs. It focuses on enhancing doctoral students' theoretical and practical preparation and expertise in conceiving, designing, conducting, analyzing, and reporting qualitative research studies as well as preparing them to teach both introductory and advanced courses in qualitative research methods when assuming faculty positions elsewhere.

Admission

To be considered for admission to the Graduate Certificate in Qualitative Research Methods students must be pursuing a doctoral degree program within the College of Education.

Requirements for the Graduate Certificate in Qualitative Research Methods

				CREDITS
St	Students must complete 15 credits from the following:			
1.	Both o	of the fo	llowing courses (6 credits):	
	CEP	930	Educational Inquiry	3
	TE	931		
			Educational Research	3
2.	At least three of the following courses (9 credits):			
	HST	803	Seminar in Methodology of Historical Research	3
	SOC	985	Qualitative Field Research	3
	TE	938		3
	TE	939A		3
	TE		Advanced Qualitative Methods: Critical Ethnography	3
	TE		Advanced Qualitative Methods: Discourse Analysis	3
	TE		Advanced Qualitative Methods: Case Studies	3
	TE	939E	Advanced Qualitative Methods: Humanities	
			Oriented Research	3
	TE		Advanced Qualitative Methods: Phenomenology	3
	TE	939G	Advanced Qualitative Methods: Humanizing	
			Research: Decolonizing Qualitative Inquiry	3
	WRA	870	Research Methodologies in Rhetoric and Composition .	3

GRADUATE CERTIFICATE IN SCIENCE EDUCATION

The Graduate Certificate in Science Education, which is administered by the Department of Teacher Education in the College of Education, is designed for doctoral students who are interested in developing expertise in science education across and within a range of theoretical and methodological perspectives. Cognition, sociocultural, and feminist-critical perspectives along with both qualitative and quantitative methodologies are studied.

Persons who hold degrees in a wide range of disciplines may apply for admission to the certificate program. Applicants without sufficient science or science education background will be required to complete collateral course work or demonstrate proficiency through other means. Collateral course work will not count towards the certificate program. Review of applicants focuses on their study and experience in science and education, on the compatibility between their professional goals and the certificate program, and the potential for successful advanced degree work.

With approval of the College of Education, the certificate is available as an elective to any qualified student who is enrolled in a Doctor of Philosophy degree program in the College of Agriculture and Natural Resources, College of Natural Science, or the College of Education. Students must meet the requirements of the certificate specified below, in addition to the requirements for the student's Doctor of Philosophy degree program.

Requirements for the Graduate Certificate in Science Education

CREDITS

6

3

- 936.
 Students must complete a project under the supervision of a Teacher Education science education faculty member. College of Education studentsmay fulfill the project requirement through a science education-focused research practicum by enrolling in Teacher Education 995 for 1 to 3 credits. Students outside the College of Education can meet this requirement by enrolling in a 1-credit section of Teacher Education 990 Independent Study experience with a Teacher Education faculty member.

GRADUATE SPECIALIZATION IN K-12 ENGLISH AS A SECOND LANGUAGE

The Graduate Specialization in K-12 English as a Second Language, which is administered by the Department of Teacher Education in the College of Education, is designed for students who aspire to become endorsed to teach English as a Second Language at the elementary and/or secondary level in a K-12 setting.

The graduate specialization is available to master's students who are enrolled in the Master of Arts degree in Teaching and Curriculum, the Master of Arts degree in Education, and the Master of Arts degree in Special Education at Michigan State University. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the graduate specialization may also be used to satisfy the requirements for the master's degree. The planned program of courses meets the content knowledge requirements set for by the Michigan Department of Education for the K-12 Endorsement in English as a Second Language (NS).

Requirements for the Graduate Specialization in K-12 English as a Second Language

		CREDITS
	Idents must complete 23 credits from the following:	
1.	All of the following courses (8 credits):	0
	LLT 846 English Structures and Functions English Structures TE 892 ESL/FL Classroom Practices: K-12 Literacy Instruction ESL/FL Classroom Practices: K-12 Literacy Instruction	3
	TE 896 ESL/FL Classicion Fractices. R-12 Eneracy Instruction .	3
2.	One of the following courses (3 credits):	
	TE 845 Language Diversity and Literacy Instruction	
	TE 846 Accommodating Differences in Literacy Learners	3
3.	One of the following courses (3 credits):	3
0.	Elementary Certified Students	
	TE 843 Secondary Reading Assessment and Instruction	3
	Secondary Certified Students	
	TE 842 Elementary Assessment and Instruction.	3
	Michigan Department of Education (MDE) requires whenever teachers add a K-12 endorsement, they must have reading course work for both	
	levels of certification - elementary and secondary. It is assumed, to be in	
	compliance with MDE standards for initial certification, that an	
	elementary certified teacher has already had course work related to	
	elementary reading and, likewise, secondary certified teachers have	
	already had a course in cross-content secondary reading. To earn the	
	K-12 endorsement, teachers need to add the reading course that would	
	extend their certification to include the other level.	
4.	One of the following courses (3 credits):	
	FLT 807 Foreign Language Teaching Methods Solution LLT 807 Language Teaching Methods Solution Solution	3
5.	One of the following courses (3 credits):	5
0.	FLT 808 Assessment for Foreign Language Teaching	3 3
	LLT 808 Assessment for Language Teaching and Research	3
6.	One of the following courses (3 credits):	0
	FLT 860 Foreign Language Acquisition. LLT 860 Second Language Acquisition.	3
	Let 000 Cooline Language Acquisition	5

GRADUATE SPECIALIZATION IN LANGUAGE AND LITERACY EDUCATION

The Graduate Specialization in Language and Literacy Education, which is administered by the Department of Teacher Education, is designed for students who aspire to be scholars, curriculum developers, and policy leaders in literacy at school, district, state, national, and international levels. The specialization focuses on literacy theory, research, and education. It is for students who wish to address issues of language and literacy development, literacy use, literacy instruction, literacy contexts of social, cultural, and linguistic differences, and the possibilities of transforming how people read and take action in their worlds.

The graduate specialization is available as an elective to students who are enrolled in the Doctor of Philosophy degree in Educational Psychology and Educational Technology and the Doctor of Philosophy degree in Curriculum, Instruction and Teacher Education and the Doctor of Philosophy degree in Special Education. Students must meet the requirements of the specialization specified below, in addition to the requirements for the Doctor of Philosophy degree in Educational Psychology and Educational Technology or the Doctor of Philosophy degree in Curriculum, Instruction and Teacher Education or the Doctor of Philosophy degree in Special Education. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the doctoral degree.

For further information visit the Language and Literacy Web site at: http://education.msu.edu/academics/graduate-specializations-certificates/.

Requirements for the Graduate Specialization in Language and Literacy Education

	-	-	-	0000
				CREDITS
1.			wing courses (9 credits):	
	CEP	930	Educational Inquiry 3	
	TE	946	Current Perspectives in Literacy Research	
			and Instruction	
	TE	931	Introduction to Qualitative Methods in Educational	
			Research	
2.			d inquiry/research course related to the student's field	
3.			lowing courses (12 credits):	
	CEP	912	Reading Comprehension: Research and Theory 3	
	CEP	915	Literacy in Sociocultural Context	
	CEP	941	Academic Issues in Special Education for At-Risk	
			Students	
	CEP	980	Writing, Research and Theory 3	
	CEP	981	Research on Literacy and Technology 3	
	TE	904	ELL/ESL Research and Practice: K-12	
	TE	944	Seminar in English Education	
	TE	945	Current Issues in Children's and Adolescent	
			Literature	
	TE	958	History of Literacy Research and Instruction	
	TE	959	Acquisition and Development of Language and	
			Literacy	
	TE	991B	Special Topics in Language and Literacy Education 3	6
	TE	994	Laboratory and Field Experience in Curriculum,	
			Instruction and Teacher Education	
4.			owing research practicums (1 to 3 credits):	
	CEP	995	Practicum in Research Design and Data Analysis 1	to 3
	TE	995	Research Practicum in Curriculum, Instruction and	
			Teacher Education	to 3
			should be focused on a problem in language and literacy	
	educat	ion.		

GRADUATE SPECIALIZATION IN LITERACY AND LANGUAGE INSTRUCTION

The Graduate Specialization in Literacy and Language Instruction, which is administered by the Department of Teacher Education in the College of Education, is designed for students who aspire to develop strong expertise in literacy and language instruction. The specialization is available only online.

The specialization is available as an elective to students who are enrolled in master's degree programs at Michigan State University. With the approval of the department and college that administers the student's degree program, the courses that are used to satisfy the specialization may also be used to satisfy the requirements for the master's degree.

Requirements for the Graduate Specialization in Literacy and Language Instruction

CREDITS

Students must complete the following (21 credits):

All of the following courses (18 credits):				
TE	807	Professional Development and Inquiry		
ΤE	845	Language Diversity and Literacy Instruction		
		and Assessment		
TE	848	Writing Assessment and Instruction		
ΤE	849	Methods and Materials for Teaching Children's		
		and Adolescent Literature 3		
TE	853	Assessing and Responding to Literacy Learning		
		Difficulties I		
ΤE	873	Literacy Leadership		

- 2. One of the following courses (3 credits): TE 842 Elementary Reading Assessment and Instruction3 TE 843 Secondary Reading Assessment and Instruction3