

NEW PROGRAM PROPOSAL FORM

Sponsoring Institution(s): Southeast Missouri State University

Program Title:

Masters of Arts in Teaching: Middle and Secondary Education

Degree/Certificate:

 Masters of Arts in Teaching: 9-12 Mathematics, 9-12 Biology, 9-12 Chemistry, 9-12 Earth Science, 9-12 Physics

• Masters of Arts in Teaching: 5-9 Mathematics or 5-9 Science

Options:

Delivery Site(s): Online

CIP Classification: 13.10

Title: Middle and Secondary Education

Implementation Date: Spring 2018

Cooperative Partners:

*If this is a collaborative program, form CL must be included with this proposal

AUTHORIZATION:

Simin L. Cwick, Ed.D.

Karl R. Kunkel, Ph.D., Provost

Name/Title of Institutional Officer

573-651-5965

Person to Contact for More Information

Telephone



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STUDENT ENROLLMENT PROJECTIONS

Year	AY19	AY20	AY21	AY22	AY23
Full Time	3	5	7	10	10
Part Time	195	10	15	15	15
Total*	8	15	22	25	25

Please provide a rationale regarding how student enrollment projections were calculated:

The Master of Arts in Teaching – Secondary level licensure is designed for students who have an undergraduate degree in one of the following content areas approved by the College of Education - Mathematics, Biology, Chemistry, Earth Science, and/or Physics.

The Master of Arts in Teaching – Middle Level licensure is designed for students who have an undergraduate degree with 24-27 credit hours in one of the following content areas – Mathematics and/or Science.

This program offers an initial Missouri teaching certificate in all of the above areas at the graduate level, parallel to already-approved undergraduate certification programs.

Currently, certification for those students with a bachelor's degree in a content area is through various Alternative Certification programs, offered by the Missouri Department of Elementary and Secondary Education. Southeast Missouri State University offers courses to support state certification requirements, but no independent Alternative Certification program as such.

The Alternative Certification program requires that students be hired by a school district for a content area teaching position, and that they complete a limited number of pedagogy courses while teaching. The College of Education has offered some of these courses. Faculty working with Alternative Certification students have found their preparation is weaker and these teachers tend not to stay in the field due to difficulties with teaching skills. Therefore, the College of Education will be offering this option (MAT) as an alternative pathway to certification as of Spring 2018.

Students will be encouraged to enroll in the Master of Arts in Teaching licensure program, which will follow a stronger program of course work preparation and supervised field experiences, similar to what is offered in our undergraduate licensure program. By instituting this program, the students will earn a master's degree in conjunction with their teaching license without having to take additional undergraduate courses.

Three to four students currently in the Master of Arts in Educational Studies graduate program and one or two in our undergraduate programs may switch over to the MAT as soon as it is approved. The Department Chair regularly receives calls from individuals inquiring about how they can earn a teaching license at the graduate level.

This proposed MAT program is a 37-credit hour program, which students should be able to complete in 2-3 years, depending upon the load taken. It is anticipated there will be a mixture of full time and part-time students in the program.

Provide a rationale for proposing this program, including evidence of market demand and societal need supported by research:

According to the U.S. Bureau of Labor Statistics, "Employment in occupations related to STEM are projected to grow to more than 9 million between 2012 and 2022" (BLS.gov Career Outlook, 2014). The Bureau of Labor Statistics reported that employment opportunities for secondary teachers are expected to grow by 6%, and for middle school teachers by 12%. Increasing enrollment combined with critical teacher shortages have resulted in a continuing increase in student—teacher ratios (Bureau of Labor Statistics, Occupational Outlook Handbook 2015). According to the American Board for Certification of Teacher Excellence, "Many states are facing a critical shortage of teachers with strong backgrounds in science, technology, engineering, and mathematics (STEM)." This STEM shortage is compounding the ongoing crisis in student achievement as a significant percentage of students fall below proficient on state mandated tests (acte.org, 2016).

A review of eleven teacher preparation programs at Missouri public and private institutions found that all programs had one or more combinations of Master of Arts in Teaching, Master of Arts in Education, or Master of Education with initial licensing. Only one program offered a blended (face-to-face/online) model. The rest of the programs were face-to-face models. These programs ranged in credit hours from 24-63, according to the information that was accessible on the university websites. The Southeast Missouri State proposed program is unique because it will be the only such MAT program in Missouri offered 100% online.



Missouri Master of Arts in Teaching Programs Leading to an Initial Teaching Certificate					
University	Credit Hours	Middle	Secondary	Delivery Format	
Maryville University	Estimated 24 hrs.	no	5 th year Chemistry English History Mathematics	Face-to-face	
Fontbonne University	33 hrs.	no	FACS	F-T-F	
Missouri Baptist University	36 hrs.	no	MAT	Blended	
Truman State University	NA	110	MAB K-12 programs and Secondary Sciences English History Mathematics	F-T-F	
Webster University	33	Language Arts Mathematics Science Social Studies	Art (K-12) English (9-12) French (9-12) German (9-12) Mathematics (9-12) Social Studies (9-12) Spanish (9-12) Unified Science: Biology (9-12)	F-T-F	
Drury University	NA	MAT Language Arts Mathematics Science Social Studies	MEd.	F-T-F	
Northwest Missouri State University	32	NA	MSEd Science Agriculture	F-T-F	
Missouri Southern State University	40-43	Add on	MAT	F-T-F Partnership with MSU	
Missouri State University	40-43	Add on	MAT Provisional and alternative certification	F-T-F Partnership with MSSU	
University of Central Missouri	30	MAT In all areas	MAT In all areas	F-T-F	
Lindenwood	45-95	MAT	MAT	F-T-F	



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A. Total credits required for graduation: 37

B. Residency requirements, if any: Students must complete at least 28 hours in residence.

C. General education: Total credits: None

D. Major requirements: Total credits: 37

Course Number	Credits	Course Title
Core Courses	37 total	
SE 602	3	Effective Literacy Instruction at the Middle and Secondary Levels
SE 612	3	Responsive Literacy Interventions for Middle and High School
		Students with Academic Challenges
SE 650	3	Introduction to Teaching Methods in Middle and Secondary Schools
SE 651	3	Introductory Practicum 1 in Middle and Secondary Schools
SE 652 or	4	Intermediate Methods of Teaching in Middle Schools
SE 653	4	Intermediate Methods of Teaching in Secondary Schools
SE 660	3	Intermediate Practicum 2 in Middle and Secondary Schools
SE 654	3	Advanced Methods of Teaching in Middle and Secondary Schools
SE 655	3	Techniques of Teaching STEM Content
SE 670	12	Internship in Middle and Secondary Schools
Required Courses		
Prior to	6 total	
PY222	3	Development of the Adolescent
EX390/635	3	Psychology of the Exceptional Child

E. Free elective credits: None

F. Requirements for thesis, internship or other capstone experience:

Students in this program take a 3-hour course, Advanced Methods of Teaching in Middle and Secondary Schools, which focuses on identifying problems in educational practice and developing interventions. They must implement these interventions in a classroom setting, gather data to measure the impact of interventions, and analyze results, as part of this capstone course. In addition to the capstone course, students must have passed the MoCA for their respective content (pre-admission) and MoPTA assessments during the final practicum, both of which are required for Missouri licensure.

G. Any unique features such as interdepartmental cooperation:

This program is an initial teacher certification program. It requires approval by the Missouri Department of Elementary and Secondary Education (DESE) for graduate licensure, as well as continuing approval each year. An Annual Performance Report (APR) must be submitted to DESE that includes student data, such as exam pass rates, GPA, and Beginning Teacher and Administrator surveys.

Since this program requires field and clinical hours, a Memorandum of Understanding will need to be developed with any P-12 school districts in which students are placed for their internships and practicum with virtual or real time observations and evaluation. This program will also require close collaboration with the College of Education's Office of Certification and Assessment and the Office of Field and Clinical Experiences to ensure graduate students are meeting the state requirements for teacher certification in their content area and grade level licensing requirements.

Finally, this program will require close collaboration with the Southeast Online office to make certain graduate students have a smooth admission and orientation to their online degree studies.

Please provide a brief description of the nature of the state aid. Is "new" money requested or is "old" money going to be used? What is the nature of the "old" money?

All of the courses in this degree program are new to the department. Full-time faculty will be used to teach these courses and supervise the two internships/practicum for the first year or two, depending on the number of students enrolled. The load will be covered under the .5 FTE open position in the department. This position is a shared STEM education faculty line in collaboration with the department of Elementary, Early and Special Education. This position was recently reallocated to the department due to the reallocation of resources within the College of Education to internally fund the associate dean.

The department will collaborate with the Office of Field and Clinical Experiences for supervision of the student teaching internship/practicum, which may require additional part-time salary for virtual or real-time supervision. Currently, field supervisors are paid approximately \$600 per student for supervision of student teaching, and this amount was used to estimate the faculty expenses for internship supervision. The revenue amounts are based upon the graduate online tuition fees for FY2018 of \$334 per credit hour and the predicted enrollment of part-time/full-time students each year. The predicted enrollment is a conservative estimate, given the state exam licensure requirements.



PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name

Southeast Missouri State University

Program Name

Master of Arts in Teaching: Middle and Secondary Education

Date:

October 2016

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below. Quantification of performance goals should be included wherever possible.)

1. Student

Preparation

Any special admissions procedures or student qualifications required for this
program which exceed regular university admissions, standards, e.g., ACT score,
completion of core curriculum, portfolio, personal interview, etc. Please note if no
special preparation will be required.

Master of Arts in Teaching: Middle and Secondary Education Admission Requirements

Middle and Secondary Education:

Full Admission:

- 2.75 Cumulative Undergraduate GPA
- 3.0 Content GPA (middle or secondary)
- Pre-Requisite Courses:
 - PY222 Adolescent Development (or equivalent course)
 - EX 390 Psychology of the Exceptional Child or EX 635 Psychology of the Exceptional Child (or equivalent course)
- Passing Score: Missouri Content Assessment Exam (MoCA) for the candidate's selected licensing area in middle or secondary
- Completion of Missouri Educator Profile (MEP)

Probationary Admission

Pre-Requisite or Co-Requisite Courses: (one semester to complete)
 PY 222 Adolescent Development (or equivalent course)
 EX 390 or EX 635 Psychology of the Exceptional Child (or equivalent course)

Characteristics of a specific population to be served, if applicable.

The courses are open to students who have completed a bachelor's degree in a content area or those with 24-27 credit hours of content/STEM discipline courses in their undergraduate degree.

2. Faculty Characteristics

• Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

Faculty must be approved as Graduate faculty, have a terminal degree in Education, certification in the course work they are teaching, and at least five years' teaching experience in a P-12 setting.

• Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

100% of the credit hours will be assigned to full time faculty.

• Expectations for professional activities, special student contact, teaching/learning innovation.

Faculty in this program are expected to do continued professional development activities relating to their assigned course work. Faculty will also serve as advisors for students in this program, which will require contact each semester. The internships and practicums will require close student contact through Blue Button, Skype, or other virtual supervision platforms.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.

 It is estimated that student FTE by the end of five years will be 25 students (10 full time and 15 part time).
- Percent of full time and part time enrollment by the end of five years.

 It is predicted that 33% of the students will be full time and 67% will be part-time students in this master's degree program by the end of five years. The students are more likely to study part-time as the Missouri Department of Elementary and Secondary education allows program matriculants to begin teaching concurrent with enrollment in the MAT.

4. Student and Program

Outcomes

- Number of graduates per annum at three and five years after implementation.
 - 3 Years: Predicted 5 full-time students graduating in the third year, with 10-15 parttime students in progress
 - 5 years: Predicted 10 full-time students graduating in the fifth year and 15 part-time students in progress.

Special skills specific to the program.

Students in this program will develop instructional strategies, assessment and data analysis, and classroom management skills needed by middle and secondary teachers.

· Proportion of students who will achieve licensing, certification, or registration.

Since students in this program are required to complete the state certification exams in their content areas prior to their full admission to this program, the graduation rates are anticipated to be 80% based on targeted retention goals.

 Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.

Students in this program are required to complete a performance assessment during their final culminating course (12-credit-hour practicum), which is the Missouri Pre-Service Teaching Assessment (MoPTA). This assessment started in fall 2015 and faculty have embedded the competencies required in this assessment across the program to ensure student success. It is expected that 80% of the students in this program will successfully complete the MoPTA assessment.

Placement rates in related fields, in other fields, unemployed.

This chart from the U.S. Bureau of Labor Statistics has the projected placement rates in middle and

secondary education.

Occupational	<u>-</u>		Change, 2012-22	
Title	Employment, 2012	Projected Employment, 2022	Percent	Numeric
Secondary education teachers	955,800	1,008,7 <u>0</u> 0	6	52,900
Middle school education teachers	614,400	690,400	. 12	76,000

Other related fields for employment include:

- Career and Technical Education Teachers
- Childcare Workers
- Elementary, Middle, and Secondary High School Principals
- Instructional Coordinators
- Teacher Assistants
- · Transfer rates, continuous study.

This graduate program allows for up to 9 hours of transfer credit from an accredited institution. The courses must be equivalent and meet the state certification requirements.

5. Program Accreditation

 Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide a rationale.

This program must be approved by the Missouri Department of Elementary and Secondary Education (DESE). The program will be reviewed by DESE during Fall or Spring 2017.

This program will also be under the umbrella of the College of Education as it seeks renewal of the national accreditation provided by the Council for the Accreditation of Educator Preparation (CAEP) in fall 2018.

6. Alumni and Employer Survey

- Expected satisfaction rates for alumni, including timing and method of surveys. The Missouri Department of Elementary and Secondary Education sends an annual survey to beginning teachers to determine satisfaction with their teacher preparation program in terms of being well prepared for their first year of teaching. These data will be included on the Annual Performance Review published by DESE with target performance at 80% or higher.
- Expected satisfaction rates for employers, including timing and method of surveys.

The Missouri Department of Elementary and Secondary Education also sends an annual survey to administrators of beginning teachers to determine satisfaction with their new teacher in terms of how well prepared the teacher is as a first-year teacher. These data will be included on the Annual Performance Review published by DESE and must target performance at 80% or higher.

7. Institutional Characteristics

 Characteristics demonstrating why your institution is particularly wellequipped to support the program.

Southeast Missouri State University began as a normal college in 1873, providing teacher training, and has a history of producing high quality beginning teachers. The undergraduate middle and secondary programs have continuous national accreditation by the Specialty Program Association (SPA), National Council for the Accreditation of

Teacher Education (NCATE) and state approval by DESE.

The Department of Middle and Secondary Education has offered a Master of Arts in Educational Studies and Educational Technology for over ten years. The Educational Technology program went fully online nine years ago. The department has established a strong track record of effective online curriculum.

Faculty are in the process of taking each online course in this program through the Quality Matters approval process, assuring high quality online instruction. The faculty in this graduate program all have terminal degrees, teaching certification, and experience in their disciplines. Southeast Missouri State University is well-equipped to provide a Master of Arts in Teaching in Middle and Secondary Education as an online graduate program.

Southeast Missouri State University began as a normal college in 1873, providing teacher training, and has a history of producing high quality beginning teachers. The undergraduate middle and secondary programs have continuous national accreditation by the Specialty Program Association (SPA), National Council for the Accreditation of Teacher Education (NCATE) and state approval by DESE.

To: Dr. Simin Cwick, Chair, Middle & Secondary Education

From: Carl Pracht, Professor, College of Education Halson, Kent Library

Barbara Glackin, Dean, Kent Library feb.

Date: October 21, 2016

RE: Library resources evaluation / Masters of Arts in Teaching: Middle and Secondary Education

CC: Dr. Karl Kunkel, Provost and Chair, University Academic Council

Dr. Allen Gathman, Dean and Chair, Graduate Council Dr. Diana Rogers-Adkinson, Dean, College of Education

Conclusion: Kent Library has the resources to support the new Masters of Arts in Teaching program. If, as the curriculum evolves, the Middle & Secondary Education Department, Identifies library resources or collections weaknesses, we respectfully request to be informed so resolutions may be made. Kent Library appreciates the opportunity to serve the College of Education and to continue to support Southeast Missouri State University's mission of original training teachers.

Background:

The proposed Masters of Arts in Teaching: Middle and Secondary Education is a pathway for Missouri teaching certification for students with undergraduate degrees in Biology, Chemistry, Earth Science, Math, and Physics. Courses will be offered online. Kent Library information eResources, resources, and collections were evaluated to determine if current holdings are sufficient to meet the teaching, learning, and research needs of enrolled graduate students and teaching faculty.

Resource summary*:

1) Databases: Through Kent Library, graduate students and faculty have online access to ProQuest Central (including Research Library), JSTOR, and Academic Search Complete, all comprehensive, Interdisciplinary databases. These databases index thousands of journals, books, and other resources, with both current and retrospective content for depth.

Students and faculty have online access to education specific databases such as, Education Database, Teacher Reference Center, Education Full Text, and ERIC (Education Resource Information Center). These discipline-specific databases provide in-depth coverage of education journals, curriculum, and education focused topics like pedagogical research, teaching methods, special education, and science education for example.

There are discipline specific databases for the sciences too; such as Science Reference Center, General Science Full Text, Biology Database, Biological & Agricultural Index Plus, and SciFinder.

- 2) Journals: Kent Library has purposefully migrated the Journal collection online, in addition to full-text journals available through the databases, Kent Library has access to other education, biology, chemistry, earth science, math, and physics titles. eJournal titles include: American Biology Teacher (2005-); American Secondary Education (1996-); Chemistry Education, Research and Practice (2000-); International Journal of Education and Allied Sciences (2010-); International Journal of Environmental & Science Education (2006-); International Journal of Mathematical Education in Science and Technology (1998-); Journal of Chemical Education (1994-); Journal of Microbiology & Biology Education (2000-); Journal of Outdoor and Environmental Education (1999-); Journal of Science Teacher Education (2001-); Journal of STEM Education (2014-); K-12 STEM Education (2015-); Mathematics Teaching in the Middle School (1998-); Physics Education (1969-); The Physics Teacher (1963-); and The Science Teacher (1989-).
- 3) Books & eBooks: Kent Library's book and eBook titles are discoverable through the online catalog or the Ebsco eBook platform. An eBook search finds: 25,203 education titles; 3,790 biology titles; 3,991 chemistry titles; 4,015 earth sciences titles; 9,303 mathematics titles; and 7,482 physics titles.

The Library print collection includes thousands of relevant titles. Works published since 2000 by subject area include: education 9,447; biology 1,547; chemistry 819; earth sciences 418; mathematics 1,548; and physics 885.

Kent Library is a member of the MOBIUS library consortium, with a union catalog of more 27 million items. A courier service delivers materials to member libraries every week day. The Library also participates in the illiad interlibrary Loan program where more than 10,000 libraries internationally share their resources. Both services are free to enrolled students. The Kent Library document delivery service provides electronic copies of journal articles to enrolled students.

4) Streaming Videos: The Library provides access to educational and documentary films through online platforms. The two largest platforms are Kanopy and Films On Demand. For Kanopy a subject/keyword searches find: 433 education, 198 biology, 116 chemistry, 1,728 earth sciences, 133 mathematics, and 474 physics videos. In Films On Demand there are: 665 education, 1,807 biology, 257 chemistry, 475 earth sciences, 506 mathematics, and 390 physics titles. The platforms support unlimited, simultaneous access, are device agnostic, and easily allow filpping the classroom, with Southeast Missouri State University students individually viewing videos followed by online group discussion. [Note: Platform licenses do not include viewing within the K-12 school systems.]

Kent Library provides research and reference assistance to students. Graduate students are encouraged to schedule an individual research consultation with a librarian. Consultations can occur via Skype, Facetime, or other interface or by telephone. Chat reference assistance is also available 24x7.

*Full Kent Library resources review is provided.

Kunkel, Karl R

From:

Calle, Chelsea

Senta Subject: Thursday, June 01, 2017 8:30 AM

To:

Kunkel, Karl R **MAT-STEM Endorsement**

Dr. Kunkei,

I have been in communication with Simin Cwick regarding a proposed program for MAT – STEM fields. Simin has Indicated to me the program will be offered fully online and will be structured closely to our current MAT program in exceptional child studies.

When alternative certification because an impossibility in the state, we have seen a real need for programs like this to allow those educated in specific disciplines (without a specific degree in teaching) a pathway to teach in our K-12 system. The MAT programs provide a solution.

Given that this proposed program will focus on STEM which is a high-demand field, and that it will be online making it convenient for learners to complete classes, I endorse this program and will support it will all resources available at Southeast Online.

If you need additional research or information in reference to this program please don't hesitate to contact me.

Chelsea Calle Director, Southeast Online Programs 573-651-2766

Sikeston R-6 Schools

Office of the Superintendent 1002 Virginia Street • Sikeston, Missouri 63801 • Telephone (573) 472-2581

May 25, 2017

Dr. Simin Cwick, Ed.D Southeast Missouri State University scwick@semo.edu

Dear Dr. Cwick:

Sikeston R-6 Schools is constantly reaching out to colleges and universities across the state and beyond in its endeavors to hire qualified teachers in all subjects, but more specifically in math and science. Our district is currently attempting to establish a Grow Your Own teacher program to encourage and financially support our high school to pursue the educational field.

With that being said, Sikeston R-6 Schools supports the initiative of allowing students with the degrees in Math, Biology, Chemistry, Earth Science and Physics the opportunity to pursue a Master of Arts in Teaching degree in addition to obtaining their teaching certificate. Any opportunity such as this would be a benefit to the school districts within our region.

Thank you for your dedication to the educational field.

Respectfully,

Thomas A. Williams
Superintendent of Schools

TAW/kam



CAPE GIRARDEAU

Every student .. every day!

Superintendent Dr. James Welker

Assistant Superintendent Administrative Services Dr. Nell Glass

> Director Special Services Deena Ring

Director Academic Services Christa Turner May 24, 2017

To Whom It May Concern,

This letter is in support of the Master of Arts in Teaching licensure program proposed by the Department of Middle & Secondary Education at Southeast Missouri State University. Cape Girardeau Public Schools recognizes the importance of having high quality teachers, particularly in the areas of Science, Technology, Engineering and Math. This program will help to ensure that there are enough teachers available to fill the growing demand in these areas.

We have been very pleased with the quality of graduates from Southeast Missouri State University who we have hired as teachers. As a result, we support the Master of Arts in Teaching licensure program as an opportunity to meet future needs of our district,

Sincerely,

James Wolfer Ed D

James L. Welker, Ed.D. Superintendent

301 N CLARK STREET • CAPE GIRARDEAU, MO 63701 • PHONE: 573-335-1867 • FAX: 573-335-1820