2012 State Teacher Policy Yearbook

Improving Teacher Preparation in Michigan



Acknowledgments

STATES

State education agencies remain our most important partners in this effort, and their continued cooperation has helped to ensure the factual accuracy of the final product. Although this year's edition did not require the extensive review that the comprehensive editions require, we still wanted to make sure that we captured all relevant policy changes and that states' perspectives were represented. Every state formally received a draft of the policy updates we identified in July 2012 for comment and correction; states also received a final draft of their reports a month prior to release. All but one state responded to our inquiries. We thank the states for their ongoing willingness to engage in dialogue with us.

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Improving Teacher Preparation in Michigan

The 2012 State Teacher Policy Yearbook puts a spotlight on the critical issue of teacher preparation. The 2011 edition of the Yearbook provided a comprehensive review of all aspects of states' teacher policies, and although considerable progress was noted in areas related to teacher effectiveness, the same could not be said for teacher preparation. While many states have made advancements in teacher evaluation and tenure requirements, teacher preparation has yet to capture states' attention.

Good preparation does not guarantee that teachers will ultimately be effective, but there is much more that can be done to help ensure that new teachers are "classroom ready." This edition of the *Yearbook* offers states a roadmap of their teacher preparation policies, identifying priorities that need critical attention and also identifying low-hanging fruit, policy changes that states can implement in relatively short order.



Current Status of Michigan's Teacher Preparation Policy

Last year's *State Teacher Policy Yearbook* provided an in-depth analysis of each of the topics identified below. The 2012 score includes any policy changes identified in the last year. The year symbol indicates a score increase from 2011.

Yearbook Goal	Торіс	2012 Score
1-A	Admission into Preparation Programs	
1-B	Elementary Teacher Preparation	•
1-C	Elementary Teacher Preparation in Reading Instruction	
1-D	Elementary Teacher Preparation in Mathematics	
1-E	Middle School Teacher Preparation	<u> </u>
1-F	Secondary Teacher Preparation	
1-G	Secondary Teacher Preparation in Science	
1-H	Secondary Teacher Preparation in Social Studies	
1-I	Special Education Teacher Preparation	
1-J	Assessing Professional Knowledge	
1-K	Student Teaching	0
1-L	Teacher Preparation Program Accountability	0



2012 Policy Update for Michigan

Based on a review of state legislation, rules and regulations, NCTQ has identified the following recent policy changes in Michigan:

Content Test for Elementary Teachers

Effective September 1, 2013, elementary teachers will have to pass the MTTC Elementary Certification 1 and Elementary Certification 2 tests. The first test includes English language arts and world languages, social studies, and visual and performing arts. The second includes math, science, and health education and physical education. www.mttc.nesinc.com

Michigan Response to Policy Update

States were asked to review NCTQ's identified updates and also to comment on policy changes related to teacher preparation that have occurred in the last year, pending changes or teacher preparation in the state more generally. States were also asked to review NCTQ's analysis of teacher preparation authority (See Figure 20).

Michigan was helpful in providing NCTQ with additional information about policy changes related to teacher preparation. The state noted that its expanded elementary content examination is aligned to its standards for elementary teacher preparation, which were approved in 2008.

Michigan added that it has revised its corrective action steps for Level 3 and added a Level 4 corrective action designation for teacher preparation programs. These became effective with the release of preparation program performance scores in August 2012.

Regarding its alternate routes, the state also delineated the eligibility requirements for its "Interim Certificate," which are included in the 2011 State Teacher Policy Yearbook. Michigan added that alternate routes are authorized by MCL 380.1531i, and that in accordance with the revised code, "program providers must have a proven record of producing successful teachers in one or more other states or the alternate route program must be modeled after a program that has a proven record of producing successful teachers in one or more other states in order to prepare those interested in a teaching career."

Michigan was also helpful in providing NCTQ with additional information about state authority for teacher preparation and licensing.

Figure 1	/	/
Delivering well-	2012	2011
prepared teachers	Grade	2011 Grade
Alabama	B-	С
Alaska	F	F
Arizona	D-	D-
Arkansas	С	С
California	D	D
Colorado	D	D-
Connecticut	C+	C-
Delaware	D-	D-
District of Columbia	D	D
Florida	B-	B-
Georgia	С	С
Hawaii	D	D
Idaho	D	D
Illinois	D	D
Indiana	B-	C+
lowa	D	D D
Kansas	D+	D+
		C-
Kentucky	C+	
Louisiana	С	С
Maine	D+	D
Maryland	D+	D+
Massachusetts	C+	C+
MICHIGAN	D+	D+
Minnesota	C+	С
Mississippi	С	С
Missouri	D+	D+
Montana	F	F
Nebraska	D-	D-
Nevada	D-	D-
New Hampshire	C-	D
New Jersey	C-	D+
New Mexico	D+	D+
New York	C-	D+
North Carolina	D-	D-
North Dakota	D	D
Ohio	C-	D+
Oklahoma	С	С
Oregon	D-	D-
Pennsylvania	С	С
Rhode Island	С	D+
South Carolina	C-	C-
South Dakota	D	D
Tennessee	B-	B-
Texas	C+	C+
Utah	D	D
Vermont	C-	D+
Virginia	C-	C-
Washington	D+	D+
West Virginia	C-	C-
Wisconsin	D+	D
Wyoming	F	F
Average State Grade	D+	D

COMING SOON

NCTQ Teacher Prep Review

Preparing teachers to be effective and successful in the classroom requires both the strong state policy framework described in the *Year-book* and quality implementation by states' teacher preparation programs.

How are **Michigan's** programs doing? NCTQ will soon answer that question with our forthcoming review of the nation's higher education-based teacher preparation programs that produce 99 percent of traditionally-prepared teachers. The *Review* will find the programs that are doing the best job preparing tomorrow's educators, those that need to improve and those that need to be radically restructured.

The *Review* will be released in Spring 2013. Find out more at www.nctq.org/p/edschools.

For a sneak peek, see page 6.

Teacher Preparation Policy Checklist for States

1.	Raise admission standards.	 Require teacher candidates to pass a test of academic proficiency that assesses reading, writing and mathematics skills as a criterion for admission into teacher preparation programs. Require preparation programs to use a common test normed to the general college-bound population.
2.	Align teacher preparation with Common Core State Standards.	 Ensure that coursework and subject-matter testing for elementary teacher candidates are well aligned with standards. Ensure that teacher preparation programs prepare elementary teaching candidates in the science of reading instruction and require a rigorous assessment of reading instruction. Require teacher preparation programs to provide mathematics content specifically geared to the needs of elementary teachers.
3.	Improve clinical preparation.	 Ensure that cooperating teachers have demonstrated evidence of effectiveness as measured by student learning. Require summative clinical experience for all prospective teachers that includes at least 10 weeks of full-time student teaching.
4.	Raise licensing standards.	 ✓ Eliminate K-8 generalist licenses. ✓ Require subject-matter testing for middle school teacher candidates. ✓ Require subject-matter testing for secondary teacher candidates. ✓ Require middle school and secondary science and social studies teachers to pass a test of content knowledge that ensures sufficient knowledge of the subjects taught.
5.	Don't lower the bar for special education teachers.	 ✓ Do away with K-12 special education teacher licenses. ✓ Require special education teachers to pass a subject-matter test for licensure that is no less rigorous than what is required of general education candidates.
6.	Hold teacher preparation programs accountable.	 Collect data that connect student achievement gains to teacher preparation programs. Gather other meaningful data that reflect program performance. Establish the minimum standard of performance for each category of data. Produce and publish an annual report card for each teacher preparation program.

Critical Issues for State Teacher Preparation Policy

Critical Attention: Admission into Teacher Preparation Programs



Michigan does not ensure that teacher preparation programs admit candidates with strong academic records.

The demands of K-12 classrooms today require teachers with strong academic backgrounds who can positively affect student learning. To ensure that such strong candidates enter classrooms, it is important to set rigorous standards for entry into the teacher pipeline. This begins with teacher preparation program admissions.

Looking to international examples, such top-performing countries as Finland and South Korea admit prospective teacher candidates from the top 10 percent of the college-going population. While a bar that high is a long way from average standards in the United States, it seems reasonable and appropriate that states should limit access to teacher preparation programs to those who are in the top half of the college-going population in terms of academic achievement.

Most states limit their academic screening to basic skills tests, which generally assess only middle school-level skills and which are generally only normed to the prospective teacher population.

At present, Michigan does not require prospective teachers to pass a test of academic proficiency as a criterion for admission to teacher preparation programs. Rather,

the basic skills assessment requirement is delayed until teacher candidates are ready to student teach. In addition, the state's current requirement of a "C" average is too low to be considered a rigorous bar for program admission.

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, MICHIGAN, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming Illinois

NEXT STEPS FOR MICHIGAN:

Require that teacher preparation programs screen candidates for academic proficiency prior to admission.

Teacher preparation programs that do not screen candidates invest considerable resources in individuals who may not be able to successfully complete the program and pass licensing tests. Candidates in need of additional support should complete remediation before entering the program to avoid the possibility of an unsuccessful investment of significant public tax dollars. Michigan should require candidates to pass a test of academic proficiency that assesses reading, mathematics and writing prior to program admission. Importantly, candidates should be permitted to submit comparable scores on such rigorous tests as the SAT/ACT/GRE.

Require that programs use a common admissions test normed to the general collegebound population.

Michigan should require programs to use an assessment that demonstrates that candidates are academically competitive with all peers, regardless of their intended profession. Requiring a common test normed to the general college population would allow for the selection of applicants in the top half of their class while also facilitating program comparison.

Increase the GPA requirement.

Requiring only a "C" average GPA sets a very low bar for the academic performance of the state's prospective teachers. Michigan should consider using a higher GPA requirement for program admission in combination with a test of academic proficiency. A sliding scale of GPA and test scores would allow flexibility for candidates in demonstrating academic ability. When using such multiple measures, a sliding scale that still ensures minimum standards would allow students to earn program admission through a higher GPA and a lower test score, or vice-versa.

Consider requiring candidates to pass subject-matter tests as a condition of admission into teacher programs.

In addition to ensuring that programs require a measure of academic performance for admission, Michigan might also want to consider requiring content testing prior to program admission as opposed to at the point of program completion. Teacher candidates are likely to have completed coursework that covers related subject-matter content in the prerequisite classes required for program admission. Thus, it would be sensible to have candidates take content tests while this knowledge is fresh rather than wait two years to fulfill the requirement, and candidates lacking sufficient expertise would be able to remedy deficits prior to entering formal preparation.

SNEAK PEEK: Teacher Prep Review

Are Michigan's undergraduate teacher preparation programs in the Review sufficiently selective?

64% are not sufficiently selective.

The Review will be released in Spring 2013. Find out more at www.nctq.org/p/edschools.

> 1. New Hampshire is in the process of adopting a requirement that will make the test a condition of admission.

Figure 2 Do states appropriately test teacher candidates'	Q	SON TO REPROPER Test nomed my to Read to Proposition to prep pre before	Test nomed only to test	or after program	
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Vermont					
Virginia					
Washington West Virginia					
Wisconsin					
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Critical Attention: Elementary Teacher Preparation



Michigan does not ensure that new elementary teachers are ready to teach to the Common Core Standards.

To be effective, elementary teacher candidates need liberal arts coursework relevant to the K-6 classroom, and they should also be required to pass a rigorous content test that ensures appropriate subject-matter knowledge.

The Common Core State Standards, adopted by nearly all states including Michigan, represent an effort to significantly raise expectations for the knowledge and skills American students will need for college readiness and global competitiveness. And Michigan, like all states, must ensure that its teachers are prepared to teach to these high standards.

Although a "standards-based" approach grants greater flexibility to teacher preparation programs regarding program design, it is difficult to monitor or enforce absent a rigorous test. Further, alignment of preparation program instruction with student learning standards should be augmented with a broader and deeper content perspective than what will actually be taught in the elementary classroom.

Unfortunately, Michigan's policies fail to ensure that elementary teacher candidates will have the subject-area knowledge necessary to teach to these standards. The state does not require a subject-matter test that reports subscores in all areas, and its coursework requirements lack the specificity to guarantee relevancy to the

elementary classroom. In addition, Michigan does not ensure that teachers will be adequately prepared in the science of reading instruction, another key element of the Common Core State Standards.

NEXT STEPS FOR MICHIGAN:

Require elementary teacher candidates to pass a subject-matter test designed to ensure sufficient content knowledge of all subjects.

Michigan should ensure that its elementary content test is appropriately aligned with the Common Core State Standards and require separate, meaningful passing scores for each area on the test. Although Michigan is on the right track by now administering a two-part licensing test, thus making it harder for teachers to pass if they fail some subject areas, the state is encouraged to further strengthen its policy and require separate passing scores for each core subject on its multiple-subject test.

■ Require teacher preparation programs to provide mathematics content specifically geared to the needs of elementary teachers and require candidates to pass a rigorous math assessment.

Although Michigan requires mathematics coursework, the state should require teacher preparation programs to provide mathematics content specifically geared to the needs of elementary teachers. This includes specific coursework in foundations, algebra and geometry, with some statistics. Michigan should also require a rigorous assessment that reports a separate subscore for and evaluates mathematics knowledge beyond an elementary school level and challenges candidates' understanding of underlying mathematics concepts.

Alaska, Arizona, Arkansas, Colorado, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, MICHIGAN, Mississippi, Missouri, Montana, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming

Alabama, California, Connecticut, Indiana, Minnesota, New Hampshire

Massachusetts

■ Require teacher candidates to pass a rigorous assessment in the science of reading instruction.

Michigan should require a rigorous reading assessment to ensure that its elementary teacher candidates are adequately prepared in the science of reading instruction before entering the classroom. The assessment should clearly test knowledge and skills related to the science of reading, and if it is combined with an assessment that also tests general pedagogy or elementary content, it should report a subscore for the science of reading specifically.

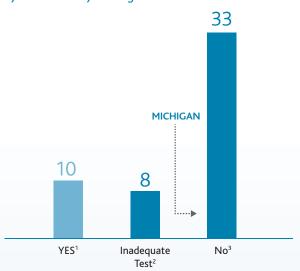
Ensure that teacher preparation programs deliver a comprehensive program of study in broad liberal arts coursework.

Although Michigan outlines a more specific set of content standards than most states, it should either articulate a more specific set of standards or establish more comprehensive coursework requirements for elementary teacher candidates that align with the Common Core Standards to ensure that candidates will complete coursework relevant to the common topics in elementary grades. An adequate curriculum is likely to require approximately 36 credit hours in the core subject areas of English, science, social studies and fine arts.

Require elementary teacher candidates to complete a content specialization in an academic subject area.

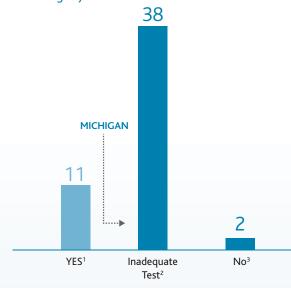
Michigan's policy requiring elementary candidates to earn an academic major or minor is undermined because it may be met through a "group" approach. Unlike an academic major or minor, this approach will not necessarily enhance teachers' content knowledge or ensure that prospective teachers have taken higher-level academic coursework. Further, it does not provide an option for teacher candidates unable to fulfill student teaching or other professional requirements to still earn a degree, as an academic major does.

Figure 3 Do states measure new teachers' knowledge of the science of reading?



- 1. Strong Practice: Alabama⁴, Connecticut, Massachusetts, Minnesota⁵, New Hampshire, New Mexico⁶, Oklahoma, Tennessee, Virginia, Wisconsin
- 2. California, Florida, Georgia, Idaho, New York, Oregon, Pennsylvania, Texas
- 3. Alaska, Arizona, Arkansas, Colorado, Delaware, District of Columbia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Mississippi, Missouri, Montana, Nebraska, Nevada, New Jersey, North Carolina⁷, North Dakota, Ohio, Rhode Island, South Carolina, South Dakota, Utah, Vermont, Washington, West Virginia, Wyoming
- 4. Alabama's reading test spans the K-12 spectrum.
- 5. Based on the limited information available about the test on Minnesota's website.
- 6. Test is under development and not yet available for review.
- 7. North Carolina has adopted a task force recommendation to require the Foundations of Reading test. Rules have yet to be promulgated, including whether the test will be required for initial licensure. Current rules require such tests for professional licensure only.

Figure 4 Do states measure new elementary teachers' knowledge of math?

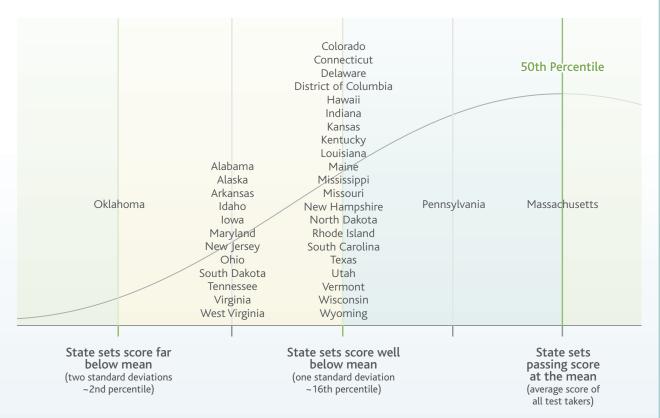


- 1. Strong Practice: Alabama, Connecticut, Indiana, Kentucky, Massachusetts, Minnesota, New Hampshire, New Jersey, Rhode Island, Utah, Vermont
- 2. Alaska, Arizona, Arkansas, California, Colorado, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Iowa, Kansas, Louisiana, Maine, Maryland, Michigan, Mississippi, Missouri, Nevada, New Mexico, New York⁴, North Carolina⁵, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Virginia, Washington, West Virginia, Wisconsin, Wyoming
- 3. Montana, Nebraska
- 4. New York is in the process of developing a stand-alone math test.
- 5. North Carolina has adopted a task force recommendation to require the Massachusetts Test of General Curriculum, including the math subtest. Rules have yet to be promulgated, including whether the test will be required for initial licensure. Current rules require such tests for professional licensure only.
 - 1. Testing is not required for initial licensure.
 - 2. The required test is a questionable assessment of content knowledge, instead emphasizing methods and instructional strategies.
 - 3. Massachusetts requires a general curriculum test that does not report scores for each elementary subject. A separate score is reported for math (see Figure 4).
 - 4. North Carolina has adopted a task force recommendation to require the Massachusetts Test of General Curriculum. Rules have yet to be promulgated, including whether the test will be required for initial licensure. Current rules require such tests for professional licensure only.
 - 5. Oregon allows "alternative assessment" for candidates who fail twice.

Figure 5	EEMENTARY CONTENT SCORE FOR	CACH-SUBJECT Separate passing Separate passin	Elementary content to	/ Nith	
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Figure 7
Where do states set the passing score on elementary content licensure tests¹?



¹ Based on the most recent technical data that could be obtained; data not available for Arizona, California, Florida, Georgia, Illinois, MICHIGAN, Minnesota, Nevada, New Mexico, New York, North Carolina, Oregon and Washington. Montana and Nebraska do not require a content test. Colorado score is for Praxis II, not PLACE. Alabama, Connecticut, Indiana, Kentucky, New Hampshire, New Jersey, Rhode Island, Utah and Vermont now require the Multiple Subjects test and Maryland, Nevada and South Carolina now require the Instructional Practice and Applications test. Both are new Praxis tests for which technical data are not yet available; analysis is based on previously required test.

Figure 8

Teacher licensing structure in Michigan



Critical Attention: Middle School Teacher Preparation



Michigan does not ensure that new middle school teachers will be prepared to teach appropriate grade-level content.

The middle school years are critical to students' education, yet the preparation and licensure requirements for middle school teachers often do not ensure that they are sufficiently prepared to teach grade-level content.

Too many states, including Michigan, fail to distinguish the knowledge and skills needed by middle school teachers from those needed by an elementary teacher. Whether teaching a single subject in a departmentalized setting or teaching multiple subjects in a self-contained classroom, middle school teachers must be able to teach significantly more advanced content than what elementary teachers are expected to teach.

Regrettably, Michigan allows middle school teachers to teach on a generalist K-8 license if they are assigned to self-contained classrooms.

Candidates earning the K-8 certification are required to complete a major of not less than 30 semester hours or a group major of 36 semester hours, plus a "planned program" of 20 semester hours in

Alaska, Arizona, California, Idaho, Illinois, Iowa, Maine, MICHIGAN, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Carolina, North Dakota, Oklahoma, Oregon, South Dakota, Tennessee, Texas, Utah, Washington, Wisconsin, Wyoming

Maryland, Massachusetts, New York

Alabama, Arkansas, Colorado,
Connecticut, Delaware, District of
Columbia, Florida, Georgia, Hawaii,
Indiana, Kansas, Kentucky, Louisiana,
Mississippi, Missouri, New Jersey,
Ohio, Pennsylvania, Rhode Island,
South Carolina, Vermont, Virginia,
West Virginia

"other fields deemed appropriate to elementary education." Further, those teaching middle grades on a generalist license need only pass the general subject-matter test for elementary education.

NEXT STEPS FOR MICHIGAN:

■ Eliminate the generalist license.

Teachers with a K-8 license are less likely to be adequately prepared to teach core academic areas at the middle school level because their preparation requirements are not specific to the middle or secondary levels. By requiring specific middle grades certification, Michigan will help ensure that students in those grades have teachers who are appropriately prepared to teach grade-level content, which is different and more advanced than what elementary teachers teach.

Require content testing in all core areas.

As a condition of initial licensure, all candidates teaching middle grades in Michigan should have to pass a subject-matter test in every core academic area they intend to teach.

■ Encourage middle school teachers licensed to teach multiple subjects to earn two subjectmatter minors.

This would allow candidates to gain sufficient knowledge to pass state licensing tests and be highly qualified in both subjects, and it would increase schools' staffing flexibility. However, middle school candidates in Michigan who intend to teach a single subject should earn a major in that area.

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South Dakota				California offers a K-12 generalist license for self-contained classrooms.
Tennessee –				Illinois has repealed its K-9 license and is in
Texas				the process of revising middle school certifi-
Utah				cation requirements.
Vermont				3. With the exception of mathematics.
Virginia				4. Oregon offers 3-8 license.
Washington				5. Wisconsin offers 1-8 license.
West Virginia			5	
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nave to pass an appropria content test in every core		No, test does not	No, K.8 license required	No testing of all subjects	
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New Hampshire					
New Jersey					
New Mexico					
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Pennsylvania					4. It is unclear how ne
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South Carolina					candidates.
South Dakota					5. Maryland allows ele in departmentalized
Tennessee					than 50 percent of
Texas					within the elementa
Utah					6. For nondepartmenta in middle childhood
Vermont					pass new assessmen
Virginia					7. Candidates opting f
Washington					may either complet test. Oregon allows
West Virginia					candidates who fail
Wisconsin					
Wyoming					

- ltiple subjects only have est.
- o requires a single-
- -9 license. The state ng its middle school
- islation will affect middle school
- tary teachers to teach dle schools if not less eaching assignment is ducation grades.
- d classrooms, generalist cation candidates must th three subtests.
- ddle-level endorsement najor or pass a content rnative assessment" for

Critical Attention: Secondary Teacher Preparation



Michigan could do more to ensure that new secondary teachers will be prepared to teach appropriate grade-level content.

Secondary teachers must be experts in the subject matter they teach, and only a rigorous test ensures that teacher candidates are sufficiently and appropriately knowledgeable in their content area. Coursework is generally only indicative of background in a subject area; even a major offers no certainty of what content has been covered.

Yet not all states ensure that secondary teachers have sufficient content knowledge in the subjects they are licensed to teach. And nearly all states—even those that do generally require content testing for secondary teachers—allow some science and/or social studies teachers to teach with broad licenses that have significant loopholes.

Most high school science courses are specialized, and the teachers of these subjects are not interchangeable. Nonetheless, most states allow teachers to obtain general science or combination licenses across multiple science disciplines, and, in most cases, these teachers need only pass a general knowledge science exam that does not ensure subject-specific content knowledge. This means that a teacher with a background in biology could be fully certified to teach advanced chemistry or

physics having passed only a general science test—and perhaps answering most of the chemistry or physics questions incorrectly.

Just as with broad field science, most states offer a general social studies license at the secondary level. For this certification, teachers can have a background in a wide variety of fields, ranging from history and political science to anthropology and psychology. Under such a license a teacher who majored in psychology could teach history to high school students having passed only a general knowledge test and answering most—and perhaps all—history questions incorrectly.

Commendably, Michigan requires that its secondary teacher candidates pass a content test to teach any core secondary subjects. However, Michigan offers secondary certification in integrated science, the state's version of general science, which allows candidates to teach integrated science, biology, chemistry, physics and earth/ space science at the secondary level. The state also offers certification in physical science, which combines physics and chemistry. Further, Michigan offers secondary certification in general social studies. Teachers with these licenses are not required to pass individual content tests for each discipline they are permitted to teach.

NEXT STEPS FOR MICHIGAN:

Require secondary science teachers to pass a content test for each discipline they are licensed

By allowing a general science certification—and only requiring a general knowledge science exam— Michigan is not ensuring that these secondary teachers possess adequate subject-specific content knowledge. The state's required assessment combines all subject areas (e.g., biology, chemistry, phys-

Alaska, Arizona, California, Colorado, Iowa, Montana, Nebraska, New Hampshire, North Carolina, Oregon, Washington, Wyoming

Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, MICHIGAN, Mississippi, Missouri, Nevada, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina. South Dakota, Texas, Utah, Vermont, Virginia, West Virginia, Wisconsin

Indiana, Minnesota, Tennessee

ics) and does not report separate scores for each subject area. Michigan's required assessment for its physical science license also combines subject areas without reporting individual subscores.

Require secondary social studies teachers to pass a content test for each discipline they are licensed to teach.

By allowing a general social studies certification—and only requiring a general knowledge social studies exam—Michigan is not ensuring that its secondary teachers possess adequate subject-specific content knowledge. The state's required assessment combines all subject areas (e.g., history, geography, economics) and does not report separate scores for each subject area.

It is unclear at this point how new legislation will affect content test requirements for secondary teachers.

Figure 11 Do all secondary tead		Loophole is	/ _{UCe} /	No "I social studies	/
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Critical Attention: Special Education Teacher Preparation



Michigan does not ensure that new special education teachers will know the subject matter that they will be required to teach.

Across the country, states are raising performance expectations to ensure that students who graduate from high school are college and career ready. These more rigorous standards apply to special education students just as they do to other students.

The challenge of ensuring that teachers are prepared to teach to the new Common Core State Standards is even more pronounced for special education teachers, who typically have had to meet an even lower bar for content preparation than general educators. And certification rules for special education teachers that do not differentiate between teaching at the elementary and secondary levels only exacerbate the problem.

Allowing a generic K-12 special education certification makes it virtually impossible and certainly impractical for states to ensure that these teachers know all the subject matter they are expected to teach; this issue is just as valid in terms of pedagogical knowledge.

While a K-12 special education license may be appropriate for low-incidence special education students, such as those with severe cognitive disabilities, it is deeply problematic for the overwhelming majority of high-incidence special education students who are expected to learn grade-level content.

Regrettably, Michigan only offers a generic K-12 special education certification. All special education teachers must first earn an initial teaching certificate at either the elementary or secondary level. Therefore, elementary special education teachers who earn the initial elementary certificate are held to the same preparation and testing requirements as general elementary teachers. However, as noted in the elementary section, these standards are insufficient to ensure that teachers will be prepared to teach to the Common Core State Standards. Content testing for secondary teachers depends on the initial certification.

NEXT STEPS FOR MICHIGAN:

■ Eliminate licenses for special education that do not differentiate between the preparation of elementary teachers and that of secondary teachers.

Michigan's current model does little to protect some of its most vulnerable students. Failure to ensure that special education teachers are well trained in specific content areas deprives these students of the opportunity to reach their academic potential. Michigan should limit high-incidence special education certifications to elementary or secondary grades.

Alaska, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Kansas, Kentucky, MICHIGAN, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Mexico, Nevada, North Carolina, North Dakota, Ohio, Oklahoma, South Carolina, South Dakota, Tennessee, Utah, Virginia, Washington, Wyoming

Alabama, Arkansas, Iowa, Louisiana, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Texas, Vermont, West Virginia, Wisconsin

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Provide a broad liberal arts program of study to elementary special education candidates and require that they pass the same content test as general education teachers.

Michigan should ensure that special education teacher candidates who will teach elementary grades possess knowledge of the subject matter at hand. Not only should the state require core-subject coursework relevant to the elementary classroom, but it should also require that these candidates pass the same subject-matter test required of all elementary teachers. Michigan requires initial certification at either the elementary or secondary level. This does not ensure the elementary content test. Failure to ensure that teachers possess requisite content knowledge deprives special education students of the opportunity to reach their academic potential.

Ensure that secondary special education teachers possess adequate content knowledge.

Secondary special education teachers are frequently generalists who teach many core subject areas. While it may be unreasonable to expect secondary special education teachers to meet the same requirements for each subject they teach as other teachers who teach only one subject, Michigan's current policy of requiring limited subject-matter testing is unacceptable and will not help special education students to meet rigorous learning standards. To provide a middle ground, Michigan should consider a customized HOUSSE route for new secondary special education teachers and look to the flexibility offered by the Individuals with Disabilities Education Act (IDEA), which allows for a combination of testing and coursework to demonstrate requisite content knowledge in the classroom.

Offers K. 12 and Brade specific Figure 12 DOES NOT OFFER A K-12 CERTIFICATION Do states distinguish between elementary Certification(s) and secondary special education teachers? Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Г Massachusetts **MICHIGAN** Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota П Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas 1 Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming 16 10 25

Although the state does issue a K-12 certificate, candidates must meet discrete elementary and/or secondary requirements.

Figure 13 Which states require subject-matter testing for special education teachers?

Elementary Subject-Matter	Test
Required for an elementary special education license	Alabama, Arkansas, Iowa, Kansas, Louisiana, Massachusetts, Mississippi, New Jersey, New York, Oregon ¹ , Pennsylvania ² , Rhode Island, Texas, West Virginia ³ , Wisconsin
Required for a K-12 special education license	Colorado, Idaho
Secondary Subject-Matter T	est(s)
Tests in all core subjects required for secondary special education license	None
Test in at least one subject required for secondary special education license	Arkansas, Kansas, Louisiana, New Jersey, New York ⁴ , Oregon ¹ , Pennsylvania ² , Rhode Island, West Virginia ³
Required for a K-12 special education license	None

- 1. Although Oregon requires testing, the state allows an "alternative assessment" option for candidates who fail twice.
- 2. In Pennsylvania, a candidate who opts for dual certification in elementary or secondary special education and as a reading specialist does not have to take a content test.
- 3. West Virginia also allows elementary special education candidates to earn dual certification in early childhood, which would not require a content test. Secondary special education candidates earning dual certification as a reading specialist are similarly exempted from the content test.
- 4. New York requires a multi-subject content test specifically geared to secondary special education candidates. It is divided into three subtests.

Critical Attention: Student Teaching



Michigan does not ensure that teacher preparation programs will provide teacher candidates with a high-quality summative clinical experience.

The importance of clinical practice in teacher preparation has become a major area of focus. Student teaching is the final clinical experience of teacher preparation, and teacher candidates have only one chance to experience the best possible placement. Student teaching will shape candidates' own performance as teachers and help determine the type of school in which they will choose to teach. A mediocre student teaching experience, let alone a disastrous one, can never be undone.

Central to the quality of the student teaching experience is the classroom teacher who serves as the teacher candidate's mentor, or cooperating teacher. Only strong teachers with evidence of their effectiveness, as assessed by objective measures of student learning and the teachers' principals, should be able to serve as cooperating teachers. Yet placement is much more likely to be the luck of the draw. NCTQ's recent study *Student Teaching in the United States* found that three out of four teacher preparation programs fail to require that cooperating teachers must be effective instructors.

Michigan does not articulate any requirements for cooperating teachers, and the state only requires that candidates complete at least 12 weeks of student teaching, for a minimum of six semester credit hours.

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Idaho, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, MICHIGAN, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming

3 Florida

Florida, Indiana, Tennessee

NEXT STEPS FOR MICHIGAN:

■ Ensure that cooperating teachers have demonstrated evidence of effectiveness as measured by student learning.

In addition to the ability to mentor an adult, cooperating teachers in Michigan should also be carefully screened for their capacity to further student achievement. Research indicates that the only aspect of a student teaching arrangement that has been shown to have an impact on student achievement is the positive effect of selection of the cooperating teacher by the preparation program, rather than by the student teacher or school district staff.

■ Make the state's teacher evaluation system the basis for selecting cooperating teachers.

Michigan requires objective measures of student growth to be the preponderant criterion of its teacher evaluations. The state should therefore utilize its evaluation results, which provide evidence of effectiveness in the classroom, in the selection of effective cooperating teachers.

■ Require teacher candidates to spend at least 10 weeks student teaching.

Michigan should require that student teaching be a full-time commitment, as requiring coursework and student teaching simultaneously does a disservice to both. Alignment with a school calendar for at least 10 weeks ensures both adequate classroom experience and exposure to a variety of ancillary professional activities.

		1]
Figure 14	25		
Do states require	\ <u>*</u> ≥	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
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teaching experience?	COOPERATING TEACHER FFECTIVE BASED ON	FULL TIME STUDENT LEAST TO WERGS AT	
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Pennsylvania			
Rhode Island			
South Carolina			
South Dakota			
Tennessee			
Texas			
Utah			
Vermont			Based on new REPA II regulations.
Virginia			Candidates can student teach for
Washington		2	less than 12 weeks if determined
West Virginia Wisconsin			to be proficient.
Wyoming			
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	3	28	

Critical Attention: Teacher Preparation Program Accountability



Michigan could do more to hold its teacher preparation programs accountable for the effectiveness of the teachers they produce.

Teacher preparation programs operate by virtue of state approval. As such, it is up to states to connect that approval to accountability measures that ensure that all approved programs meet minimum performance standards. Such an accountability system informs the public—including prospective teachers seeking a program as well as districts hiring graduates—by shining a light on high performers as well as identifying those programs performing poorly.

Further, as more states begin to raise expectations for teachers by way of evaluations focused on effectiveness, there is an even greater need to hold teacher preparation programs accountable for the effectiveness of the teachers they produce. Although the quality of both the subject-matter preparation and professional sequence is crucial, there are also additional measures that can provide the state and the public with meaningful, readily understandable indicators of how well programs are doing when it comes to preparing teachers to be successful in the classroom.

Alaska, Arizona, Arkansas, California, Connecticut, Delaware, District of Columbia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Maine, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Oklahoma, Oregon, Pennsylvania, South Dakota, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming

Alabama, Colorado, Georgia, Kentucky, **MICHIGAN**, Nevada, North Carolina, Ohio, Rhode Island, South Carolina, Tennessee, Texas

Florida, Louisiana

Although it does not connect student achievement gains to teacher preparation programs, Michigan does collect some program-specific, objective data that reflect performance of traditional programs, including teacher evaluation results as part of the "teaching success rate," licensure test pass rates, program completion rates, and surveys of candidates and supervisors. Michigan reports these data on the state's website at the program level. Importantly, Michigan appears to apply transparent, measurable criteria for conferring program approval. A program that scores 52-55 points is deemed "at-risk;" one that scores below 52 points is "low performing." Low-performing programs have two years to improve before penalties are imposed.

For its alternate route, Michigan requires programs to report how many teachers were certified under each program and how long participating teachers served in the classroom and to compare the evaluations of participating teachers and teachers with traditional certification. A report is published on the state's website. However, the published data relate primarily to enrollment and do not seem to have been updated since 2009.

NEXT STEPS FOR MICHIGAN:

Collect data that connect student achievement gains to teacher preparation programs.

As one way to measure whether programs are producing effective classroom teachers, Michigan should consider the academic achievement gains of students taught by programs' graduates, averaged over the first three years of teaching. Data that are aggregated to the institution (e.g., combining elementary and secondary programs) rather than disaggregated to the specific preparation program are not useful for accountability purposes. Such aggregation can mask significant differences in performance among programs.

Collect other meaningful, program-level data that reflect program performance.

Although Michigan relies on some objective, meaningful data to measure the performance of teacher preparation programs, the state should expand its current requirements for traditional teacher preparation programs to apply to alternate route programs and include additional metrics, such as five-year retention rates of graduates in the teaching profession.

Establish minimum standards of performance for alternate route programs.

Michigan is commended for setting standards for performance for its traditional teacher preparation programs. The state should also apply such standards to its alternate route programs, which should be held accountable for meeting established standards and face articulated consequences for failing to do so, including loss of program approval.

Maintain full authority over teacher preparation program approval.

Michigan has blurred the line between the public process of state program approval and the private process of national accreditation by requiring accreditation for program approval. Michigan should not cede its authority and must ensure that it is the state that considers the evidence of program performance and makes the decision about whether programs should continue to be authorized to prepare teachers.

Figure 15

Do states use student
achievement data to hold



- 1. Strong Practice: Colorado, Florida, Georgia, Louisiana, North Carolina, Ohio, Tennessee, Texas
- 2. Delaware, District of Columbia, Hawaii, Maryland, Massachusetts, New York, Rhode Island
- 3. Alabama, Alaska, Arizona, Arkansas, California, Connecticut, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Dakota, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming

Do states hold teac	her ms SHELLINE BOOK SHELINE BOOK SHELLINE BOOK SHELINE BOOK SHELLINE BOOK SHELLINE BOOK SHELLINE BOOK SHELLINE BO	/	,	
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lowa				
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Kentucky			2	
Louisiana				
Maine ¹				
Maryland	4			
Massachusetts				
MICHIGAN		1		
Minnesota				
Mississippi	1			
Missouri				
Montana	1			
Nebraska				
Nevada ¹				
New Hampshire ⁶				
New Jersey ¹				
New Mexico New York				
North Carolina			1	
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Oklahoma				
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Wisconsin				
Wyoming				

TEACHER PRODUCTION IN MICHIGAN

States have long established requirements for teacher preparation and licensure and have lately turned their attention toward accountability systems for preparation programs. But one topic that has received little attention from states is the issue of teacher production. From the number of teachers who graduate from preparation programs each year, only a subset are certified and only some of those certified are actually hired in the state; the relationship between these numbers has important implications for related policymaking.

States are rightly focused on areas of chronic teacher shortages, such as secondary mathematics and science, but little consideration is given to areas of consistent oversupply, particularly the overproduction in most states of elementary teachers. While it is certainly desirable to produce a big enough pool to give districts choice in hiring, the substantial oversupply in some teaching areas is not good for the profession. Limited resources are squandered on individuals who will not go on to teach, most critically the scarce supply of student teaching placements with effective cooperating teachers. Admissions criteria, licensure requirements and program accountability standards may be unnecessarily depressed if the dots are not connected from graduation to certification to actual employment in a district.

Maryland's "Teacher Staffing Report" provides a model for other states. Published biennially, the report has been tracking staffing trends in the state for almost three decades. While its primary purpose is to determine teacher shortage areas, it also identifies areas of surplus. By collecting hiring data from districts, Maryland has a rich set of data that can inform policy decisions.

The latest edition of the "Teacher Staffing Report" can be found at: http://www.marylandpublicschools.org/MSDE/divisions/certification/progapproval/mtsr.

Michigan teacher production data: NCTQ was unable to find any published data on teacher production in Michigan that connects program completion, certification and hiring statistics.

- 1. Traditional preparation only.
- 2. Reported institutional data do not distinguish between candidates in the traditional and alternate route programs.
- 3. Required, but not yet available.
- 4. Alternate routes only.
- 5. Based on new REPA II regulations.
- 6. New Hampshire is in the process of adopting new reporting requirements.

Figure 17			National acceptation:	
Figure 17		Overlap of accreditation	. /	/e/10
What is the relationship	APPROVALES OVAL	,		g de la
between state program	NO	15. \ 19. \	olitat,	gram,
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	8	31	12	
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There are some areas where a small adjustment would result in significantly stronger policy. Here are some issues that represent low-hanging fruit, policies that can be addressed in relatively short order.

- To ensure adequate subject-area knowledge, Michigan should require secondary teachers who obtain certification in general science/combination science or general social studies to pass individual content tests (or a composite test that reports individual subscores) for each discipline they will be licensed to teach, as noted in the secondary critical attention section.
- As a first step toward using an assessment for admission to a teacher preparation program that compares candidates to the general college-going population, Michigan should allow teacher candidates to submit ACT/SAT/GRE scores that demonstrate academic proficiency.



Alternate Routes to Certification

The policies discussed in the "Critical Attention" section of this report primarily focus on traditional teacher preparation programs because such programs presently train the vast majority of new teachers. Of course, there are some teachers that attain licensure outside of these traditional programs. Alternate routes to certification were developed based on the idea that there should be pathways into the teaching profession for nontraditional candidates who are able to demonstrate strong subject-area knowledge and an above-average academic background.

Unfortunately, most states have considerable work to do to make their alternate routes viable pathways into the teaching profession. Considerable variation remains in both the quality of states' routes and how much of an alternative to traditional preparation such routes actually provide.

A high-quality, genuinely alternative licensure pathway should be rigorous yet flexible in admissions, focused and deliberate in preparation, and open to broad usage across subjects and grades.

State policy for alternate routes to teacher licensure should ensure that:

- Strong academic performance and subject-matter-knowledge testing are prerequisites for program admission.
- Subject-area majors are not required or candidates have the option to test out of any subject-area coursework requirements.
- Coursework is streamlined and not overly burdensome, and it meets the immediate needs of new teachers.
- Program length is reasonable (no more than two years). Practice teaching and/or intensive mentoring is required.
- Limits are not placed on the subjects and/or grades an alternate route teacher can teach, and alternate route providers are not restricted to colleges and universities; districts and nonprofits should be permitted to offer programs as well.

Michigan sets minimum admissions requirements for all alternate route programs in the state. Alternate route candidates must meet rigorous admissions standards and pass both a basic skills and subject-matter test. Michigan requires strong supports in the form of field experience and intensive observation and coaching and allows for broad usage and a diversity of providers. However, Michigan's alternate routes would be improved if the state ensured that programs provided streamlined and relevant coursework in a reasonable time frame (see Figure 19).

NEXT STEPS FOR MICHIGAN:

■ Ensure that preparation coursework targets the immediate needs of new teachers.

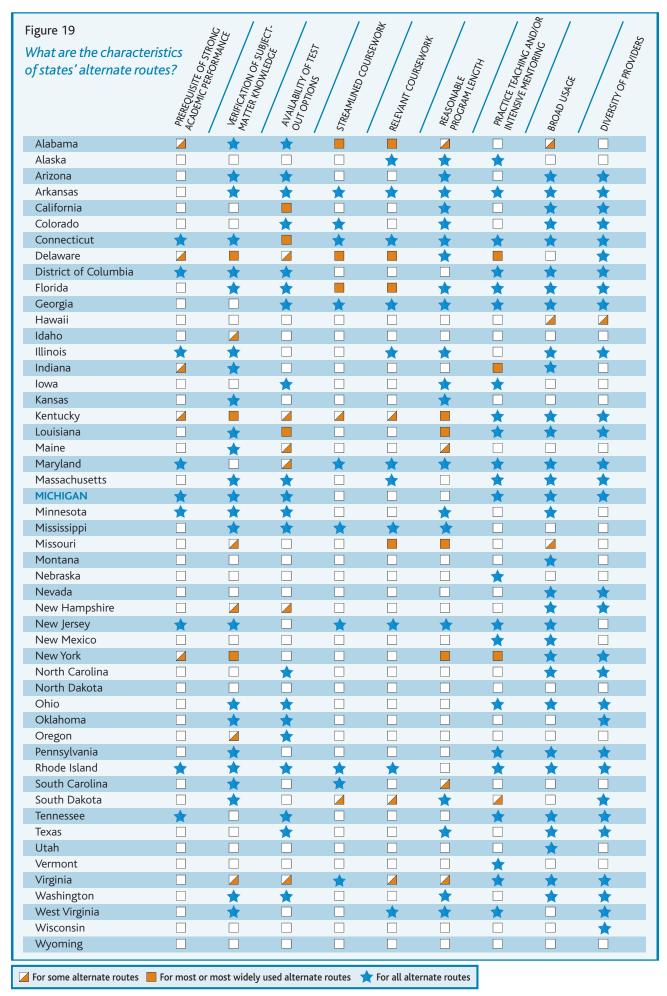
Michigan does not ensure that its alternate route candidates will receive streamlined preparation that meets the immediate needs of new teachers. All coursework requirements should be manageable for career changers and other nontraditional candidates and contribute to the immediate needs of new teachers. Appropriate coursework should include grade-level or subject-level seminars, methodology in the content area, classroom management, assessment and scientifically based early reading instruc-

tion. Michigan sets minimum coursework requirements but without established maximums, which does not ensure that new teachers can complete the program in an appropriate amount of time (no more than two years) without being overburdened by coursework.

■ Eliminate basic skills test requirement.

Michigan's requirement that alternate route candidates pass a basic skills test is impractical and ineffective. Basic skills tests measure minimum competency—essentially those skills that a person should have acquired in middle school—and are inappropriate for candidates who have already earned a bachelor's degree.

Figure 18		<u>#</u> /	\$ / 370
Do states provide real alternate pathways to certification?	GENUINE OR NEARLY	Altemate route that	Offered route & disingenuous
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Alaska			
Arizona			
Arkansas			
California			
Colorado			
Connecticut			
Delaware			
District of Columbia			
Florida			
Georgia			
Hawaii			
Idaho			
Illinois			
Indiana			
lowa			
Kansas			
Kentucky Louisiana			
Maine			
Maryland			
Massachusetts			
MICHIGAN			
Minnesota			
Mississippi			
Missouri			
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Nebraska			
Nevada			
New Hampshire			
New Jersey			
New Mexico			
New York			
North Carolina			
North Dakota			
Ohio			
Oklahoma			
Oregon			
Pennsylvania			
Rhode Island			
South Carolina			
South Dakota			
Tennessee			
Texas			
Utah			
Vermont			
Virginia Washington			
Wachington			
West Virginia			
West Virginia Wisconsin			
West Virginia			



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Alternate Route Policy Checklist for States

	nate Route Foliey Check	
1.	Set high standards and provide flexibility for meeting them.	 Screen candidates based on academic ability. Set a higher standard for entry than is set for traditional teacher preparation. Require candidates to pass the state's subject-matter licensing test. Don't require a major in the intended subject area; instead, allow candidates to demonstrate subject-matter knowledge on a rigorous test.
2.	Provide streamlined preparation.	 Limit coursework (ideally to no more than 12 credits a year). Require that the alternate route is an accelerated course of study. Ensure that all coursework requirements target the immediate needs of the new teacher Offer candidates an opportunity to practice teach in a summer training program. Provide intensive mentoring.
3.	Remove regulatory obstacles.	 ✓ Allow for a diversity of alternate route providers. ✓ Don't limit the use of alternate routes to shortage areas or to certain grades or subjects.

Figure 20
Authority for Teacher Preparation in Michigan

Governor of Michigan

The Superintendent of Public Instruction is appointed by the State Board of Education.

Members of the Michigan State
Board of Education are elected



The Superintendent of Public Instruction is the state authority charged with adopting rules regarding teacher certification.

The State Board of Education holds the authority for setting teacher preparation program standards.



Continuing program
approval by the
Superintendent of Public
Instruction requires
NCATE accreditation.

Individual teacher preparation institutions are responsible for their own admission criteria.

Critical Attention Summary for Michigan



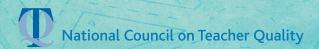
Red

		AUTHORITY
ADMISSION INTO PREPARATION PROGRAMS	Require that preparation programs screen candidates prior to admission by using a common test normed to the general college-bound population and limit acceptance to those candidates demonstrating academic ability in the top 50th percentile.	Individual Institutions
ELEMENTARY TEACHER PREPARATION	 Require all elementary teacher candidates to pass a rigorous content test that assesses knowledge of all subjects. Require preparation programs to provide mathematics content specifically geared to the needs of elementary teachers, and require candidates to pass a rigorous math assessment. Require a rigorous assessment in the science of reading instruction. Require a content specialization in an academic subject area. 	Superintendent of Public Instruction
MIDDLE SCHOOL TEACHER PREPARATION	 Eliminate the generalist K-8 license. Require middle school candidates to pass a content test in every core area they intend to teach. Encourage two subject-matter minors for candidates who are licensed to teach multiple subjects; those who teach single subjects should earn a content major. 	Superintendent of Public Instruction
SPECIAL EDUCATION TEACHER PREPARATION	 Eliminate the K-12 special education certificate, and require licenses that differentiate between preparation of elementary and secondary teacher candidates. Require that elementary special education candidates pass the same content test as general elementary teachers. Ensure that secondary special education teachers possess adequate content knowledge. 	Superintendent of Public Instruction
STUDENT TEACHING	 Ensure that cooperating teachers have demonstrated evidence of effectiveness as measured by student learning. Require at least 10 weeks of full-time student teaching. 	Superintendent of Public Instruction



Yellow

		AUTHORITY
SECONDARY TEACHER PREPARATION	 Require secondary science and social studies teachers to pass a content test for each discipline they are licensed to teach. 	Superintendent of Public Instruction
TEACHER PREPARATION PROGRAM ACCOUNTABILITY	 Collect performance data that connect student achievement gains to teacher preparation programs. Set minimum standards for program performance with consequences for failure to meet those standards. 	Superintendent of Public Instruction



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NCTQ is available to work with individual states to improve teacher policies.

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