



STATE OF MICHIGAN
DEPARTMENT OF EDUCATION
LANSING



JENNIFER M. GRANHOLM
GOVERNOR

MICHAEL P. FLANAGAN
SUPERINTENDENT OF
PUBLIC INSTRUCTION

October 25, 2010

MEMORANDUM

TO: State Board of Education

FROM: Michael Flanagan, Chairman 

SUBJECT: Approval of Criteria for Grants to Create and Implement Middle College High Schools Focused on Health Sciences or Science, Technology, Engineering, and Mathematics (STEM)

The State School Aid Act, Section 64, appropriates \$2,000,000 for planning grants to intermediate school districts (ISDs), Project ReImagine Demonstration Districts, or a District of the First Class to establish an Early/Middle College. Grantees must form a consortium with a state public community college/university, an accredited hospital, or other appropriate entity representing Science, Technology, Engineering, and Mathematics (STEM) employment opportunities to create a Middle College High School focused on Health Sciences or STEM.

The proposed Middle College High School must be organized in such a manner that it will provide courses and other requirements that will allow a pupil to graduate with a high school diploma and a certificate or degree from a community college or state public university.

Outreach programs will be developed to provide information about career opportunities in the health sciences or STEM to middle school and high school students. The Middle College High School will have a curriculum that includes entry-level college courses and offers clinical rotations, or STEM specific opportunities that provide pupils the exposure to careers in the health sciences or STEM field.

It is recommended that the State Board of Education approve the Criteria for Grants to Create and Implement Middle College High Schools Focused on Health Sciences or Science, Technology, Engineering, and Mathematics (STEM), as attached to the Superintendent's memorandum dated October 25, 2010.

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608 WEST ALLEGAN STREET • P.O. BOX 30008 • LANSING, MICHIGAN 48909
www.michigan.gov/mde • (517) 373-3324

MICHIGAN
STATE BOARD OF EDUCATION

Criteria for Grants to Create and Implement Middle College High Schools Focused on Health Sciences or Science, Technology, Engineering, and Mathematics (STEM)

The State Board of Education has adopted as its goal "Significant and meaningful improvement in the academic achievement of all students/children with major emphasis on the persistently lowest achieving schools and students."

To the extent possible, all grant criteria and grant awards will serve to further attain the above goal, and the Board's Vision and Principles of Universal Education.

PRIORITIES, POLICIES, AND PROGRAMS THAT THESE CRITERIA SUPPORT

This grant program supports the following State Board of Education priorities, policies, and programs: The Reimagined Pre-K-12 Education System in Michigan, Excellent Educator Quality Continuum, and "Recommendations to Better Support Michigan's Education System-Reform, Restructuring and Revenues."

BACKGROUND/PURPOSE OF GRANT

Competitive Formula New Continuation *(check all that apply)*

The State Aid Act has directed \$2,000,000 to be made available to create Middle College High Schools with a focus on health sciences or Science, Technology, Engineering, and Mathematics (STEM) occupations. Several planning grants will be made available to consortia consisting of: 1) an Intermediate School District (ISD), Project ReImagine Demonstration District, or a District of the First Class, 2) a community college or public university, and 3) an accredited hospital or other appropriate entity representing Science, Technology, Engineering, and Mathematics (STEM).

The Middle College High School will be authorized to grant a high school diploma and college credit up to an associates degree. Instruction will be characterized by collaborative, project-oriented, interdisciplinary curricula. The Middle College High School will have the expectation that faculty will be counselor/advocates, as well as teachers. Student outcomes will be measured by multiple assessments, including hands-on performance based assessments. Staff and faculty will participate in ongoing professional learning focused on health sciences and/or STEM.

The primary goal of the Middle College High School is to provide students who have been traditionally underserved with new experiences and opportunities related to health science or STEM while earning a high school diploma and an associate's degree or ability to transfer courses as college credits.

CRITERIA

Date criteria were last approved: September 12, 2006

Defined in Law

Defined in Department's Approved
Grant Application to the Funder

Proposed
by Staff

The grants awarded will be planning grants. The successful applicants will describe how they will address the following during the planning process:

- A memorandum of understanding with local constituent districts that ensure students will be permitted to enroll in the middle college and establishes a clear understanding for the transfer of the student's per pupil foundation allowance
- A description of outreach programs to provide middle and high school students about career opportunities in health sciences and/or the STEM fields
- A description of how the middle college will award high school credit and college credit for appropriate course completion
- A description of the academic structure and staffing of the middle college to include position descriptions for administrative and teaching faculty
- A plan to ensure that only highly qualified teachers will be employed by the middle college
- A description and schedule of professional development activities that will be used to transition traditional high school personnel to the middle college concept
- A description of the location of the middle college that will have, at a minimum, 60% of the student's learning opportunities and classes at a community college, state university, and/or an accredited hospital or other appropriate entity representing STEM employment occupations
- A description of how the middle college integrates student services and academic calendars into the organization of the community college/state university and the accredited hospital, or other appropriate entity representing STEM employment opportunities
- A listing and description of courses offered, along with the proposed teaching locations
- Examples of course syllabi that describe how the instruction will be characterized by collaborative, project based, interdisciplinary criteria that will include clinical rotations or other appropriate entity representing STEM designed to acquaint students with health sciences or STEM
- Clinical rotations that provide opportunities for pupils to observe careers in the health sciences
- Experiences that provide opportunities for pupils to observe careers in the STEM occupations
- Instruction in mathematics, science, and language arts that is integrated, where appropriate, into the courses in the approved field

- Curriculum that includes entry-level college courses
- A description of wrap-around guidance and counseling services that is specifically designed to support middle college students
- A description of how each student will receive an individualized educational development plan and how that plan will be reviewed each semester
- A description of student assessment characterized by outcomes based criteria measured by multiple assessments including performance-based measures
- A communication plan designed to inform parents, faculty, and students of the middle college activities
- A specific communication plan for parents designed to keep them informed of their child's academic progress

ELIGIBLE APPLICANTS/TARGET POPULATION TO BE SERVED BY GRANT

Grants will be made available to consortia consisting of an ISD, Project ReImagine Demonstration District, or District of the First Class, a community college or public university, and an accredited hospital or other appropriate entity representing STEM employment opportunities.

TOTAL FUNDS AVAILABLE

\$2,000,000 for grants to create Middle College High Schools focused on the field of health sciences or STEM.

LAW

2010-2011 State School Aid Act, Section 64.

OFFICE ADMINISTERING GRANT/PROGRAM CONTACT

Michigan Department of Education
Office of Career and Technical Education
Christine Reiff, Consultant
608 West Allegan Street
Lansing, Michigan 48933
517.241.0260
reiffc@michigan.gov