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Maine School of Science and Mathematics

Maine's nationally ranked STEM Academy

Presentation to MSSM - All School Meeting

May 19, 2021

Topics

- Business Planning Committee Review & Update
- Campus Options & Cost Analysis
- Conversations in Augusta (December to May)
 - Messaging to decision makers
 - Mills Administration meetings
 - Legislative meetings
- Summary Status Report

Business Planning Process

- Business Plan concept introduced at a BOT workshop in March 2020
- Business Planning Committee Charter approved by BOT in May 2020
- Objective to assess MSSM's viability, value to Maine and a path forward

4 Phases - Phase 1: Discovery & Concept - research-based program review

- Phase 2: Authorization - legislative changes and state funding

- Phase 3: Business Plan - based on new legislative mandate

- Phase 4: Implementation

Phase 1 has now been completed, we are in Phase 2

Phase 1

Peer School Analysis

Web Research and in-depth Interviews *

- Arkansas School for Math, Sciences, and the Arts
- Illinois Mathematics and Science Academy
- Louisiana School for Math, Science, and the Arts
- Maine School of Science and Mathematics
- Mississippi School for Mathematics and Science
- North Carolina School of Science and Mathematics
- South Carolina Governor's School for Science and Mathematics

Web Research Only

- Alabama School of Mathematics and Science
- Gatton Academy of Mathematics and Science in Kentucky
- •Georgia Academy of the Arts, Mathematics, Engineering and Science (GA)
- •Indiana Academy for Science, Math and Humanities
- Kansas Academy of Mathematics and Science
- •Missouri Academy of Science, Mathematics and Computing-CLOSED
- Oklahoma School of Science and Mathematics
- Texas Academy of Mathematics and Science
- * MSSM plus the six most successful schools according to Todd Mann, Executive Director, National Consortium of Specialized STEM Schools

Maine leadership Outreach

Higher Ed: Bates, Bowdoin, Colby, UMaine System, UMaine, UMPI,

USM, Maine Maritime, Thomas College, Unity College, others

Research: Bigelow Laboratory, Jackson Laboratory, Roux Institute

Industry: IDEXX, WEX, Maine Health, MMG Insurance

Foundations: MCF, BSB Foundation, MSSM Foundation, Alfond Foundation

State: DOE (various), Office of Innovation

Other: MMSA, Educate Maine, MEA, Aroostook Partnership

Brainstormed with leaders of important constituencies

Vision Recommendations

- Increase School size to 240 students
- Provide modern, mission appropriate facilities
- Increase investment in Student Welfare
- Increase funding to support academic & residential excellence
- Fund room & board costs
- Strengthen higher education & research affiliations
- Emphasize support for rural community students
- Support a robust state-wide Outreach Program
- * Approved by the Board of Trustees on March 6, 2021, and sent to all Legislators

Campus Options

Limestone
Colby College
Unity College

Ranking of Campus Options

Primary Criteria	Limestone	Colby	Unity
Student safety & welfare	1	1	3
Enhancement of Learning	3	1	2
Facilities	1*	1*	2
Cost	3	2	1

note: 1 is best

assumes new construction of mission appropriate facilities

Total Annual Costs

student count: teacher-student ratio:	Limestone today 130 9.3	L <u>imestone</u> new campus 240 12	Waterville new campus 240 12	Unity existing campus 240 12
Instruction General Administration Maintenance & Operations Student Support (SEL) Room & Board Recruitment & Admissions All Other Facilities (rent/lease/debt service) Total Residential Cost	\$ 1,585,294	\$ 2,300,000	\$ 2,300,000	\$2,300,000
	\$ 243,031	\$ 350,000	\$ 350,000	\$ 350,000
	\$ 456,230	\$ 750,000	\$ 750,000	\$ 400,000
	\$ 194,065	\$ 600,000	\$ 600,000	\$ 600,000
	\$ 1,326,786	\$ 2,200,000	\$ 2,200,000	\$2,080,000
	\$ 233,973	\$ 400,000	\$ 400,000	\$ 400,000
	\$ 265,491	\$ 450,000	\$ 450,000	\$ 450,000
	\$ 388,920	\$ 6,240,000	\$ 3,120,000	\$ 1,200,000
	\$ 4,693,790	\$13,290,000	\$10,170,000	\$ 7,780,000
Outreach Program Total Program Costs Less: Parent funded room & board All other (net) Total Cost to State of Maine	\$ 170,402	\$ 420,000	\$ 420,000	\$ 420,000
	\$ 4,864,192	\$13,710,000	\$10,590,000	\$8,200,000
	\$ 1,235,000	\$ 0	\$ 0	\$ 0
	\$ 238,845	\$ 210,000	\$ 210,000	\$ 210,000
	\$ 3,290,347	\$13,500,000	\$10,380,000	\$7,990,000

Per Student Annual Costs

student count: teacher-student ratio:	Limestone today 130 9.3	Limestone new campus 240 12	Waterville new campus 240 12	U <u>nity</u> existing campus ²⁴⁰ ¹²
Instruction General Administration Maintenance & Operations Student Support (SEL) Room & Board Recruitment & Admissions All Other Facilities (rent/lease/debt service) Total Residential Cost	\$ 12,195	\$ 9,583	\$ 9,583	\$ 9,583
	\$ 1,869	\$ 1,458	\$ 1,458	\$ 1,458
	\$ 3,509	\$ 3,125	\$ 3,125	\$ 1,667
	\$ 1,493	\$ 2,500	\$ 2,500	\$ 2,500
	\$ 10,206	\$ 9,167	\$ 9,167	\$ 8,667
	\$ 1,800	\$ 1,667	\$ 1,667	\$ 1,667
	\$ 2,042	\$ 1,875	\$ 1,875	\$ 1,875
	\$ 2,992	\$ 26,000	\$ 13,000	\$ 5,000
	\$ 36,106	\$ 55,375	\$ 42,375	\$ 32,417
Outreach Program Total Program Costs Less: Parent funded room & board All other (net) Total Cost to State of Maine	\$ 1,311	\$ 1,750	\$ 1.750	\$ 1,750
	\$ 37,417	\$ 57,125	\$ 44,125	\$ 34,167
	\$ 9,500	\$ 0	\$ 0	\$ 0
	\$ 2,607	\$ 875	\$ 875	\$ 875
	\$ 25,310	\$ 56,250	\$ 43,250	\$ 33,292

Phase 2

Messaging to Decision Makers

- Maine has an important group of world class institutions who rely heavily on a STEM educated workforce
- Alfond Foundation, Roux Institute, Davis Al Institute represent significant investments in Maine's <u>Higher Education</u> institutions
- Primary Education needs to participate as a fundamental source of young STEM educated talent to feed this pipeline

Leadership is needed for a long-term plan

Plan first, then Act

Evaluate the new MSSM Vision

- School size, annual budget, modifications to the legislation
- Scope and size of the Outreach Program

Provide direction on Campus Location Options

- Evaluate the options for the Campus Location
- Provide guidance for further Partnership discussions

Define next steps to moving forward

- Agree to a process for completing the MSSM Business Plan
- Convene relevant stakeholders in state-wide planning process

Administration Conversations

- Commissioners Meeting December 14
 Com Makin, Com Johnson, Com Pingree, Governor's Leg. Asst. Marrow
- DOE several meetings with Commissioner Pender Makin some included Deputy Com Chuhta, improved relationship between DOE & MSSM
- Governor Mills

Request for summer remedial STEM education program funded with stimulus \$\$ Proposal submitted to DOE

Legislative Conversations

- Education Committee presentation April 16
 Invited back for a second session, but not yet scheduled
- Appropriations Committee submitted written testimony on LD21
 Asked for chance to present, but not yet scheduled
- Senate President Troy Jackson
 Three meetings held but unwilling to schedule hearings
- Several other one-on-one Legislative Meetings

Senator Daughtry, Senator Stewart, Senator Breen, Senator Carney Representative Millett, Representative Brennan, Representative White

Leadership is needed for a long-term plan

Summary Status Report

- MSSM profile <u>MUCH</u> bigger now than several months ago
- Recognition that MSSM has been neglected for YEARS!
- Some understanding of the growing risks at MSSM
- Frustrated in ability to gain an audience for the VISION
- Objective to organize a TASK FORCE on MSSM's future

Questions?