Graduate Education Summit

March 8, 2019
STRATEGIC VISION AND VALUES

Fostering Learner Success

Growing and Expanding Partnerships

Creating and Innovating for Maine and Beyond
Building a Vision: **Timely**

November 15 – February 28
- Articulate Strategic Values

March 1 – April 30
- Develop Goals
- Develop Strategies
- Create a Dashboard of Key Indicators
- UMS R&D Plan

May
- Present to University of Maine System Board of Trustees
DRAFT Goals to Drive the Expansion of UMS Research and Development

**Goal 1**
Make the State of Maine the most desirable state in the nation in which to live by 2030. Address this Grand Challenge for Maine by creating solutions through R&D that can be applied locally, nationally, and globally.

**Goal 2**
Enhance Maine’s economic viability by increasing capacity across all sectors statewide to invest in R&D.

**Goal 3**
Generate the knowledge-growing workforce required for Maine’s future, expanded R&D enterprise and innovation economy.
Goals for Today

• Develop **GOALS** for graduate education at UMaine

• Develop **STRATEGIES**?
  • Expanding enrollment capacity in existing programs
  • Developing new degree and non-degree programs
  • Identifying impediments to enrollment growth and quality assurance
  • Exploring ideas for addressing impediments
Plan for Today

• **Why** should UMaine expand graduate education?

• **Where** should UMaine expand graduate education?

• **How** should UMaine expand graduate education?
Why should UMaine expand graduate education?

- Board of Trustees’ Strategic Priorities
UMS BOT Strategic Priorities

Advancing Workforce Readiness and Economic Development

Increasing Maine Educational Attainment

Aligning Academic Programs and Innovation to Drive Student Success and Employer Responsiveness

Maintaining Competitiveness and Sustainability to Meet Critical State Needs
Why should UMaine expand graduate education?

Good for UMaine

- Revenue
  - Undergraduate enrollment will decrease
Projected High School Graduate Decline 2016-2032 (-16%)

Source: Western Interstate Commission for Higher Education (WICHE)
High School Graduate Trends

20-year Projections from School Year 2011-2012 through 2031-2032

Source: Western Interstate Commission for Higher Education (WICHE)
Why should UMaine expand graduate education?

- Revenue
- Undergraduate enrollment will decrease
- Expand Research & Development

Goal 1: Make the State of Maine the most desirable state in the nation in which to live by 2030. Address this Grand Challenge for Maine by creating solutions through R&D that can be applied locally, nationally, and globally.

Goal 2: Enhance Maine’s economic viability by increasing capacity across all sectors statewide to invest in R&D.

Goal 3: Generate the knowledge-growing workforce required for Maine’s future, expanded R&D enterprise and innovation economy.

- Elevate Status
  - Carnegie classification
  - US News & World Report
Why should UMaine expand graduate education?

Good for Maine

Projected job openings requiring graduate degrees

Examples - projected annual job openings in Maine requiring a graduate degree over next 10 years

- Education Administration: 52
- Statisticians: 11
- Mental Health/Substance Abuse: 170
- Nurse Practitioners: 95
- Speech Language Pathologist: 41
Why should UMaine expand graduate education?

Good for Maine

The impact of Research and Development on Economic Growth and Productivity in U.S. States “Research and development (R&D) has a large effect on both state output and total factor productivity in the long run.” (Blanco, Gu, & Prieger (2015) Southern Economic Journal.)
Why should UMaine expand graduate education?

Good for Students

- Income increase
- Opportunity expansion
Why should UMaine expand graduate education?

- Good for UMaine
  - Diversify our revenue sources
  - Fulfill our research and development mission
  - Elevate our national status

- Good for Maine
  - Educated workforce
  - Grow economy though R&D

- Good for Maine students
  - Increase their opportunities
  - Increase their earning potential
Where should UMaine expand graduate education?
Where should UMaine expand graduate education?

Where we have established strengths?

Signature Areas

- Forestry & the Environment
- Marine Sciences
- STEM Education
- Climate Change
- Advanced Materials for Infrastructure & Energy
- Engineering
- Honors
Where should UMaine expand graduate education?

• Where we have established strengths?
• Examine recent enrollment patterns?
Enrollments in Professional and Research Graduate Programs

Fall Headcount by Program Type

- Doctoral Programs
- Research Masters
- Professional Masters

Year 2009: 480
Year 2010: 696
Year 2011: 412
Year 2012: 509
Year 2013: 509
Year 2014: 506
Year 2015: 519
Year 2016: 575
Year 2017: 493
Year 2018: 451
Where should UMaine expand graduate education?

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
Where should UMaine expand graduate education?

• Where we have established strengths?
• Examine recent enrollment patterns?
• Where the jobs are and where they are expected to be?
  • Data Science
    • Data management
    • Data analytics
    • Informatics
  • Health Care
    • Providers
    • Managers
Where should UMaine expand graduate education?

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
- Where there is student demand and where we expect it to be?
**Where should UMaine expand graduate education?**

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
- Where there is student demand and where we expect it to be?
  - Examples:
    - Masters of Science in Nursing
    - Masters of Science in Data Science
    - Master of Science in Health Administration
    - Master of Science in Health Informatics
    - MBA with specialized tracks.
Where should UMaine expand graduate education?

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
- Where there is student demand and where we expect it to be?
- Where there are non-academic jobs for graduates of research programs?
Break Out Discussion #1

• What areas of graduate education should UMaine expand?
  • Why those areas?
• How do we prioritize areas for growth?
• What are the impediments to expansion of graduate education at UMaine?
How should UMaine expand graduate education?

Professional programs
- UMaineGOLD (Graduate OnLine Degree)
  - Matching students needs in delivery mode
  - Targets growth in high demand areas
  - Best practice standards for online education
  - Revenue sharing ($200 per student, per 3 credit hour course)
How should UMaine expand graduate education?

Professional programs

• UMaineGOLD (Graduate OnLine Degree)

• UMaineTOPS (Transformational Opportunities for Professional Success)

• Expand existing or develop new programs in high demand areas

• Best practices with respect to enrollment, student support, and curriculum

• Revenue sharing ($200 per student, per 3 credit hour course)
How should UMaine expand graduate education?

Research programs

• Redistribute graduate assistantship funding from masters to doctoral programs
E&G Graduate Student Support at UMaine

Current Distribution Model

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<th># of Students</th>
<th>E&amp;G cost</th>
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Proposed Distribution Model

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Break Out Discussion #2

• What is your response to TOPS proposal?
  • What are challenges of implementing this model?
  • How might the model be modified to be more effective?

• What is your response to the redistribution of support of graduate students?
  • What are the challenges of implementing this model?

• What are other approaches to expanding graduate education?
Vision for Graduate Education at UMaine

Wrap-Up