Northern Michigan University’s
New High Tech Classroom
“A Catalyst for Change”
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Northern Michigan University
NMU, located within the City of Marquette in Michigan's Upper Peninsula was established in 1899 as a Normal School

Academic:
8,592 (2014 FYES)
122 Undergraduate degree programs
25 Graduate programs
1 PhD (Doctor of Nursing Practice)
John X. Jamrich Hall – Provided NMU with the Opportunity to:
- Provide a State of the Art Classroom Facility
- Consider a Fundamental Change in Instructional Delivery
- Evaluate and Improve Space Efficiencies (Campus Wide)
- Deliver the latest teaching technologies to Campus
- Improve our Campus Infrastructure
- Reduce Operating Costs
2014 APPA Thought Leaders Series:

1. Understand How Facilities Affect Student Success
2. Use Total Cost Of Ownership as a Guide
3. Make Better Use of Space
4. Expand Data and Analysis to Cut Costs
5. Use Campus As a Classroom

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2014 APPA Thought Leaders Series: *Make Better Use of Space*

**The Team**

- Provost
- Vice President for Finance
- Associate Provost
- Dean
- Department Head
- Faculty
- Registers’ Office
- Facilities
- Instructional Media Services
- A&E – to includes space planners
2014 APPA Thought Leaders Series:

“Understand How Facilities Affect Student Success”

Northern Michigan University
2014 APPA Thought Leaders Series: “Understand How Facilities Affect Student Success”

- 21% of Sections
- 44% of Sections
- 25% of Sections
- 10% of Sections

2014 APPA Thought Leaders Series: Make Better Use of Space

- Space is Expensive
- Space is Mismatched
- Space is Underutilized
- Space is in Demand
### 2014 APPA Thought Leaders Series: “Make Better Use of Space”

### Average Weekly Scheduled Hours (8:00 am – 5:00 pm)

<table>
<thead>
<tr>
<th>Fall 2010 Building</th>
<th>Classrooms GU GU/DP DP Total</th>
<th>Hours per Classroom GU GU/DP DP All</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art &amp; Design Building</td>
<td>1 GU GU/DP DP 4</td>
<td>22.0 GU 13.3 GU/DP 15.5 DP</td>
</tr>
<tr>
<td>C. B. Hedgcoock Building</td>
<td>1 GU GU/DP DP 1</td>
<td>9.4 GU 9.4 GU/DP DP</td>
</tr>
<tr>
<td>Gries Hall</td>
<td>3 GU GU/DP DP 4</td>
<td>25.7 GU 11.0 GU/DP 22.0 DP</td>
</tr>
<tr>
<td>Jacobetti Center</td>
<td>14 GU GU/DP DP 16</td>
<td>15.6 GU 6.0 GU/DP 14.4 DP</td>
</tr>
<tr>
<td>John X. Jamrich Hall</td>
<td>26 GU GU/DP DP 32</td>
<td>25.3 GU 29.3 GU/DP 26.1 DP</td>
</tr>
<tr>
<td>Learning Resources Center</td>
<td>2 GU GU/DP DP 6</td>
<td>15.6 GU 24.0 GU/DP 6.7 DP</td>
</tr>
<tr>
<td>McClintock Building</td>
<td>6 GU GU/DP DP 7</td>
<td>22.2 GU 28.0 GU/DP 23.1 DP</td>
</tr>
<tr>
<td>New Science Facility</td>
<td>4 GU GU/DP DP 4</td>
<td>23.9 GU 23.9 GU/DP DP</td>
</tr>
<tr>
<td>Phys Ed Instructional Facility</td>
<td>3 GU GU/DP DP 4</td>
<td>15.7 GU 19.0 GU/DP 16.5 DP</td>
</tr>
<tr>
<td>Superior Dome</td>
<td>1 GU GU/DP DP 1</td>
<td>20.0 GU 20.0 GU/DP DP</td>
</tr>
<tr>
<td>Thomas Fine Arts Building</td>
<td>6 GU GU/DP DP 9</td>
<td>26.3 GU 24.6 GU/DP 4.0 DP</td>
</tr>
<tr>
<td>West Science Building</td>
<td>14 GU GU/DP DP 17</td>
<td>28.4 GU 17.7 GU/DP 26.5 DP</td>
</tr>
<tr>
<td>Whitman Hall</td>
<td>2 GU GU/DP DP 4</td>
<td>30.1 GU 24.7 GU/DP 27.4 DP</td>
</tr>
<tr>
<td>Grand Total</td>
<td>63 GU GU/DP DP 12 109</td>
<td>25.6 GU 19.9 GU/DP 10.4 DP 22.1 DP</td>
</tr>
</tbody>
</table>

National Standards are 28.5 to 31.5
2014 APPA Thought Leaders Series: “Make Better Use of Space”

**SCHEDULING GUIDELINES:**

- Courses should be offered with MW, TR, MTWR, MTRF, MWRF scheduling patterns.
- Single day courses should be offered on Fridays or during evenings.
- Start courses on the hour (8 am, 9 am, etc.). 6:30 pm is acceptable.
- Fifty minute courses should be offered from 8 am – 5 pm.
- Evening courses should be offered 5 pm or later. 5 – 5:50 pm is ok, the rest should be “blocked”.
- Stay away from 5 – 6:40 pm for evening courses.
- Blocked (Example; ((2) day- (4) credit) courses should be offered from 8 am – 8 pm.
- Classes have to be distributed throughout the day so that with no more than 10% scheduled at any hour.

2014 APPA Thought Leaders Series: “Use Total Cost of Ownership as a Guide”

Build New

Renovate with Addition
2014 APPA Thought Leaders Series: “Use Total Cost of Ownership as a Guide”

The Building:

- 133,000 GSF
- 24 GU Classrooms – All supporting Collaborative Learning
- 4 Academic Department Suites
- $33.4 Million – Project Budget
- $26.5 – Construction Budget
The Classrooms:
- 24 Active Learning (AL) Classrooms
- 3 Basic types:
  - AL Basic (adaptable to ALE)
  - AL Enhanced
  - Lecture
- High-tech – Wireless connectivity
- Support for all smart devices –
  - Phones, tables, laptops
- Always Accessible to Students

2011 Utilization Goals – Established as part of Jamrich Hall Design Process
- Increase classroom utilization to match national standards
- Rebalance classroom capacities to better match demand

<table>
<thead>
<tr>
<th></th>
<th>Classroom Utilization</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>8am - 10pm</td>
<td>Monday - Thursday</td>
<td>57%</td>
</tr>
<tr>
<td>8am - 5pm</td>
<td>Monday - Thursday</td>
<td>75%</td>
</tr>
<tr>
<td>8am - 5pm</td>
<td>Friday</td>
<td>33%</td>
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</tbody>
</table>

(WCH – Weekly Classroom Hours)
The Classrooms:

2014 General Classroom Utilization – All Academic Buildings

<table>
<thead>
<tr>
<th>Year</th>
<th>Room Utilization</th>
<th>Seat Utilization</th>
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</thead>
<tbody>
<tr>
<td>2012</td>
<td>52.0% / 22 WCH</td>
<td>56.8%</td>
</tr>
<tr>
<td>2014</td>
<td>62.8% / 28.36 WCH</td>
<td>63.5%</td>
</tr>
</tbody>
</table>

NMU target of 28.5 WCH - Achieved

Informal Learning:
- 7 Informal Learning Areas
- Extension of classrooms
- Variety of Seating
- Technology Equipped
The Technology:
Digital Messaging/Scheduling

Award finalist in the AMX campus impact category at the 2015 University-Business Technology conference.
This Project Facilitated:

- A paradigm shift in the way in which NMU delivered instruction
- Eliminated excess space, right sized classroom capacity and supplied the technology necessary to support student success
- Provided learning spaces outside of the classroom
- A complete overhaul to course scheduling for all academic units
- Operations efficiencies with campus mechanical systems
- Eliminated outdated and inefficient structures
Questions