

**Northern
Michigan
University**



**Facilities
Five Year Master Plan
October 2006**



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Section I

Mission



Mission Statement

Northern Michigan University, by providing quality academic programs, strong student support, and extensive regional service for its stakeholders in the Upper Midwest, challenges its students, faculty, staff, and alumni to strive for excellence, both inside and outside the classroom, and to become outstanding citizens and leaders.

To accomplish this mission, Northern provides a supportive living and learning environment that includes high-caliber undergraduate and graduate programs, personal attention, extensive use of modern technology, and continuous improvement of curriculum and services through systematic assessment. Challenging themselves and their students, Northern faculty and staff are dedicated to effective teaching and intellectual inquiry; to including students as learning partners in their research, scholarship, and other professional activities; and to advancing the university's roles as a service provider and as a cultural and recreational center in the Upper Peninsula. Northern Michigan University students will study ethics, humanitarian values, and cultural awareness in a strong general education program, as well as master specific knowledge in a major career field. As graduates who are life-long learners, they will possess the skills and attitudes to succeed in a fast-paced, constantly evolving, multi-cultural world. As alumni, they will be challenged to continue an NMU tradition, that of distinguishing themselves in their careers and communities.

February 2003



Vision Statement

Northern Michigan University will be the quality, comprehensive public University of choice in the Midwest where students receive individualized attention in a high-tech learning environment.





Strategic Directions

- Strategic Direction #1:** NMU will continue to pursue enrollment growth through fall 2008 per the university's enrollment management network plan.
- Strategic Direction #2:** NMU will grow the number and variety of its off campus and distance learning offerings at the undergraduate and graduate level.
- Strategic Direction #3:** NMU will continue to promote Northern Michigan University's image as the quality, comprehensive, public higher education institution of choice in the Midwest where students receive individualized attention in a high-tech learning environment.
- Strategic Direction #4:** Over a five year period, NMU will increase the resources available for enrollment, technological initiatives, research, and new programmatic initiatives, including internationalizing the campus and the Superior Edge program.



Section II

Instructional

Programming



ACADEMIC PROGRAMS

Baccalaureate Degree Programs

Major

Accounting
Accounting/Computer Information
Systems

Accounting/Corporate Finance

Accounting/Financial Planning

Applied Math

Art and Design - BS or BA

Art and Design - BFA

Art and Design Education

Concentrations

Ceramics

Jewelry/Metalsmithing
/Blacksmithing

Drawing/Painting

Electronic Imaging

Photography

Environmental Design

Printmaking

Film/Video

Product Design

Furniture Design

Sculpture

Graphic Communication

Woodworking

Illustration

Athletic Training

Biochemistry

Biology

Biology Education

Botany

Business Computer Information Systems

Concentrations

Marketing

Software Development

Networking

Systems Analysis

End User/Help Desk

Business Education

Business Undeclared

Chemistry

Chemistry (ACS Certified)

Chemistry Education

Clinical Laboratory Scientist

Clinical Laboratory Scientist-Microbiology

Clinical System Analysis

Communication Disorders

Computer Science

Construction Management

Criminal Justice

Cytotechnology

Diagnostic Genetics

Earth Science

Earth Science Education

Ecology

Economics

Economics Education

Electronics Engineering Technology

Elementary Education (Undeclared)



ACADEMIC PROGRAMS

Baccalaureate Degree Programs (*continued*)

Major

Emotionally Impaired/Elementary Education

Emotionally Impaired/Secondary Education

English

English/Elementary Education

English/Graduate Bound

English/Secondary Education

Entertainment and Sports Promotion

Entrepreneurship

Environmental Conservation

Environmental Sciences

Concentrations

Biological

Physical

Political Science

Financial Management

Forensics Biochemistry

French

French Education

General Science/Biology

General Science/Chemistry

General Science/Earth Science

General Science/Physics

Geographic Information Systems

Geography Education

Geography/Human

Geography/Physical

Geography/Social Studies Education

Health

Health Education

Health Education/Secondary Education

History

Histotechnology

History Education

Hospitality Management

Individualized Studies

Industrial Technology

Industrial Technology Education

International Studies

Language Arts/Elementary Education

Liberal Arts and Sciences

Management

Management of Health and Fitness

Marketing

Concentration

IT Marketing

Mass Communications

Mathematics

Mathematics/Elementary Education

Mathematics/Secondary Education

Mechanical Engineering Technology

Media Production and New Technology

Media Studies

Mentally Impaired/Elementary Education

Mentally Impaired/Secondary Education

Microbiology

Music

Music Education

Network Computing

Nursing

Outdoor Leadership and Management

Philosophy

Physical Education



ACADEMIC PROGRAMS

Baccalaureate Degree Programs (*continued*)

Major

Physical Education/ED	Social Science/Economics
Physics	Social Science/Geography
Physics Education	Social Science/History
Physiology	Social Science/Political Science
Planning	Social Science/Sociology
Political Science	Social Studies/Elementary Education
Political Science Education	Social Studies/Secondary Education
Political Science/Pre-Law	Social Work
Pre-Architecture	Sociology
Pre-Dental	Sociology in Liberal Arts
Pre-Engineering	Spanish
Pre-Law	Spanish Education
Pre-Medicine	Special Education/Undeclared
Pre-Optometry	Speech Communication
Pre-Pharmacy	Sports Science
Pre-Veterinary	Technical Communication
Preschool/Family Life Services	Technology and Applied Sciences
Psychology	Theatre
Psychology/Behavior Analysis	Undeclared
Psychology/Graduate School Preparation	Water Science
Public Administration	Writing
Public Relations	Zoology
Science/Elementary Education	
Science Technologist	
Ski Area Business Management	



ACADEMIC PROGRAMS

Associate Degree Programs

Major

Automotive Service Technology
Aviation Maintenance Technology
Building Technology
Child Care Services
Climate Control Technology
Clinical Laboratory Technician
Computer Aided Design- Mechanical
Computer Information Systems
Crafts
Criminal Justice
Electromechanical Technology
Electronics Technology
Food Service Management
General Business
General Studies
Health Information Processing
Histotechnician
Individualized Studies
Industrial Maintenance
Industrial Media
Law Enforcement
Liberal Studies
Manufacturing Technology
Media Illustration
Office Information Assistant
Science Technician
Water Treatment Technology

Certificate Programs

Aviation Maintenance Technology
Automotive Service
Carpentry
Clinical Assistant
Computer Numerical Control Technology
Geographic Information Systems
Heating and Air Conditioning/Refrigeration
Individualized Studies
Numerical Control Technology
Office Services
Paraprofessional Instructional Aide
Practical Nursing
Surgical Technology
Water Treatment Technology

Diploma Programs

Advanced Law Enforcement
Collision Repair Technology
Cosmetology
Local Corrections

Certifications

Corrections Officer
Cosmetology Instructor
Manicurist
Police Academy



ACADEMIC PROGRAMS

Graduate Programs

Administrative Service
Community Planning
General Administration
Public Administration
Biology
Chemistry
Criminal Justice
Biochemistry
Communication Disorders
English
 Literature
 Pedagogy
 Writing
 Creative Writing
Exercise Science
Individualized Studies
Nursing
Advanced Adult Health Nursing
Family Nurse Practitioner
Public Administration
 Community Planning
 Criminal Justice
 Financial Administration
 General Administration
 Health Care Administration
 Personnel and Labor Relations
 State and Local Administration

(Certificates)

Budget Administration
Criminal Justice Management
Health Care Administration
Personnel Administration
Program Evaluation and Analysis
Psychology
Training and Development

EDUCATION

Counseling
School Counseling
Educational Administration
Administration and Supervision
Instructional Leadership
Elementary Education
Mathematics Education
Mathematics and Science Education
Enhanced Mathematics and Science Education
Reading
Reading Specialist
Science Education
Secondary Education
 Art and Design
 Biology
 Chemistry
 English
 French



ACADEMIC PROGRAMS

EDUCATION (*continued*)

Geography

Political Science

Spanish

Special Education

Learning Disabilities

Education Specialist

Administration and Supervision

Education Certificates

State Professional Education Certificate, Elementary

State Professional Education Certificate, Secondary

Additional Endorsement

School Guidance Counseling Endorsement

Post-Baccalaureate Programs

Elementary Provisional Certificate

Secondary Provisional Certificate



ACADEMIC PROGRAMS

Elementary Education Minors

Elementary Education Planned Component
English
French Education
Geography
History
Language Arts
Mathematics
Physical Education
Science
Social Studies
Spanish Education
Special Education/Psychology

Secondary Education Minors

Art & Design Education
Biology Education
Chemistry Education
Earth Science Education
Economics Education
English Education
Environmental Conservation Education
French Education
Geography Education
Health and Nutrition Minor
History Education
Mathematics Education
Physical Education
Physical Education/Coaching
Physics Education

Political Science Education
Psychology Education
Spanish Education
Special Education/Psychology

Non-Education Minors

Accounting
Accounting/Computer Information Systems
Anthropology
Applied Ethics
Architectural Technology
Art & Design
Art History
Automotive Service Tech
Biology
Broadcasting
Broadcasting/Production
Business Administration
Chemistry
Child Care Services
Clinical Laboratory Techniques
Communications Disorders
Computer Aided Design/Mechanical
Computer Information Systems
Computer Science
Construction Systems
Contracted Minor
Criminal Justice



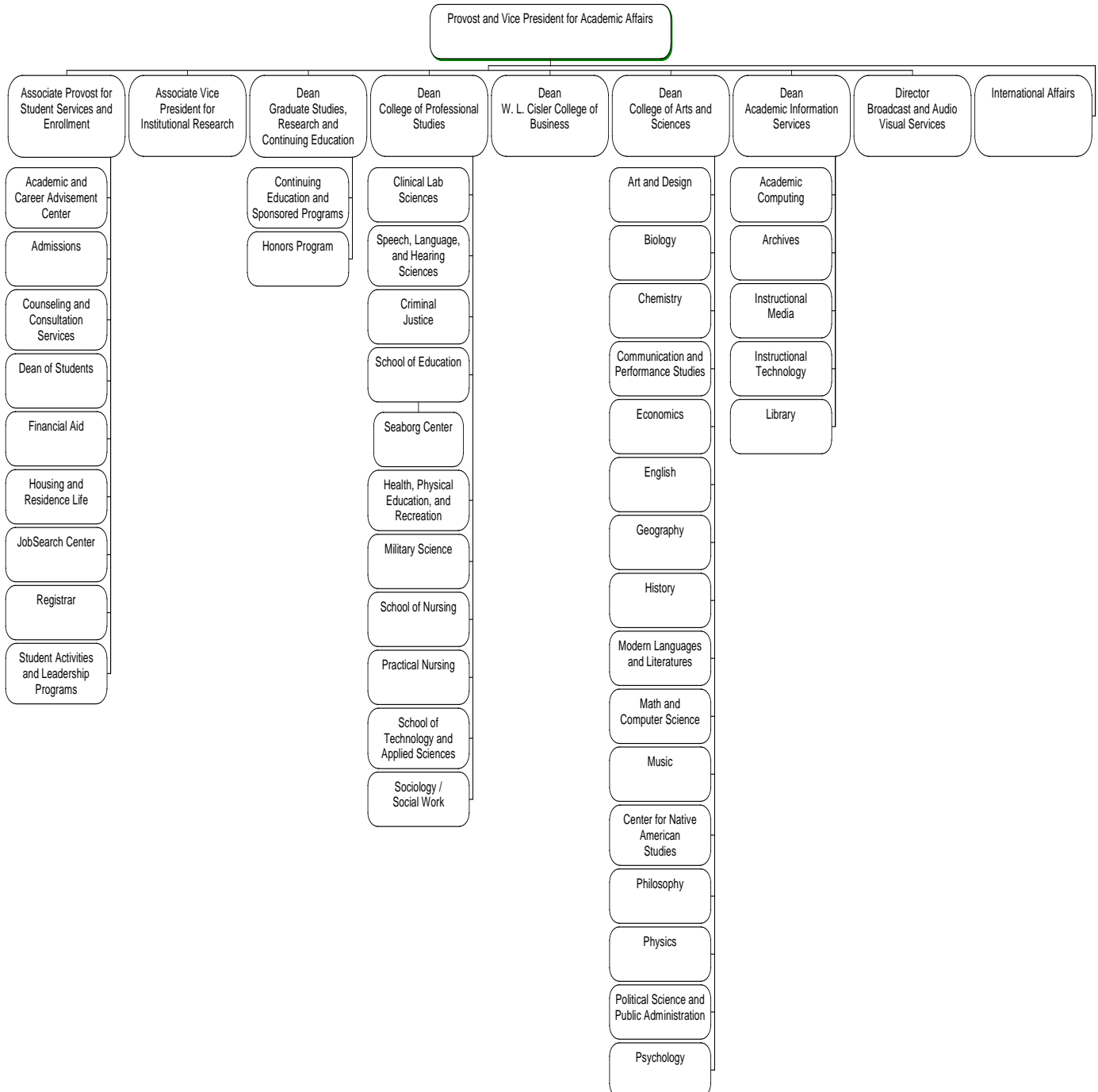
ACADEMIC PROGRAMS

Non-Education Minors (*continued*)

Earth Science	Mathematics Cluster
Economics	Military Science
Electromechanical Technology	Music
Electronics	Native American Studies
Electronics Service Technology	Nutrition
Emergency Medical Services	Office Services
English	Outdoor Leadership
Environmental Conservation	Outdoor Recreation
Finance	Outdoor Recreation Cluster
French	Performance Theatre
Gender Studies	Philosophy
Geography/Human	Physical Education/General
Geography/Physical	Physical Education/Coaching
German	Physics
Health Cluster	Planning
Health Education	Policy Evaluation Cluster
History	Political Science
Hospitality Service Management	Public History
Human Behavior Cluster	Psychology
Human Biology	Public Administration
Human Services	Public Relations
Industrial Maintenance Technology	Religious Studies
International Studies	Research Analyst
Interpretation & Outdoor Education	Social Welfare
Journalism	Sociology
Labor Relations	Spanish
Labor Studies	Speech Cluster
Latin American Studies	Speech Communications
Management	Substance Abuse Counseling
Manufacturing	Technical Theatre
Marketing	Theatre
Mathematics	Writing



Academic Affairs Division





INSTRUCTIONAL PROGRAMMING

Existing Academic Programs and Projected Programming Changes

Northern Michigan University's (NMU) vision is to be the comprehensive university of choice in the Midwest where students receive individualized attention in a high tech learning environment. Northern has experienced continued success in our efforts to grow enrollment. For Fall 2006, we are estimating an enrollment of 9,600 students, which will be the highest level in Northern's 106-year-history. This continued growth has come despite the declining enrollment in Upper Peninsula K-12 schools. Northern is continuing to attract more students from outside the Upper Peninsula with more than half of our new freshmen coming from the Lower Peninsula or outside the state, which has a positive impact on the local, regional, and the state and local economy. As noted in the September 20, 2004 editorial in our local newspaper, "Growth at the university is great news for NMU and the local economy, and it's also a challenge." The article noted, "An all-time high number of freshmen – 1,928 – has fueled Northern's growth. That's surprising, given the declining sizes of graduating classes around the Upper Peninsula." The declining sizes of the K-12 population in the Upper Peninsula is a significant challenge to the institution and our geographic location.

Northern has engaged in a year long campus-wide discussion of our academic programs to ensure that we are prepared for and capable of offering a Curriculum for the 21st Century. The discussion included Northern's academic leadership, community leaders, and our Board. The process has included a course of deliberate discussions, in and between units, in well identified venues where this important conversation was engaged. The purposes were: to explore and examine the possibilities; to explore and examine what kind of curriculum would offer us the "superior edge;" and to explore and examine how each area of this campus, not just academics, could play a role in the creation of this curriculum.



INSTRUCTIONAL PROGRAMMING *(continued)*

Existing Academic Programs and Projected Programming Changes *(continued)*

Some examples:

- We are incorporating such important instructional initiatives like service learning, international education, interdisciplinary studies, and other active learning modes into our curriculum without adding to the credit demands of the major.
- We are identifying ways to provide the incentives necessary to develop curriculum products and their delivery which exploit our technical environment and do not necessarily mean only online or distance education.
- We are addressing the conundrum of high class enrollment, i.e., faculty workload, thereby freeing time and energy to focus on quality and innovation.
- We are working to fully integrate academic and student support in a living-learning community.
- We are working to identify a “brand” when it comes to NMU’s undergraduate research.
- We are evaluating the extent to which Northern’s academic majors are designed to meet the learning demands of our students in the worlds they choose to live, as well as to support the goals of the discipline.

Based on the outcomes of this campus discussion, we will evaluate necessary changes in our capital infrastructure to meet the needs of proposed curriculum changes.

Northern has been working with several businesses in order to offer academic programs and training at the former K.I. Sawyer Air Force base located approximately 20 miles from campus. We will be looking to offer courses there within the next fiscal year, which will include potential renovation of facilities. To this end we have now completed the expansion of our wireless network from our main campus out to the air base.



INITIATIVES/ACADEMIC PROGRAM NEEDS WITH IMPACT ON FACILITIES

Instructional Programming:

In 2004 Northern was recently ranked as one of the top Masters schools in the Midwest by U.S. News and World Report. A major part of Northern's success is its high-tech learning environment. NMU provides all full-time undergraduate and graduate students with notebook computers that have built-in wired and wireless networking. Northern now has more than 9,000 notebook computers in the hands of students which are provided as part of the students' tuition and fees (the 2nd lowest in the State). We have developed a campus networking environment that is both wired and wireless and are in the process of building a wireless network that will provide community-wide access to our more than 6,300 students that live off campus in the Marquette area. This will provide higher speed bandwidth to students to utilize for coursework, research, and university services. The university is in the process of completing a conversion of its mainframe system to a web accessible relational database system. The new software consists of six modules that include finance, alumni, student, financial aid, human resources, and general shared data. We also recently completed a new web-based payment plan system for students, as well as an upgrade of the system that allows students to make online payments via ACH or credit card. Northern also is a leader in the development and utilization of web-based and web-enhanced courses. The university has more than 1,758 course sections developed utilizing Web-based software and more than 86 percent of our students are enrolled in at least one or more web-based or web-enhanced course. Northern is a leader in using technology in higher education and has been recognized by Computer World Magazine as a technology leader.

Along with success in enrollment and high-tech learning environment, NMU has seen student credentials continue to climb. NMU's incoming baccalaureate student credentials, high school GPA and ACT scores, are at the highest levels in NMU's history. In addition, our leadership programs such as the Student Leader Fellowship Program and the "Superior Edge" continue to grow and be nationally recognized.

Northern graduates enhance the economy of Michigan by being part of a work force that is among the nation's most technologically advanced and leadership oriented.

The capital outlay projects listed in Section V describe university needs to continue its conversion of the campus to a high-tech learning environment through renovation of existing facilities that are necessary to help support our growing and changing learning environment, including academic, recreational, and living facilities.



COMMUNITY PRESENCE ACTIVITIES

Intercollegiate Athletics and Recreational Sports Facilities

NMU athletic and recreational facilities serve as a regional events center for the entire Upper Peninsula. A number of recreational and leisure programs are offered within the facilities for the community and include ongoing walking programs, recreational programming for children and adults, youth sports camps, and youth hockey. These facilities have also become a major tourist destination for visitors in our area. Approximately 223,000 people pass through the Superior Dome turnstiles on an annual basis. The Superior Dome is home to Northern Michigan University football, and hosts numerous high school football regular season games, as well as the MHSAA football playoffs, Marquette County Youth Football Dome Day, high school track and field meets, NMU and youth soccer tournaments, Lacrosse, local non-profit fundraising events, Michigan Special Olympics, and numerous public school field day programs are several examples of other activities taking place in the Superior Dome. The Superior Dome also serves the needs of regional business and industry by providing a venue for various trade shows and conferences. The Michigan Municipal League, Michigan Association of Counties, Midwest Regional Cable Television Managers meeting, Michigan Association of Water Works, U.P. Job Fairs, Boat, Sport and Recreational Vehicle Show, Marquette County New Car Show, and the U.P. Builders Show are all examples of trade shows and conferences hosted in the Superior Dome. NMU Commencement activities are held in the Superior Dome each December and May.

The Berry Events Center is home to Northern Michigan University hockey and basketball. The facility hosts many junior hockey tournaments, as well as NMU men's and women's club hockey games. The Berry Events Center also plays host to numerous concerts, lectures, banquets, and conferences. NMU students use the facility for activity and classroom academic coursework.

The Physical Education Instructional Facility (PEIF Building) is home to Northern Michigan University volleyball. The facility hosts numerous community events, youth sports tournaments, youth sports camps, Native American Pow Wows, concerts, and lectures. NMU students, faculty, staff, and Marquette area community members utilize recreation venues in the PEIF through recreation memberships daily (year round). The PEIF is a comprehensive indoor recreation facility that contains instructional activity venues and classrooms for NMU students.



COMMUNITY PRESENCE ACTIVITIES *(continued)*



Intercollegiate Athletics

Northern Michigan University offers thirteen (13) intercollegiate men's and women's sports. Approximately 320 student athletes compete in NCAA events annually, with an average of 80 contests held in Marquette County. An average of 110 visiting athletic teams visit the Marquette area annually to compete in events held at NMU. Events held at NMU regularly attract fans from throughout the Upper Peninsula, as well as Northern Wisconsin and Lower Michigan. Fans representing opposing teams from Ohio, Pennsylvania, Illinois, Minnesota, Indiana, and even Alaska, annually attend events at NMU. The majority of these groups spend multiple days on each visit to Marquette.

U.S. Olympic Education Center

NMU is home to the nation's only United States Olympic Education Center. The Center provides Olympic-aspiring athletes the opportunity to continue their education while training to represent all Americans at the Olympic Games and other international events. Since 1985, more than 22,000 athletes from 43 countries have trained at the USOEC. More than 400 of these athletes have made Olympic teams earning 60 Olympic medals, along with high school diplomas and college degrees.





COMMUNITY PRESENCE ACTIVITIES *(continued)*

Northern Initiatives

NMU invests annually in Northern Initiatives (NI), a non-profit economic development corporation now housed on the NMU campus. NI serves the fifteen counties in the Upper Peninsula, twenty-nine counties in the northern Lower Peninsula, and the five Wisconsin counties that border the Upper Peninsula. NI provides lending and consulting services to businesses, manufacturers, and the service industry, making \$21 million in loans to over 350 businesses since 1994.



NORTHERN INITIATIVES
is a non-profit
community development
corporation

Community College and Meeting Needs of Business and Industry

NMU serves the community college role for the citizens of Marquette and Alger Counties. NMU's community college programs offer students an array of associate degrees, certificate programs, diploma programs, and certifications in 50 areas of study.

Northern maintains extensive partnerships with K-12 schools through outreach activities, student teaching positions, and professional development for teachers and administrators. Nearly every school district in the Upper Peninsula has recently hosted NMU student teachers. These partnerships with schools provide experience with all class-levels in public, private, and charter educational settings. To further the value of these experiences, NMU has extended its wireless signal to student teachers in K-12 schools. NMU's Centers for Educational Development and Economic Education and the Seaborg Center for Math and Science Education provide a wide variety of professional development opportunities for teachers and administrators across the Upper Peninsula. NMU also works with a number of schools in Michigan's Lower Peninsula, Northern Wisconsin, and Chicago. Additionally, NMU works with five public school academies (charter schools) in Michigan.



COMMUNITY PRESENCE ACTIVITIES *(continued)*

Distance Education

To provide greater access to education for the citizens of the region, NMU has cooperative arrangements with Michigan Technological University to deliver instructional programs in Houghton, MI; arrangements with Lake Superior State University in Sault Ste. Marie, MI; and Gogebic Community College in Ironwood, MI. Courses are delivered at these locations through on-site instruction, through interactive television, and via the Internet. NMU provides instructional and career pathway and “virtual field trip” experiences to K-12 schools throughout the state using internet-based interactive TV (ITV) technology. These cost-effective ITV services help NMU expand the educational horizon of budget challenged school districts and offer students access to advanced learning services and information about future educational and career options.

Public Broadcasting

NMU’s public television and radio stations are currently transitioning to digital broadcasting. This effort recently received a significant boost with a USDA Rural Development Office grant of \$1 million for Public TV and \$85,000 for Public Radio. NMU intends to use digital television and radio transmissions to offer Michigan’s Upper Peninsula residents high definition broadcasts, plus up to four optional standard definition program streams that contain classroom and course content especially designed for higher education and K-12 instruction. Digital television and radio broadcasts will also have the capability to support broadband data delivery that will benefit instruction and public safety services alike. Both stations continue to provide service learning opportunities for NMU students with hands-on production, graphics, and electronic engineering opportunities.





ECONOMIC IMPACT / PARTNERSHIPS WITH BUSINESS AND INDUSTRY

Economic Impact

Northern Michigan University (NMU) has a significant impact on the economy of the Upper Peninsula (U.P.). According to an economic study completed in March 2001, the total impact that NMU has on economic activity in the U.P. is \$262 million. The study indicated that NMU has an impact on more than 5,000 jobs which represents one of every 25 jobs in the U.P., and one of every five (5) in Marquette County. The economic impact generates a five-to-one return on the annual investment in NMU by the State of Michigan.

Partnerships with Business and Industry

Northern has a variety of partnerships to meet the needs of existing businesses, emerging industries, the public schools, and working adults. Among our current corporate partners with on-site or specially designed education programs are American Eagle Airlines-Regional Aircraft Maintenance Center, Inc., Cleveland-Cliffs, NewPage Corporation, Pioneer Surgical Technology, Ironwood Plastics, Argonics, Inc., Louisiana Pacific, WE Energies, Marquette Board of Light and Power, and Jacquart Fabric.

Internships for NMU students with business, industry, and service providers are critical to quality employment preparations. Among NMU's most well-known internship sponsors are American Express Financial Advisors, General Motors, Hudson's Corporation, Dendreon, Mayo Clinic, Marquette General Health Systems, Marshfield Clinic, Michigan State Police, Michigan DNR, Northwestern Mutual Life, Six Flags Great America, State Farm Insurance, the U.S. Marshall Service, and Wal-Mart.

Systems Control

NMU faculty and staff are coordinating with Systems Control, of Kingsford, MI, to develop a training program for their wiring technicians and test technicians. Training will take place in Systems Control's facility with the initial sessions being conducted by NMU faculty.



ECONOMIC IMPACT / PARTNERSHIPS WITH BUSINESS AND INDUSTRY *(continued)*

School of Technology and Applied Sciences

Cleveland-Cliffs

The School of Technology and Applied Sciences works closely with Cleveland-Cliffs to prepare entry level technical employees for both the Tilden and Empire mining/processing operations. Associate Degree programs in Industrial Electrical and Industrial Maintenance, along with baccalaureate degree programs in Mechanical Engineering Technology, Industrial Technology, and Electronics Engineering Technology, prepare graduates for employment with this local company. Management at Cleveland-Cliffs views the technical programs at NMU as virtually a sole source provider of entry level technical talent to their mining/processing operations. This level of cooperation is dependent on, and evidence of, a close working relationship between academics and industry.

Cleveland-Cliffs is committed to continuing their partnership with Northern Michigan University by leasing additional space within the Jacobetti Center in order to provide state-of-the-art training for their employees. Beginning in the fall semester, two classrooms will be remodeled and dedicated to Cleveland-Cliffs. The new classrooms will provide training space for 1,600 employees that will attend sessions in mine safety, laser alignment, and hydraulics.

Wisconsin Public Service Company

During 2004 a major employee assessment project was conducted by the School of Technology and Applied Sciences for electrical and mechanical maintenance employees at two Wisconsin Public Service electric generation facilities. The assessment resulted in a Training Gap Analysis document which will guide WPS management as employee training is scheduled and delivered as part of an employee upgrade program. WPS is pleased with the work done by NMU faculty.



ECONOMIC IMPACT / PARTNERSHIPS WITH BUSINESS AND INDUSTRY (continued)

AMR (American Eagle Airlines)

An excellent working relationship exists between the NMU School of Technology and Applied Sciences and the AMR Sawyer Maintenance facility resulting in 30-50% of the students graduating in the NMU Aviation Maintenance program being hired by AMR.

Ironwood Plastics

A significant equipment donation, as well as endowed scholarships, has been received from Ironwood Plastics. Curriculum is being proposed to provide students with a certificate in Injection Molding Technology. Upon approval, the program will provide graduates with the necessary skills for entry-level employment within the plastic injection industry.

Regional Organized Labor Unions

Apprentice training for four area trade unions has found a new home. The Local 6 Bricklayers, Local 7 Sheet Metal Workers, Local 8 Iron Workers, in addition to the Local 506 Plumbers and Pipefitters, have all relocated their regional training base to the Jacobetti Center. In addition to the apprentice training, journeyman upgrade sessions within each trade jurisdiction will also be offered. The initial training year will span from August 2006 through June of 2007, and will provide nearly 700 hours of instruction.

The Operating Engineers Local 324, located in Howell, Michigan, has chosen Northern Michigan University as its regional training center for their January session. Thirteen different units of instruction will be offered, ranging from asbestos and hazardous material awareness to welding certifications.

TeamTech Motor Sports

The NMU student group of the Society for Automotive Engineers partnered with TeamTech Motor Sports to build two mini baja vehicles used in student competitions across the Midwest.



ECONOMIC IMPACT / PARTNERSHIPS WITH BUSINESS AND INDUSTRY *(continued)*

Pioneer Surgical Technology

A close working relationship continues between NMU and Pioneer Surgical Technology, a Marquette based designer and manufacturer of orthopedic implants. Entry level production employees are prepared in a one-year CNC program offered by NMU in the Jacobetti Center along with seminars at the nearby Pioneer facility. Other ongoing cooperative programs between NMU and Pioneer Surgical include undergraduate internships and continuing education seminars for Pioneer employees offered by NMU faculty.

Jacquart Fabrics

NMU was hired to provide Quality Control training for employees of Jacquart Fabrics during the summer of 2006. NMU faculty provided the training.

Electrical Line Partnership

A joint venture between Northern Michigan University, The Lake Superior Community Partnership, Michigan Works, and numerous electrical companies (both utilities and contractors) developed the Electrical Line Technician Program to help fill an employment void within the Electrical Power Distribution industry. The curriculum received all equipment through donations, and is located at Sawyer. Northern Michigan University conducted basic electrical training and advanced troubleshooting classes for employees of CMMC, Marquette Board of Light and Power, WE Energies, Taystee Bakery, Argonics Inc., and Bessemer Plywood.



Section III Enrollment and Staffing



Enrollment

Headcount

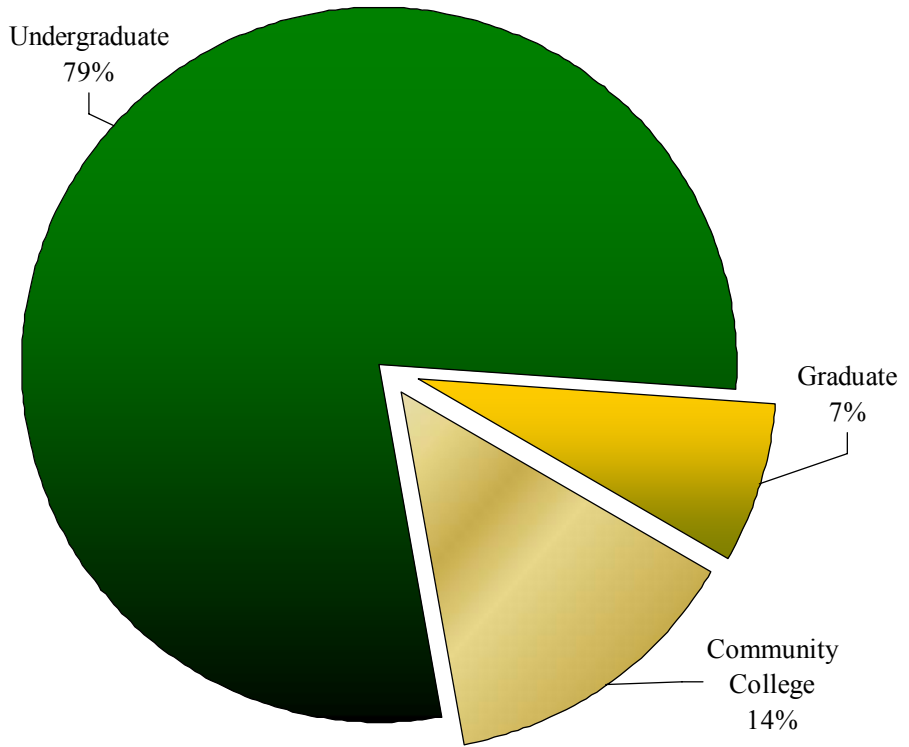
Fall 2006 (n = 9,353 – 10th Day of Class)

Average age

- ▶ Undergraduates: 22.8
- ▶ Graduates: 38.2
- ▶ Overall: 23.9

Other student statistics

- ▶ At least one student from:
 - ▶ All 83 Michigan counties
 - ▶ 46 different states
 - ▶ 19 different countries





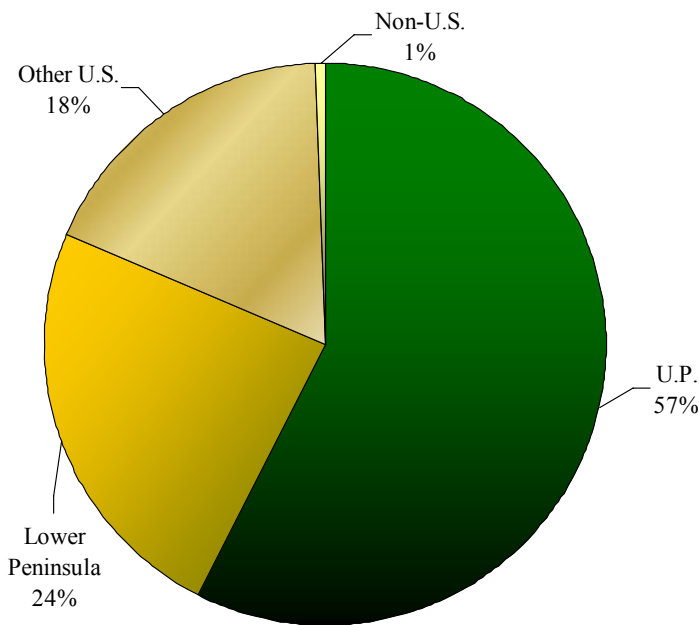
Enrollment

Recruiting Region

Fall 2006 (n = 9,353 – 10th Day of Class)

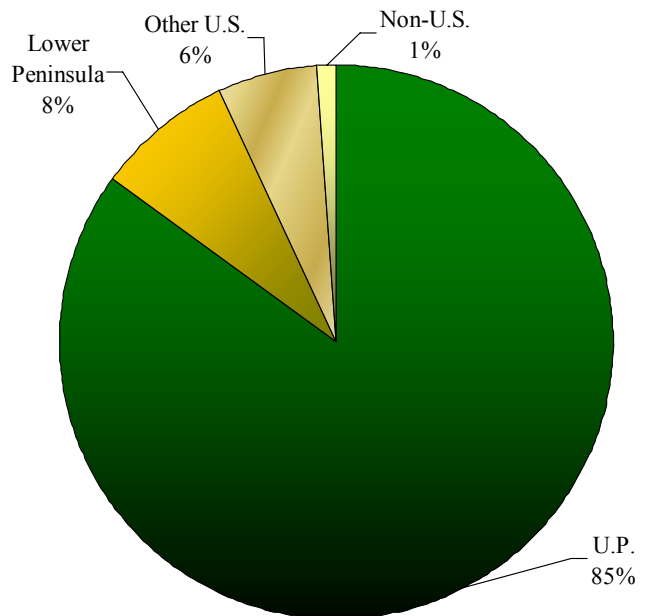
Undergraduate

(n = 8,702)



Graduate

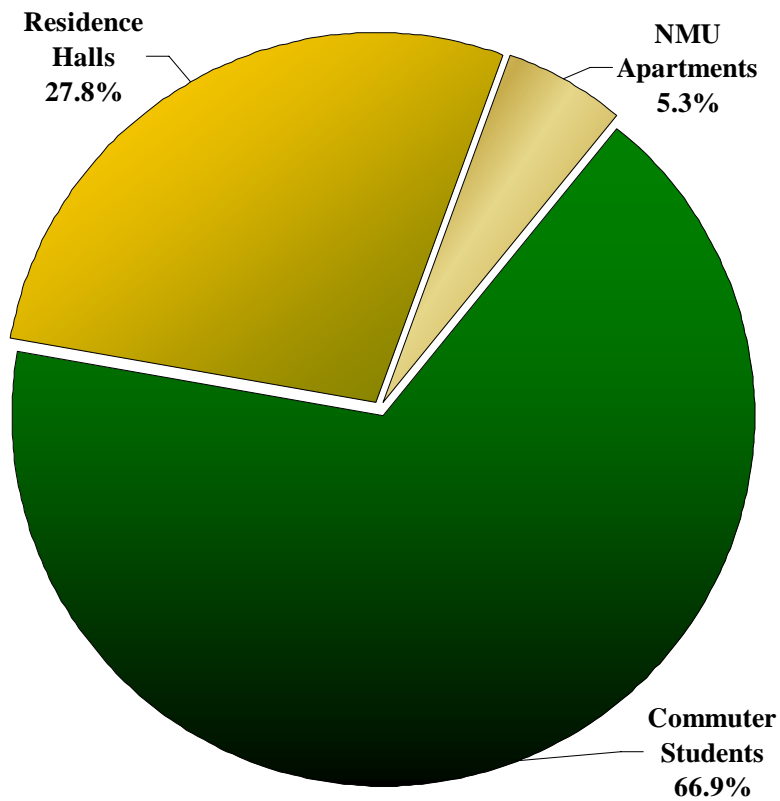
(n = 651)





Enrollment

Where NMU Students Live Fall 2006 (n = 9,353 – 10th Day of Class)



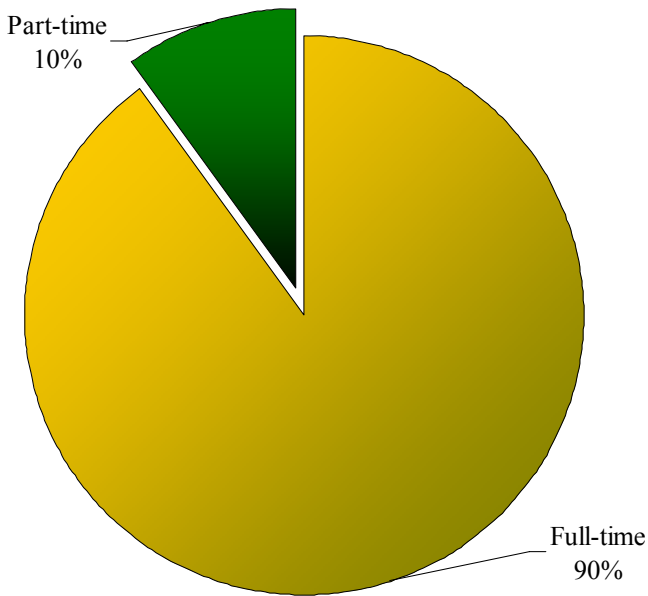


Enrollment

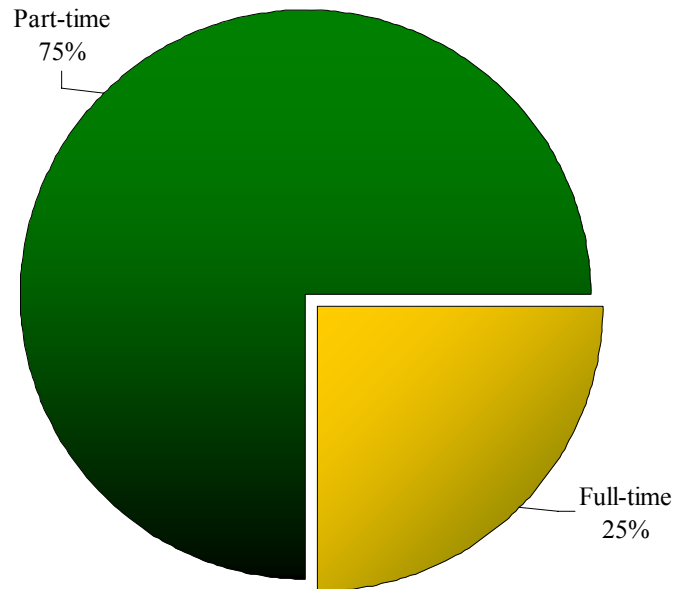
Full-time/Part-time Status

Fall 2006 (n = 9,353 – 10th Day of Class)

Undergraduate (n = 8,702)



Graduate (n = 651)

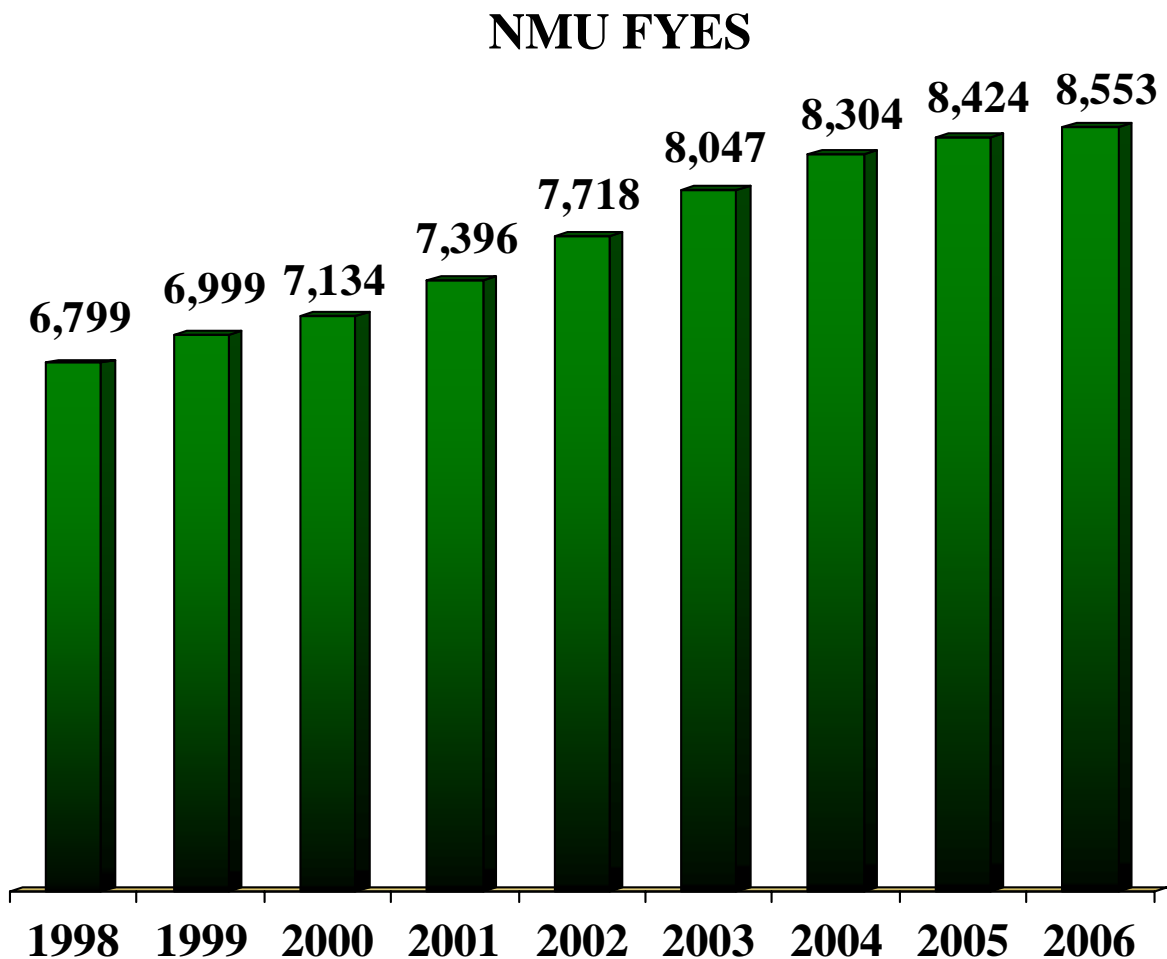




Enrollment

Full Year Equated Student Change

- ▶ FYES increased for the eighth consecutive year:
 - ▼ Increase of 1.5% as compared to prior year
 - ▼ Increase of 25.8% since 1998

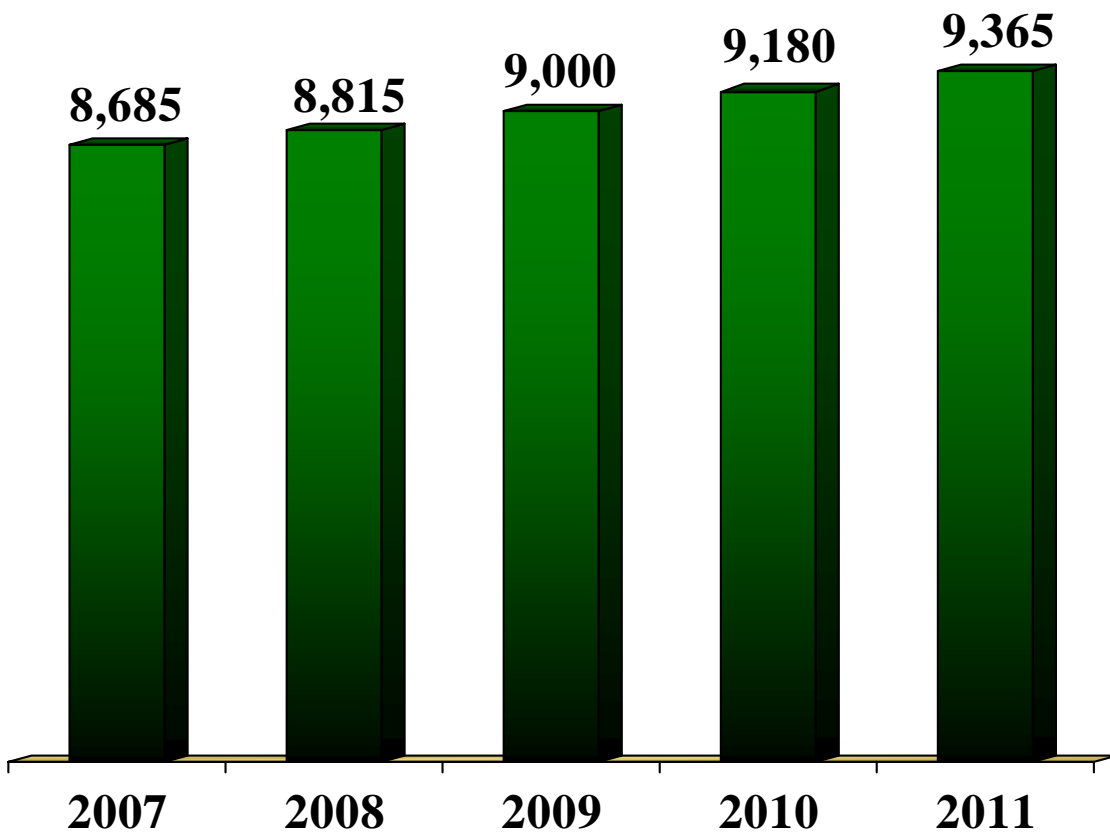




Enrollment

Full Year Equated Student Change (FYES)

5 Year Projection

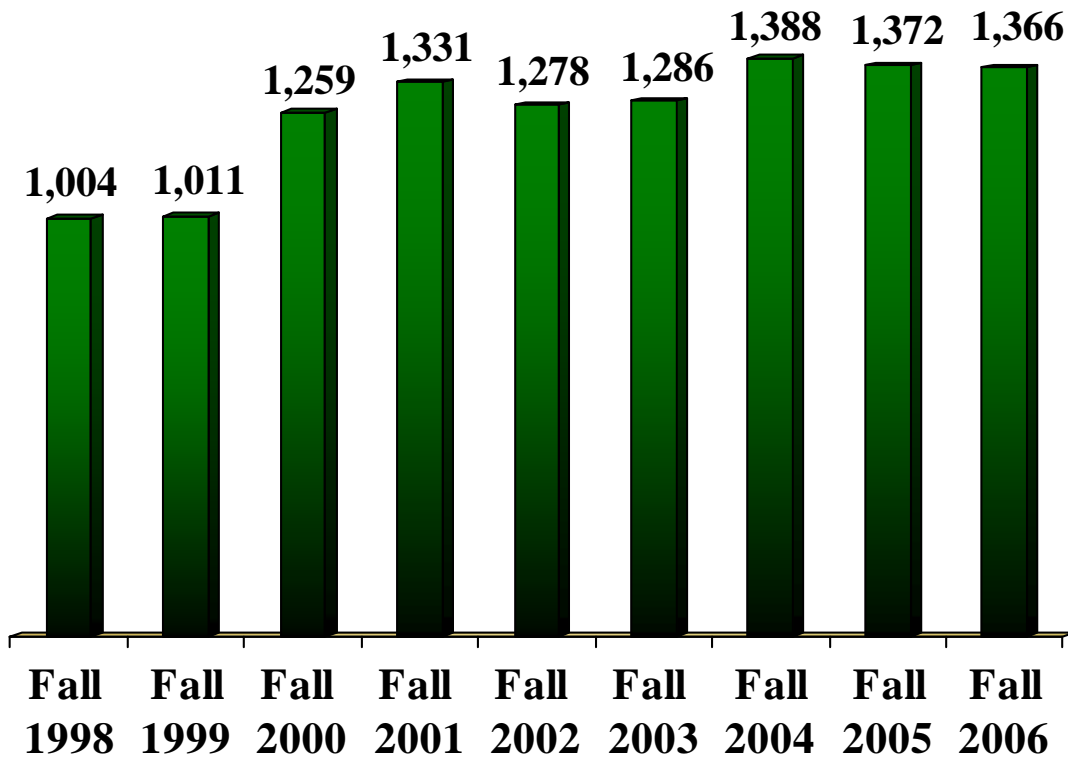




Enrollment

Baccalaureate First-Time, Full-Time New Freshmen

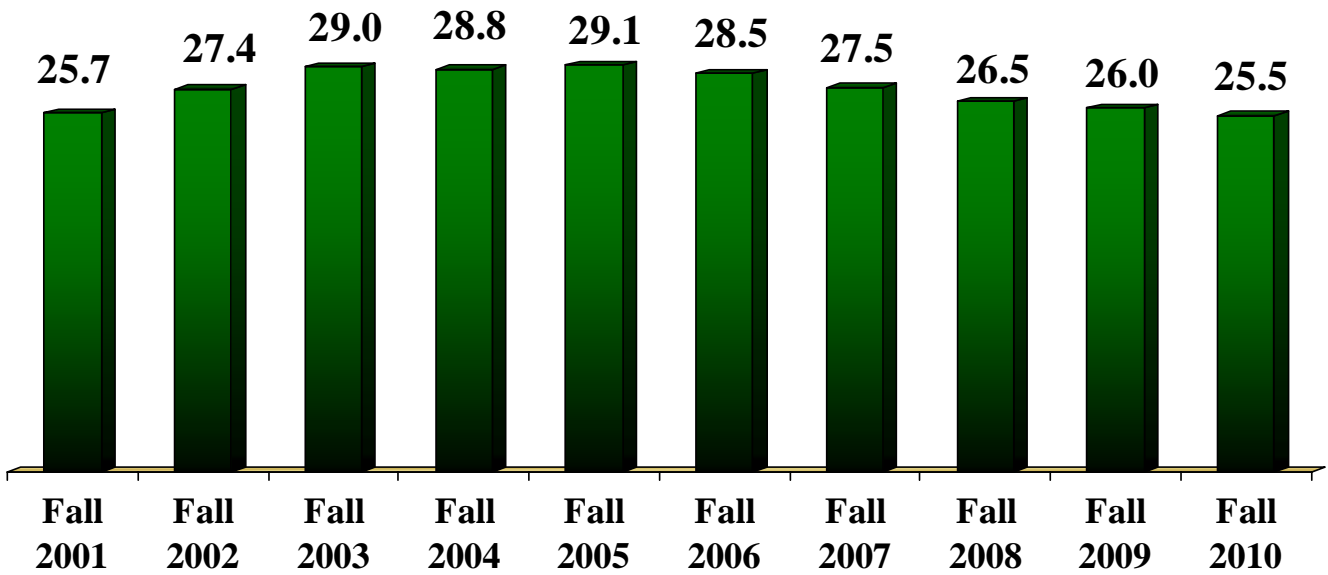
- ▶ Fall 2006 Freshman Class was almost equal to record 2004 number
- ▶ Fall 2006 Freshman Class Increased by 36.1% Since Fall 1998





Enrollment

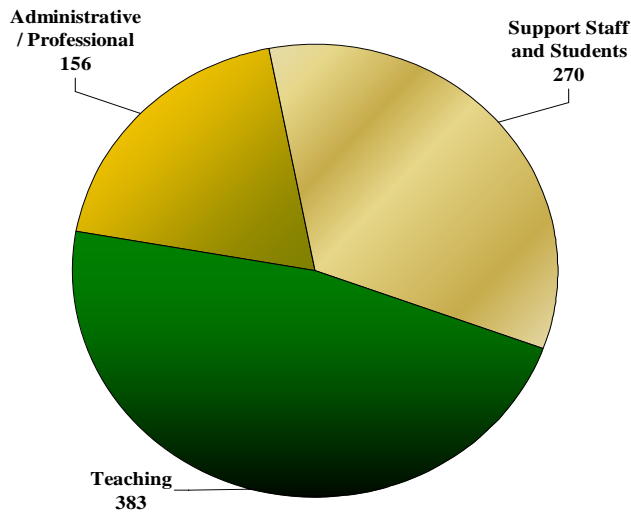
Average Class Size and Projected Average Class Size





Staffing

2005-2006 Full-Time Equivalent By Employee Category



Staff FTE

	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Teaching (Instructional Staff)	357	355	364	362	363	372	383	395	407	419	431
Administrative/Professional Staff	184	187	193	200	186	163	156	156	156	156	156
Service Staff and Students	343	345	312*	308	306	308	270	270	270	270	270

* Decrease in Service Staff and Students is a result of a State reporting change for College Work Study FTE

Student (FYES) - to - Staff Ratios

	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
Teaching (Instructional Staff)	19.80	20.83	21.20	22.23	22.88	22.65	22.33	21.99	21.66	21.48	21.30
Administrative/Professional Staff	38.77	39.55	39.99	40.24	44.65	51.68	54.83	55.67	56.51	57.69	58.85
Service Staff and Students	20.80	21.44	24.74	26.13	27.14	27.53	31.68	32.17	32.65	33.33	34.00



Section IV

Facility

Assessment



Introduction

Northern Michigan University continues to work with the facilities assessment software, keeping the assessment data of the university accurate and current. Northern continues to use a local A&E firm to assist in updating this data for newly renovated spaces. The prioritizing process of the project list is fluid and updated annually. This list is used as a tool to help identify current and future maintenance and renovation projects. Much of the information contained in this report is obtained from this study. Copies of the report are available upon request.





Facilities Assessment

◆ NMU Physical Plant Overview

- 61 Buildings
 - ▼ 3.47 million square feet

- 684 acres
 - ▼ 358 acres on main campus
 - ▼ 120 acres - Longyear Forest
 - ▼ 206 acres - near Mount Marquette

- 3.63 miles of roadway

- 13.95 miles of sidewalk





Facilities Condition Cost Analysis by Priority Class For All State Buildings

Buildings	Immediate	Year One	Year Two to Five	Year Six to Ten	Total
State Non-SBA					
ADA B. VIEMETTI HEALTH CENTER		13,238	49,419	74,701	137,358
BERRY CENTER LINK		6,931	2,544	34,177	43,652
BUS GARAGE			14,661	2,929	17,590
BUTLER BUILDING		14,248	33,724		47,972
*CAREY HALL	84,892	289,501	4,830,667	466,946	5,672,006
DOME / PEIF LINK		1,994	201	13,748	15,943
EVENTS CENTER	982			423,780	424,762
FOREST ROBERTS THEATRE		591,399	564,521	379,688	1,535,608
GLENN T. SEABORG SCIENCE COMPLEX		36,887	58,245	794,018	889,150
*HARRY D. LEE HALL	108,368	262,422	3,588,580	161,363	4,120,733
JACOBETTI CENTER		1,114,242	2,629,455	3,941,733	7,685,430
JACOBETTI STORAGE		17,592	3,510	46,498	67,600
JOHN X. JAMRICH HALL	30,732	490,786	5,864,197	2,077,256	8,462,971
KAYE HOUSE (PRESIDENT'S HOUSE)			45,240	32,753	77,993
LEARNING RESOURCE CENTER	91,749	891,439	10,011,002	2,341,712	13,335,902
LRC/WS LINK		9,396	6,444	17,537	33,377
LUTHER S. WEST SCIENCE BUILDING			26,403	945,978	972,381
McCLINTOCK BUILDING		316,633	582,744	407,180	1,306,557
PHYSICAL EDUCATION INSTRUCTION FACILITY		1,666,462	1,983,002	1,492,344	5,141,808
RIPLEY HEATING PLANT		4,904	414,106	109,522	528,532
SAM M. COHODAS HALL	8,738	37,276	2,511,968	4,853,843	7,411,825
SERVICES BUILDING			95,845	211,890	307,735
SUPERIOR DOME		5,292,475	452,327	337,375	6,082,177
UC/GRIES LINK		34,646		64,964	99,610
WALTER F. GRIES RESIDENCE HALL		32,567	267,862	550,787	851,216
SBA Approved					
HEDGCOCK FIELD HOUSE					-
THOMAS FINE ARTS				25,613	25,613
ART AND DESIGN NORTH		99,057	4,905	829,800	933,762
Other					
UTILITY INFRASTRUCTURE	163,856	86,122	18,887,838	287,902	19,425,718
HARDSCAPE	35,303	83,928	118,836	988,176	1,226,243
CAMPUS SECURITY			414,499		414,499
Totals	524,620	11,394,145	53,462,745	21,914,213	87,295,723

* These Buildings were vacated in FY 2005



Facilities Condition Cost Analysis by Priority Class For All Auxiliary Buildings

<u>Buildings</u>	<u>Immediate</u>	<u>Year One</u>	<u>Year Two to Five</u>	<u>Year Six to Ten</u>	<u>Total</u>
CENTER STREET APARTMENTS	46,404	382,764	4,207,430	529,451	5,166,049
CHARLES C. SPOONER RESIDENCE HALL	52,465		4,860,410	348,312	5,261,187
DON H. BOTTUM UNIVERSITY CENTER	118,341	158,045	12,225,857	1,905,171	14,407,414
GANT HALL	24,837		4,379,739	1,344,039	5,748,615
GUNTHER C. MEYLAND RESIDENCE HALL					-
HALVERSON HALL	138,691		3,990,865	1,344,169	5,473,725
LINCOLN STREET APARTMENTS	98,806	361,575	5,318,821	1,024,703	6,803,905
LUCIAN F. HUNT RESIDENCE HALL	66,049	49,662	4,942,395	272,494	5,330,600
MAGERS HALL		6,218		39,546	45,764
MAUDE L. VAN ANTWERP RESIDENCE HALL	58,623		4,933,376	271,558	5,263,557
NORWOOD STREET APARTMENTS	40,574	682,319	3,114,643	103,218	3,940,754
PAYNE HALL	146,602		4,012,814	1,344,039	5,503,455
QUAD 1 SERVICE	5,671		90,187	288,606	384,464
QUAD 2	75,254	935,464	3,156,895	683,431	4,851,044
SPALDING HALL	58,623		4,238,297	1,338,703	5,635,623
WILBUR D. WEST RESIDENCE HALL	25,389		5,631,370	560,201	6,216,960
WILKINSON HOUSE			198,289		198,289
SUMMIT STREET APARTMENTS	43,657	423,647	5,405,752	1,229,818	7,102,874
Totals	999,986	2,999,694	70,707,140	12,627,459	87,334,279
Totals	999,986	2,999,694	70,707,140	12,627,459	87,334,279





Facility Assessment Summary



Facility Assessment *(continued)*

Deferred Maintenance

Since September 2005, Northern has completed \$6.3 million of deferred maintenance for state buildings, auxiliary buildings, utility infrastructure, security, and hardscape. These projects include, but are not limited to, the following:

- Meyland Hall Renovation
- Ripley Heating Plant Upgrades
- Norwood, Center, and Lincoln Street Apartments Upgrades

When buildings are renovated, deferred maintenance projects are incorporated whenever possible. One capital project that is planned for 2007 that will address maintenance is the Van Antwerp Hall renovation. This fiscal year general fund monies have been allocated to address deferred maintenance items.

Space Utilization

Approximately four years ago NMU purchased room scheduling software and began using it in test mode with a number of departments. Features of the software include assignment of classroom/meeting space, room utilization reporting, web-based availability of space, and other features. At about the time it was getting ready for production, the university converted to a new student information system, delaying its implementation. Currently, the new student information system transition is complete, and the university has again begun to bring the room scheduling software on line. A complete facilities space inventory has been developed and uploaded to the scheduling software (R25). This database includes room square footage, dimensions and assignment for all spaces, both academic and non-academic, as well as capacities and available equipment for classroom, lab, and meeting rooms. The software has been used in test mode to schedule the 2006 fall semester classes. Once this system is on-line for both academic and non-academic scheduling the university will begin to develop and analyze space utilization reports for all university facilities.



Assessment of Campus Utilities System

Water

NMU has 79,247 linear feet of water lines on campus and tries to update aging water mains during new construction, as permitted. Since 1996, 4,718 feet of water main has been replaced or installed in conjunction with various projects. Also, NMU, in cooperation with the City of Marquette, installed seven master water meters around the university to simplify and ease the reading required for university usage. In addition to these meters, the university calibrates and maintains all building meters and compares the readings to the Master Meters to verify the City's billing statements and help detect water loss. During the summer of 2005, NMU installed 987 feet of water main to serve the new Woodland Park Apartments.

Steam

In 1996 NMU completed a major update to its aging main steam distribution system. A total of 27,078 linear feet of un-insulated line was replaced with 13,236 feet of new insulated steam and condensate lines, servicing all major academic buildings on campus. In addition, during the 2000 fiscal year approximately 500 feet of new line was installed to service the campus apartments on the east portion of campus. NMU installed 875 feet of new steam line servicing the Quad I and 175 feet servicing West Hall during the 2002-2003 fiscal year.

Currently, upgrades to the Ripley Heating Plant include replacing two of the existing three steam boilers with new 70,000 lb/hr units. These boilers have been set in place and are currently in the process of being made ready for a fall 2006 start up.





Assessment of Campus Utilities System *(continued)*

Electric

During 2003 the university installed approximately 61,000 feet of high voltage cable to update the primary conductors, replaced three oil-filled loop switches, and all existing 15kv switchgear had new fault indicators and fuses installed.

Currently, as part of the Ripley Heating Plant upgrade project, the university has replaced the existing 40 year old electric switchgear. The change will increase system reliability, provide capacity to split the campus electrical distribution loops to meet future expansions, and provide better coordination with utility protection. As of August 21, 2006, the new switchgear is in operation.

Gas

All gas mains on campus are owned by the SEMCO gas company. NMU is responsible for all laterals. There is a total of 48,351 linear feet of gas line on campus.

Phone

Existing campus phone lines (19,629 feet) were installed in 1985 by ATT Technologies. The buried lines are fiber optic and 24 gauge copper twisted pair. The current plant system is considered to be in very good condition with existing infrastructure for a fiber optic ring to provide a redundant path between the main server rooms on campus.

Storm

On campus there is approximately 55,438 linear feet of storm sewer with the majority of the university's storm run off being directed to the city's system. A portion of the city's storm water is directed through university storm pipes entering campus from the southwest and exiting to the northeast. Design for all new construction tries to address storm water run off with the use of retention ponds. This has been accomplished with most new parking lot projects since 1999, including the retention ponds constructed during the 2005 construction season for the new Woodland Park Apartments.



Assessment of Campus Utilities System *(continued)*

Sanitary

There are 43,332 feet of sanitary sewer lines on campus. Aging sanitary sewer lines are updated with new construction, as permitted. During the 2004 construction season, a section of aging sewer pipe and three new sanitary manholes serving the new Student Services Center, the newly renovated Thomas Fine Arts building, and the new Art and Design addition were replaced/installed to help alleviate an existing maintenance problem of an aging line, and to allow access to an inaccessible section of pipe. During the summer of 2005, 939 feet of new sanitary sewer was installed to serve the new Woodland Park Apartments.

UTILITY SYSTEM	NEED YEAR	ESTIMATED COST
Water System	4	\$150,000
Steam Distribution	3	\$2,000,000
Storm Drain Mains	5	\$57,000
Sanitary Sewer Mains	2	\$150,000
Utility System Total		\$2,357,000



Assessment of Campus Infrastructure

Roadways (3.63 miles)

Improvements:

The last road improvement was completed in 2003 with over 3,800 feet of new roadway being constructed, including curb and gutter and storm sewer by the Michigan Department of Transportation. This project was funded through a Michigan Institutional Roadway (MIR) grant and completed the road network encompassing the university's Recreation and Sports Complex.

Conditions:

Because of the northern proximity of NMU and the harsh winter climate, the campus roadway structures endure severe exposure and subsequent deterioration and damage as a result of the operation of snow clearing equipment. It can be anticipated that significant amounts of asphalt resurfacing will be required in order to maintain the roadways.

Areas Requiring Maintenance:

Several areas around the campus are beginning to show signs of deteriorating pavement but are not in the condition requiring immediate repairs within the next year. The roadway to the northwest from the Lee Drive and Seventh Street intersection past the driveway entrance into Lot #28 will need to be paved in the next several years. These areas have superficial cracks in the pavement that will worsen over time as a result of the harsh winters. The areas will need to be repaired by filling potholes with asphalt patch and crack sealant, and select areas of paved surface may be scarified where necessary to improve drainage patterns. The entire pavement should receive a 2" asphalt surface course and new striping.

Over the next six to ten years, it is expected that additional sections of the campus' asphalt road network will have to be replaced as a result of normal wear and the harsh winter environment. These areas are expected to crack requiring sealant and patchwork before applying the new surface wearing course. It is expected that at least one-half of all campus roadways will need to be repaired and resurfaced within the next ten years. Along with the replacement of the road surface, a significant amount of roadside concrete curb and gutter will also have to be replaced and/or repaired.



Assessment of Campus Infrastructure *(continued)*

Parking (6,877+ spaces total)

Improvements:

Current parking lot conditions on campus range from paved parking with curb and gutter to unimproved gravel lots. During the 2004 construction season Lots 28 and 62 were re-constructed to serve the newly renovated Student Services Building, Learning Resources Center, and the Fine Arts complex. These two parking lots have been dedicated to faculty staff to reduce vehicle turnover and help eliminate vehicular and pedestrian conflicts in the core of campus. During the summer of 2006 a new 207-space parking lot was completed as part of the new Woodland Park Apartments and a portion of Lot 15 was resurfaced.

Conditions:

Because of the northern proximity of the university, significant amounts of snowfall occur on campus each year. As a result of the harsh winter climate, the campus hardscape structures endure more severe exposure and subsequent deterioration and damage as a result of the operation of snow clearing equipment. The streets and sidewalks are cleared of snow and ice before classes begin each morning. With the average annual snowfall generally being above 150 inches, the clearing of snow from sidewalks and streets are a top priority of the campus operations staff. As the sidewalks crack from the effect of freeze and thaw, the surfaces become uneven, and the scraping of the ice and snow causes more and more structural damage. The typical deterioration of the hardscape structures is accelerated as a result of the harsh winter environment.

Lot #12 (Cohodas) is in the worst condition, followed by Lot #14 (Tracy Avenue).

It is planned that within the next year, the potholes be repaired by filling with asphalt patch, and select areas of paved surface be scarified where necessary to improve drainage patterns. The entire lot should then receive a 2" asphalt surface course and new striping.



Assessment of Campus Infrastructure *(continued)*

Sidewalk

There is 13.95 miles of sidewalk on campus. All new sidewalks are reinforced concrete, and designed 10 feet wide to accommodate service vehicles and snow removal traffic. In 2004, in conjunction with the Student Services Parking Lot project, approximately 2,500 feet of sidewalk was replaced between the Academic Mall and the corner of 7th Street and Tracy Avenue. During the summer of 2006 .25 miles of sidewalk were constructed as part of the new Woodland Park Apartments. Despite this replacement there are still a number of walks that do not meet the existing campus standard or are so badly deteriorated that they are in need of replacement. Several sidewalks on campus do not meet current ADA or MBFD guidelines. There are also several areas that currently are not paved, which require a finished surface in order for the maintenance crews to be able to keep those walks clear of snow in the winter.

Several sections of the concrete sidewalk around the campus have cracked, resulting in heaving or sunken sidewalk sections causing uneven settlement at the joints or crack lines. These areas are beginning to become minor trip hazards and are showing signs of deterioration associated with snow plowing, freeze/thaw cycling, and water infiltration. Sidewalks in the vicinity of Spooner Hall and the intersection of Seventh Street and Lee Drive need replacement. Two other areas exist on campus that presently either do not have a concrete sidewalk or the existing sidewalk is not adequate for the conditions.

The campus standard for sidewalks is a 10 foot wide concrete walk. The concrete surface is preferred over asphalt for the durability when scraping snow and ice in the winter months. Within the next two to five years, existing asphalt sidewalks on campus will need to be reconstructed with the campus-standard width geometry and materials so the snow plows can access these walks for clearing and maintaining. The existing walk from Carey Hall east to Waldo Street for accessing the Berry Events Center/Physical Education Instructional Facility/ Superior Dome area is planned for replacement with concrete.



Assessment of Campus Infrastructure *(continued)*

Over the next six to ten years it is expected that additional sections of the campus' concrete sidewalk network will have cracked, resulting in heaving or sunken sidewalk sections causing uneven settlement at the joints. These areas will become trip hazards as a result of the deterioration associated with snow plowing, freeze/thaw cycling, and water infiltration. It is expected that at least one-half of all sidewalks on campus will need to be replaced over the next decade.





Building Bonds

All bonds issued by the university are General Revenue Bonds. The interest on Revenue Bonds are primarily payable from General University Revenue. Total General Revenue Bonds payable are summarized as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Bonds</u>	<u>Interest Rate Swap</u>	<u>Total</u>
2007	\$2,055,000.00	\$2,656,414.00	\$1,064,619.00	\$5,776,033.00
2008	3,170,000.00	2,664,508.00	1,282,347.00	\$7,116,855.00
2009	3,040,000.00	2,570,762.00	1,241,999.00	\$6,852,761.00
2010	3,400,000.00	2,481,867.00	1,201,798.00	\$7,083,665.00
2011	3,280,000.00	2,390,023.00	1,160,554.00	\$6,830,577.00
Total Five years	14,945,000.00	12,763,574.00	5,951,317.00	\$33,659,891.00
Thereafter				
2012-2016	18,770,000.00	10,420,577.00	5,117,905.00	34,308,482.00
2017-2021	20,075,000.00	7,627,743.00	4,064,564.00	31,767,307.00
2022-2026	24,255,000.00	4,413,528.00	2,781,921.00	31,450,449.00
2027-2031	16,860,000.00	2,002,223.00	1,512,101.00	20,374,324.00
2032-2036	10,900,000.00	517,022.00	539,003.00	11,956,025.00
Total	\$105,805,000.00	\$37,744,667.00	\$19,966,811.00	163,516,478.00

Buildings currently obligated to the State Building Authority and lease terms are as follows:

Glen T. Seaborg Science Complex Renovation and Addition

- Phase 1 100% obligated Expires 35 years from March 1, 2001 unless earlier terminated
- Phase 2 100% obligated Expires 35 years from November 1, 2001 unless earlier terminated

Heating Plant Addition/Services Building

- 100% obligated Expires 35 years from February 1, 1997 unless earlier terminated

Fine and Practical Arts Project - Art and Design North and Russell Thomas Fine Arts

- 100% Obligated Expires 35 years from November 1, 2005 unless earlier terminated

Student Services Building Project

- 100% Obligated Expires 35 years from November 1, 2005 unless earlier terminated



Parking Statistics



Assessment of University Land



University Land

The university owns 684 acres comprised of 358 acres on the main campus, 120 acres known as the Longyear Forest in Marquette Township, and 206 acres near Mount Marquette in south Marquette. The accompanying map illustrates the property owned by NMU, as well as property within the NMU boundaries that the university will need to acquire to fulfill future expansion plans. These properties are currently under private ownership as either commercial or residential use.





NMU Facility Statistics (green map)



Section V Facilities Implementation Plan



INTRODUCTION

Northern Michigan University (NMU) is one of the oldest public universities in the State of Michigan having celebrated our 100th birthday on September 19, 1999. Reaching the century milestone is an indication of our past success. Our physical plant was built in the 1960s and 1970s to meet the needs of our students of the past. To prepare our students for the future, many of NMU's east campus facilities need to be transformed to accommodate the programmatic needs of today and the continued development of a state-of-the-art learning environment.



Combined Heat and Power Cogeneration

A solid multi-fuel high pressure steam boiler with an extraction steam turbine will be constructed in an addition to the Ripley Heating Plant to generate steam and electricity for most of the buildings on NMU's campus. The goal is to increase energy efficiency, improve the reliability of electricity, utilize renewable resources, and diversify the fuel sources. As a result, NMU's operating costs will be reduced, new jobs will be created in the area, the dependency on foreign oil and natural gas will be reduced, a market will be created for small wood suppliers' waste wood products, and the environment will benefit because of improved efficiency.

Sam M. Cohodas Hall

The goal of this project is to create a high quality environment for providing resources and services that support the Northern Michigan University student. Further, new program functions will be introduced while efficiently utilizing the existing building structure. Programs include general-purpose and designated classrooms that will place students in closer proximity to faculty offices. Programs will be enhanced by increased interaction and improved availability of programs. Renovation should reflect an easily accessible environment for the student, faculty, administrators, and public users.



INTRODUCTION *(continued)*

Academic Facilities Upgrade Project

The university is continually assessing the operational and physical condition of the facilities on campus. In the latest review, four buildings constructed in the mid-sixties and seventies are in need of considerable upgrades. The goal of this project is to address maintenance items in these buildings, to include the Forest Roberts Theatre, McClintock Building, John X. Jamrich Hall, and the Physical Educational Instructional Facility. Correcting these items will have a positive effect on the operational efficiencies of the facilities and enhance the learning environment.

Renovations and Addition to the Learning Resource Center (LRC)

This building was designed for University programs and needs that were in effect 30 years ago. Renovation of the space is key to the university's vision for development of a learning community for the 21st century, and addresses the teaching and learning technologies that were not available at the time the building was constructed. The renovation will also provide for increasing library needs and expansion of the university archives. The LRC also needs to be brought up to ADA code for barrier-free access and life safety.





SUMMARY

FISCAL YEAR 2008 CAPITAL OUTLAY PROJECT REQUEST

<u>PRIORITY</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u> (in thousands)
1.	Combined Heat and Power Cogeneration	\$49,800
2.	Sam M. Cohodas Hall Renovation	\$16,300
3.	Academic Facilities Upgrade Project	\$12,500
4.	Renovations and Addition to the Learning Resources Center	\$58,400



NORTHERN MICHIGAN UNIVERSITY
 FY 2008 CAPITAL OUTLAY PROJECT REQUEST
 Combined Heat and Power Cogeneration
 Priority Ranking #1
 Project Total Cost (in thousands) = \$49,800

Is The Project a Renovation or New Construction?	Ren <input type="checkbox"/>	New <input checked="" type="checkbox"/>
Is There a 5-Year Master Plan Available? (Project will not be approved without a current 5-year plan on file with the State Budget Office)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are Professionally Developed Program Statements and/or Schematic Plans Available Now?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are Match Resources Currently Available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Has the University Identified Available Operating Funds?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

A. Project Descriptive Narrative

Northern Michigan University (NMU) operates the Ripley Heating Plant, which supplies steam to a majority of this campus' three million square feet of facilities. The primary fuel for the Heating Plant is natural gas, with fuel oil as backup. The Heating Plant is also the primary distribution point for electricity purchased from the Marquette Board of Light & Power (MBLP), a municipal generating station. Backup electrical power consists of emergency levels of individual diesel/natural gas generators in a minimum number of the University's major facilities.

Facilities staff and the consulting engineering firm of Cummins & Barnard, Incorporated, have studied the feasibility of various upgrades/changes to the Ripley Heating Plant, which would increase energy efficiency, reduce overall cost of energy, increase the dependability of electricity availability, utilize renewable resources, and provide for use of diversified fuel sources.

As a result of this review, a Combined Heat and Power (CHP) Cogeneration addition to the existing Plant has been developed. The project would utilize a solid fuel (multi-fuel capable) high pressure boiler rated at 120,000-140,000 pounds per hour, capable of burning wood chips, coal, and natural gas integrated with a 7-10 megawatt extraction steam turbine capable of producing the required University's thermal and electrical needs.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #1: Combined Heat and Power Cogeneration *(continued)*

As part of the feasibility study, Cummins & Barnard and Northern Michigan University met with representatives of the MBLP in an effort to determine if it was advantageous to partner on the project. After extensive analysis it was determined that direct participation was not financially beneficial for either the MBLP or the university. The MBLP is supportive of the project and is willing to assist as needed with electrical generation, distribution, and solid fuel handling. Communication with MBLP and WE Energies confirmed the willingness and availability of coal supplies to meet the generation requirements of the project as an alternate fuel based on economics and availability of wood chips versus coal.

The project includes capacity to provide steam to Marquette General Hospital (MGH) (a regional, not for profit, healthcare facility), which will result in a savings in operating costs for MGH and an increase in efficiency of the Plant and, ultimately, cost savings for the University. The project cost includes a steam line extension from the campus distribution system to MGH, a distance of approximately 3,000 feet.

As a part of our due diligence, the university met with potential providers of wood fiber. The initial reaction from those attending was very positive. The proposed Plant would be able to burn wood chips and wood by-products of the Upper Peninsula wood products industry, for example, tree tops, sawdust, and bark. Discussion of costs of wood by-products and availability on a continuous basis confirmed the viability of this renewable resource as a reliable fuel source for the project.

The gross square footage of this project is approximately 11,500 square feet.

The estimated construction start date for this project would be March 2007, with an estimated completion date of June 2009.

The estimated annual operating cost for this project is \$1,326,000, excluding fuel costs, supplemental/ standby power, and project debt service.

The estimated annual cost avoidance after debt service (over a 30 year period) to the university is at \$1,000,000 to \$1,900,000 depending on the mix of fuel.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #1: Combined Heat and Power Cogeneration *(continued)*

B. Programmatic Benefit to Institution

This capital outlay project will allow Northern to reduce operation and maintenance costs which would increase resources available for programmatic offerings.

The addition to the Ripley Heating Plant, to include a solid fuel boiler and steam turbine, will provide the maximum flexibility to the University, to burn the most economic fuel while ensuring an adequate supply of electrical power for the future. It will improve operational efficiencies and reduce overall costs for heat and power. The project will result in an operational cost avoidance in the face of rising, volatile fuel oil and natural gas markets.

The addition will incorporate the best available technology and will meet and exceed current Michigan Department of Environmental Quality Standards. This facility will be an example for the university and its' students to showcase a multi-fuel Combined Heat and Power (CHP) Cogeneration plant that is burning renewable fuel, generating steam and electricity more efficiently, while meeting the most stringent current day environmental regulations. It should encourage similar projects within the state.

C. Economic Benefit to the State of Michigan

The proposed capital outlay project will provide the following economic benefits to both the local community and the state:

- State of Michigan will benefit by the creation of 90-120 new jobs in the wood industry;
- taxpayers benefit as the facility will be using renewable resources reducing the dependency on foreign oil and natural gas;
- the State of Michigan will benefit as small marginal wood suppliers will have a new regional market for their waste wood products;
- taxpayers will benefit as the project will serve as a model to encourage others in the state to investigate and implement similar projects, reducing the reliance on foreign fuel supplies.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #1: Combined Heat and Power Cogeneration (*continued*)

- the environment will benefit because of the increased efficiency of the CHP Cogeneration technology in producing steam and electricity, thereby, reducing the amount of thermal energy emitted into the atmosphere and Lake Superior in the combustion and condensing process versus separate standalone steam and electric generating stations.

D. Match Resources

1. Local and Regional sources for project:
 - A. University reserves
2. Bonding
3. State Appropriations



NORTHERN MICHIGAN UNIVERSITY
FY 2008 CAPITAL OUTLAY PROJECT REQUEST
Renovations to the Sam M. Cohodas Hall
Priority Ranking #2
Project Total Cost (in thousands) = \$16,300

- Is The Project a Renovation or New Construction? Ren X New ___
Is There a 5-Year Master Plan Available? Yes X No ___
(Project will not be approved without a current 5-year plan on file with the State Budget Office)
Are Professionally Developed Program Statements and/or Schematic Plans Available Now? Yes X No ___
Are Match Resources Currently Available? Yes X No ___
Has the University Identified Available Operating Funds? Yes X No ___

A. Project Descriptive Narrative

Located on the site of the original campus buildings, construction on the six-story Cohodas Building was completed in July 1975. The building contained most of the administrative offices, as well as student related support services departments. The original structure was named after a local produce entrepreneur and philanthropist, Sam M. Cohodas.

The renovation to the Sam M. Cohodas Hall will enhance the quality of services that support the students of Northern Michigan University by changing the use of the first four floors from administrative offices to academic classrooms and faculty offices. This change in use, including those relocated academic departments and classrooms, will have a positive effect on the operation and availability of programs to the general student population.

Two floors of the current six-story structure will be renovated to accommodate classrooms ranging from 690 square feet to 1,150 square feet. One of these classrooms will be a twenty-eight station computer lab specifically used by the Real Time Trading classes. This is a unique program and teaching opportunity where students learn about the financial markets through the use of special software. Students are online with the markets purchasing and selling stocks, bonds, etc. without actually spending real money.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #2: Renovations to the Sam M. Cohodas Hall (*continued*)

Minor renovations will occur in departmental offices as a result of the program changes and efficiency due to incorporating classrooms and faculty offices.

Modifications within Administrative areas vary from technology upgrades supporting new programs, to relocation and expansion necessary to accommodate the projected student enrollments.

Upgrades and new programs shall be supported by the latest technologies not currently existing within the fabric of the structure. The facility has been maintained well and its basic structure and building envelope remain in good condition. However, the existing building support systems are outdated and in poor condition. With the change in use, the opportunity will allow the mechanical, electrical, and information technology systems be upgraded to today's standards. Based on today's barrier-free regulations and the Americans with Disabilities Act, the building requires renovation in the areas of accessibility and support facilities. Vertical circulation components, including stairways and elevators, do not meet today's standards and codes. Door hardware, access ways, signage, etc. also do not meet the requirements of today's programs.

The gross square footage of this project is approximately 104,000 square feet.

The estimated construction start date for this project would be June 2007, with an estimated completion date of August 2008.

The estimated annual operating cost for this project is \$463,505.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #2: Renovations to the Sam M. Cohodas Hall (*continued*)

B. Programmatic Benefit to Institution

Northern Michigan University's (NMU) five-year strategic plan includes the Teaching, Learning, and Communication (TLC) Initiative. This capital outlay project is a part of the TLC Initiative and the continued development of a learning community for the 21st century. The university's goal is a learning environment that:

- meets student and employer needs of the information age;
- promotes the development of independent lifetime learners;
- encourages student-faculty contact and collaboration;
- provides access to technology, regardless of student's economic status;
- builds a stronger partnership with educators and community;
- provides greater opportunities and course offerings for the student.

Renovations to the Cohodas Hall support several new use and programmatic needs. Approximately 30% of this facility will be re-developed for new use groups not currently found within the building. Other existing areas will be upgraded to provide learning environments and support to academic programs and students. It will bring much needed general purpose classrooms in direct proximity of departmental and faculty offices.

C. Economic Benefit to the State of Michigan

The proposed capital outlay project will provide the following economic benefits to both the local community and the state:

- taxpayers will benefit directly with access to advanced educational opportunities;
- taxpayers will benefit indirectly from the more highly educated students that are better prepared to make effective use of technology in the coming century;
- State of Michigan benefits through the renovation and reuse of an existing facility, thus optimizing current campus facilities in lieu of extensive cost for new comparable facilities;
- taxpayers will benefit from the additional capacity and opportunities for enrollment within the University.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #2: Renovations to the Sam M. Cohodas Hall *(continued)*

D. Match Resources

1. Local and Regional sources for project:
 - A. Industry contributions
 - B. NMU Foundation
2. Bonding





NORTHERN MICHIGAN UNIVERSITY
FY 2008 CAPITAL OUTLAY PROJECT REQUEST
Academic Facilities Upgrade Project
Priority Ranking #3
Project Total Cost (in thousands) = \$12,500

Is The Project a Renovation or New Construction? Ren X New
Is There a 5-Year Master Plan Available? Yes X No
(Project will not be approved without a current 5-year plan
on file with the State Budget Office)
Are Professionally Developed Program Statements and/or
Schematic Plans Available Now? Yes No X
Are Match Resources Currently Available? Yes X No
Has the University Identified Available Operating Funds? Yes X No

A. Project Descriptive Narrative

There are four buildings that have been identified that have urgent maintenance issues. Two of these buildings, the Forest Roberts Theatre and McClintock Building, were constructed in 1964; Jamrich Hall was completed in 1969, and the Physical Education Instructional Facility was finished in 1976. These buildings are used for academic purposes, providing general use classrooms, lecture halls, physical education instructional areas, and communication and performing arts area.

The academic facilities upgrades include the replacement of HVAC systems, electrical upgrades, handicap accessibility items, outside brick replacement, and fire alarm system enhancements.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #3: Academic Facilities Upgrade Project (*continued*)

Gross square footages of this project by building:

Forest Roberts Theatre	30,704 square feet
McClintock Building	33,575 square feet
John X. Jamrich Hall	126,112 square feet
Physical Education Instructional Facility	179,627 square feet

The estimated project start date would be June 2007, with an estimated completion date of August 2008.

The estimated annual operating cost for this project by building is:

Forest Roberts Theatre	\$113,367
McClintock Building	\$163,085
John X. Jamrich Hall	\$445,756
Physical Education Instructional Facility	\$812,345

B. Programmatic Benefit to Institution

This capital outlay project will continue the development of a learning community for the 21st century. The university's goal is a learning environment that:

- meets student and employer needs of the information age;
- promotes the development of independent lifetime learners;
- encourages student-faculty contact and collaboration;
- provides access to technology, regardless of student's economic status;
- builds a stronger partnership with educators and community;
- provides greater opportunities and course offerings for the student.

Improvements made in these buildings will enhance the learning environment and increase the operational efficiency of these facilities.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #3: Academic Facilities Upgrade Project (continued)

C. Economic Benefit to the State of Michigan

The proposed capital outlay project will provide the following economic benefits to both the local community and the state:

- taxpayers will benefit directly with access to advanced educational opportunities
- taxpayers will benefit indirectly from the more highly educated students that are better prepared to make effective use of technology in the coming century
- State of Michigan benefits through the renovation and reuse of an existing facility, thus optimizing current campus facilities in lieu of extensive cost for new comparable facilities.

D. Match Resources

1. Local and Regional sources for project:

- A. Industry contributions
- B. NMU Foundation

2. Bonding





NORTHERN MICHIGAN UNIVERSITY
FY 2008 CAPITAL OUTLAY PROJECT REQUEST
Renovations and Addition to the Learning Resources Center
Priority Ranking #4
Project Total Cost (in thousands) = \$58,400

Is The Project a Renovation or New Construction?	Ren <input checked="" type="checkbox"/> New <input type="checkbox"/>
Is There a 5-Year Master Plan Available? (Project will not be approved without a current 5-year plan on file with the State Budget Office)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are Professionally Developed Program Statements and/or Schematic Plans Available Now?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are Match Resources Currently Available?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Has the University Identified Available Operating Funds?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

A. Project Descriptive Narrative

The Learning Resources Center was constructed in 1966. The building was designed for University programs and needs that were in effect 40 years ago. Those needs included temporary office space for faculty which were located on the ground floor of this building. The intent was to expand the library collection to the ground floor when necessary and to create faculty offices elsewhere on campus. During the last five years, a majority of faculty have been relocated on campus. As the last of the faculty have moved from temporary offices in the Learning Resources Center, we renovated the vacated space to create a student gathering space, expanded writing center, a satellite tutoring program, consolidated the Academic Computing operations, and expanded the computer server space. These renovations are temporary in nature until the major building renovation can take place.

Renovation of the facility is key to the university's vision for development of a learning community for the 21st century. The renovation will address the teaching and learning technologies that were not available at the time the building was constructed, and which are necessary to prepare students and K-12 teachers for today and the future global economy. These technologies include:



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #4: Renovations and Addition to the Learning Resources Center (*continued*)

- an interactive and multimedia instructional development center where faculty can design electronic learning environments;
- a learning classroom with capabilities to foster cooperation, communication, efficiency, and greater access to students at a distance and on-site;
- a help and service center where walk-in technical assistance can be provided;
- infrastructure for K-12 and higher education cooperative learning network; and
- work areas with networked ports and power outlets for interactive research with library holdings and remote information resources.

The renovation will also provide for expanded library holdings and expansion of University archives. Renovation of the space occupied by the University's public broadcasting stations will include meeting a federal mandate to upgrade our television station from analog to digital (high definition) by year 2009.

The Learning Resources Center also needs to be brought up to today's standards for ADA barrier free access and life safety. The building requires extensive work, which includes window replacement, masonry repair, and a complete renovation of the HVAC systems. This project will additionally upgrade and renovate the building to meet current architectural, mechanical, electrical codes, and standards.

The estimated gross square footage for this project is 290,300.

The estimated construction start date for this project would be May 2008, with an estimated completion date of December 2009.

The estimated annual operating cost for this project is \$1,389,062.

B. Programmatic Benefit to Institution

Northern Michigan University's (NMU) five-year strategic plan includes the Teaching, Learning, and Communication (TLC) Initiative. This capital outlay project is a key element to the TLC Initiative and the continued development of a learning community for the 21st century. The university's goal is a learning environment that:



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #4: Renovations and Addition to the Learning Resources Center (*continued*)

- meets student and employer needs of the information age;
- promotes the development of independent lifetime learners;
- encourages student-faculty contact and collaboration;
- provides access to technology regardless of student's economic status;
- provides greater access to university resources anytime, anywhere;
- builds stronger partnerships with K-12 education.

These renovations will provide students needed exposure to enhanced teaching and learning technologies that will better prepare them for the highly competitive global job market, where technology is continuing to change at an exponential rate. In addition, expansion of the university's library holdings are necessary to support academic programs, to maintain accreditation standards, and to provide the resources necessary for students to achieve their learning goals. Enhanced distance, multimedia, and interactive learning resources will increase access to location bound students in remote areas of the Upper Peninsula.

C. Economic Benefit to the State of Michigan

The proposed capital outlay project will provide the following economic benefits to both the local community and the state:

- taxpayers will benefit directly with access to advanced educational opportunities;
- taxpayers will benefit indirectly from more highly educated students that are better prepared to make effective use of technology in the coming century;
- ability to provide Upper Peninsula K-12 teachers and administrators with enhanced in-service educational opportunities;
- enhanced facilities for document preservation center would benefit taxpayers throughout the state.



FY 2008 CAPITAL OUTLAY PROJECT REQUEST

Request #4: Renovations and Addition to the Learning Resources Center *(continued)*

D. Match Resources

Federal sources available for project:

1. U.S. Department of Commerce
National Telecommunications Information Administration (NTIA)
Public Telecommunications Financial Planning (PTFP)
2. U.S. Department of Commerce
Telecommunications Information and Infrastructure Assistance Program
3. Corporation for Public Broadcasting (CPB)
Rural Stations Grant Fund Pool for Radio
4. Local and Regional Sources for project:
 - A. Industry Contributions
 - B. NMU Foundation
5. Bonding





Map of campus showing Ripley
Heating Plant, LRC, JXJ PEIF, Forest
Roberts Theatre, McClintock and
SCAC



Status of “In-Progress” State Building Authority Projects

Renovation and Adaptive Re-use of East Campus Facilities Fine and Practical Arts Project

- \$21.23 Million Project (includes 25% NMU match)
- Approved by State Legislature April 2002
- Project is substantially complete

The Fine and Practical Arts project included an addition to the Art and Design Studios North Building, the renovation of Thomas Fine Arts facility, and a new pedestrian link from the Thomas Fine Arts facility to the Student Services Building (C.B. Hedgcock).

An addition to the Art and Design Studios North building unified the Art and Design program components to one area of campus. The addition has faculty offices, studios, classrooms, laboratories, and a gallery/exhibition area for the Art and Design department.

In the Thomas Fine Arts facility, the Music Department expanded to provide additional faculty offices, practice rooms, and general purpose classrooms.





Status of “In-Progress” State Building Authority Projects *(continued)*

Renovation and Adaptive Re-use of East Campus Facilities Student Services Building Project

- \$15.75 Million Project (includes 25% NMU match)
- Approved by State Legislature April 2002
- Project is substantially complete

The adaptive re-use of C.B. Hedgcock by renovation to become a student services building provides for more student friendly support and makes it a more convenient location for students by consolidating to a one-stop service center. The recital hall designed acoustically correct is a great benefit to the university’s Music Department and general university. The facility enhances the university’s education curriculum for the performing arts with a recital hall to accommodate both music and lecture series. The facility has been made accessible per American Disabilities Act (ADA) guidelines.

The departments located in the facility include Student Financial Aid, Financial Services, Housing and Residence Life, Learning Hub, Academic and Career Advisement, Admissions, Dean of Students, Disability Services, Diversity Student Services, JobSearch Center, Hub Student Resource Center, Student Support Services, Honors Program, and Military Science.





UNIVERSITY PROJECTS

Completed From November 1, 2005 to November 1, 2006

With a Total Cost Between \$500,000 - \$1,000,000

No projects with a cost between \$500,000 and \$1,000,000 were considered to be completed during this time period.



UNIVERSITY PROJECTS

Projects Planned November 1, 2006 to November 1, 2007

With a Total Cost Over \$1,000,000

Van Antwerp Hall Renovation

The Van Antwerp Hall renovation will be a continuation of the 10 year plan to renovate all of the existing residence halls. All existing resident rooms, bathroom facilities, and lounges will have upgraded finishes. The entire plumbing, mechanical, and electrical systems will be replaced. A building addition will be constructed to incorporate an elevator for access to all floors including the Quad II basement. The exterior will have a facelift with a new pitched roof, precast concrete panels, and windows. Three story additions with upper level sunrooms will be constructed at the three main entrances. The project budget is yet to be determined.

WNMU-TV Master Control Digital Upgrade

The proposed project will convert WNMU-TV's analog master control system to digital. As such, the project will increase programming to the region through simultaneous broadcasting of independent standard definition (SD) and high definition (HD) signals. The proposed digital master control system will permit the broadcast of two SD and one HD program streams simultaneously. Tripling the program transmission capability available to WNMU-TV will not only facilitate a tremendous boost in educational content but it will also allow the station to add much-needed local program content to our digital streams. The project will also complete one of three major components of the station's digital conversion master plan to assure its compliance with the FCC's digital conversion mandate by the end of 2009 and continue the delivery of high-quality local programming. These projects include the purchase and installation of a digital master control (as described in this proposal), the purchase and installation of a full-power digital transmitter, and the renovation of production facilities to full digital. The project budget for this phase of the digital conversion is \$1.3 million.



Future University Projects

In order to ensure that Northern Michigan University facilities can accommodate the enrollment growth plans of 10,330 students, the following projects are in the planning stages:

Additional Residence Hall Renovations

Using Magers Hall renovation as a model, the remaining seven residence halls will be renovated over the next 5-10 years. Accessible units and common lounges will be created. All existing resident rooms and bathroom facilities will have upgraded finishes and utilities. Building mechanical, plumbing, and electrical systems will be replaced. The building exteriors will get a new facelift with new three story entrances, windows, doors, and pitched roof. An elevator addition will be constructed to access all floors including the basements of Quad I and Quad II.

University Master Plan Update

Northern Michigan University's current campus master plan was developed and adopted by the Board of Trustees in early 1990s, which has helped guide campus development over the last decade. Many of the goals outlined in the plan have been achieved and various plan updates made to reflect these accomplishments. These accomplishments, coupled with the University's enrollment increases, technology changes, and program expansions, warrant a formal and complete review of the plan to develop an updated guide for the next 10 to 15 years.

Landscape Master Plan

The University will begin to investigate ways in which it can lower maintenance costs through the use of different landscape material. A private consulting firm has been retained to inventory the university's existing landscape, identify areas where low maintenance landscape would be appropriate, conduct an analysis of cost savings, and develop recommendations for phased construction. A test plot is being constructed to showcase the plantings that are being considered in the master plan.



Future University Projects *(continued)*

Bike/Ski Path

A feasibility study is being conducted to determine if a separate bike trail system can be developed to help provide an efficient alternative to motor vehicle transportation, reduce conflicts between the increasing number of cyclist and pedestrians, and provide convenient connections to the City of Marquette's bike trail system. The study will also review the possibility of a layout providing a separate trail system for cross country skiing, again connecting the City of Marquette's proposed system.

NMU/Marquette General Hospital Study

A joint study between NMU and Marquette General Hospital is being conducted to review the possibility of a joint parking deck and the connection of Kaye Avenue to Fair Avenue. If feasible, this connection will provide an east-west corridor link that will benefit the City, Hospital, and University.

Lee Hall Renovation

Lee Hall is the second oldest building on campus. Renovations are planned to create an Alumni/Visitor Welcoming Center, NMU Club, University/Upper Peninsula History Museum, and departmental offices for the NMU Foundation. The ballroom on the second floor will be restored and a facility for catering services will be constructed. The construction and reuse of this facility will bring recognition to the University, its heritage, and participation in the community.

Carey Hall Renovation

Carey Hall is the oldest building on campus and is primarily used as transitional space for displaced departments during building renovation projects. The future use of Carey Hall is currently being explored.



Future University Projects *(continued)*

Sawyer Academic Center

NMU is in preliminary discussions with Marquette County about renovating an existing facility at Sawyer International Airport to accommodate both the NMU Aviation Maintenance Associate degree program and other NMU general education courses. The possibility of incorporating the AMR Maintenance Academy for new hires is also being negotiated with American Eagle, a subsidiary of American Airlines.

Quad II

Renovate area to enhance student life and include a student lounge, programming rooms, meeting and study space, deli/coffee shop, and satellite student recreation center. Also, the Hunt/Van Antwerp and Magers/Meyland recreation rooms and lobbies will be renovated.

University Center Renovation

This project will include renovations associated with inner building office moves and future tenant build-outs. Maintenance items, such as the replacement of windows, doors, roof, cooling tower, plumbing fixtures, exit lighting, etc., will be completed.



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