

NMU College of Arts & Sciences Overview

2011-16

Agenda

- Mission Statement
- National enrollment trends with respect to Arts & Sciences
- NMU Scorecard analysis
- Program growth areas within the College of Arts & Sciences
- EEGS- Secrets to success
- Psychology- Behavior Analysis Programs at NMU
- Summary



Mission Statement/Goals

• The College of Arts and Sciences acts as a catalyst for creative and independent thought. It evokes critical thinking and effective communication through active learning, and stimulates lifelong learning habits and development of career skills. Its varied programs encourage diversity, cultural enrichment, and community engagement.

National Enrollment Trends

• Overall fall enrollment in public degree post secondary institutions declined by 1.1% between 2009 and 2014 nationally; in Michigan the drop was 6.9% (the second highest rate in the country: Illinois was worse at 10%).

Source: National Center for Education Statistics



Degrees Conferred 2009-14 (nationally)

 Overall increase of 	+13%
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Biology/Biomedical sciences +21%

Communication, journalism +8%

Computer & Information Sciences +40%

English Language/Literatures -5%

Foreign Languages/Literatures -5%



Degrees Conferred 2009-14 (nationally)

 Mathematics/Statistics 	+30%
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Philosophy/Religious Studies -4%

Physical Sciences +25%

Psychology +20%

Social Sciences/History

Visual & Performing Arts +5%

Source: National Center for Education Statistics



Degrees Conferred 2009-14 (nationally) Summary

- Greatest gains in CIS, Mathematics, Physical Sciences, Psychology and Biology.
- Biggest declines in the humanities and minimal growth in social sciences.



NMU CAS SCORECARD ANALYSIS

- Undergraduate headcount enrollment fall 2015 declined by 7.3%, compared with fall 2011-14 avg. (University decline 10.1%).
- SCH fall 2015 down by 11% compared with fall 2011-14 avg. (University decline 8.9%).

- SCH/FTETF most productive departments (exceed the University avg. of 612.3): EEGS, Economics, History, Political Science, Psychology, Sociology.
- SCH/FTETF least productive departments: Music (364) and MLL (486)

Program Growth Areas 2015-16*

(must have + 5 students from 2015) * preliminary data

- Biology (+63)
- Fisheries & Wildlife Management (+16)
- Forensic Biochemistry (+12)
- Environmental Studies & Sustainability (+7)
- Geomatics (+5)
- International Studies (+5)
- Mobile and Web App Development (+6)



Program Growth Areas 2015-16* (must have + 5 students from 2015) * preliminary data

- Native American Studies (+7)
- Pre-Med (+15)
- Neuroscience (+7)



Biggest drops (>10) in enrollment: Art & Design (-55),
 Biology/Physiology (-48), Zoology (-29), Ecology (-17),
 Communication Studies (-15), Public Relations (-17), English (-14),
 History (-16), Political Science (-25), Psychology Grad Prep (-16)



EEGS' Secrets to Success

Dr. Susy Ziegler, Associate Dean College of Arts & Sciences & EEGS's Department Head

EEGS Department's Experiences with Recruiting and Retaining Students

- Environmental and sustainability programs have broad appeal.
- Multiple small personal touches seem to make a difference.
- Recruiting one student at a time is our focus.
- Environmental science camp for high school students helped.
- Recruiting is just the first step: Careful advising, thoughtful mentoring, time spent with individual students, and facilitating internships and volunteer opportunities help students succeed.

Environmental and Sustainability Programs Have Broad Appeal

LEARNING BY DOING



From the time Maleah was a young child, Northern held a special place in her heart. With two alumni for parents, her family vacationed in Marquette where she gained a love for the community and the university she now calls home.



I like how my major focuses on improving the earth and all its inhabitants. The awesome professors and courses offered within the EEGS department have made my experience at NMU so much fun. My major has made me a better person, I see the world differently than I did before and have learned to really appreciate how truly amazing and special our planet is.





After completing some coursework for his environmental studies and sustainability major, Joe signed up for an internship at the Marquette County Solid Waste Management Authority. This practical experience led to a paid position, and Joe is now working there in the water division. He is passionate about finding better solutions to handling waste and extending the life of the landfill.



The multifaceted nature of environmental studies and sustainability is what makes the major so exciting. It lends itself well to answering complex and daunting questions, such as problems associated with waste management. As a generation we have been left with many unsolved problems and broken systems. Let's find solutions and clean up the pieces. Education is a catalyst to success and potential job placement. In my experience at NMU and through my involvement at MCSWMA, a degree will lead you to higher achievement at a faster rate. The further you take this education the more rapid this advancement will be.



NMU's OLA Native Plants

Sponsored by NMU EEGS Dept.



Indian Blanket

For more information follow on Facebook:

NMU Outdoor Learning Area
or email: ola@nmu.edu





Located at Summit Street and Longyear Avenue Marquette, MI, 49855

EEGS Garden Club
(eegsgardenclub@gmail.com)

Students for Sustainability (nmusustainability@gmail.com)







Located on the west side of the Jacobetti Complex at Northern Michigan University Hawley Street Marquette, MI 49855

Academic Appointments for Campus Visit Program

NORTHERN MICHIGAN UNIVERSITY **ENVIRONMENTAL STUDIES** AND SUSTAINABILITY Bachelor's Degree Program Discover the training ground for a generation of fearless minds



Northern Michigan University 1401 Presque Isle Avenue

Marquette, MI 49855
Earth, Environmental and Geographical Sciences
906-227-2500 | eegs@nmu.edu

www.nmu.edu/eegs

Environmental Science Camp for High School Students in 2014 and 2015











Dedicated Faculty, Engaged Students

Welcome to the Department of EARTH, ENVIRONMENTAL AND GEOGRAPHICAL SCIENCES





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DEPARTMENT OF EARTH. **ENVIRONMENTAL AND** GEOGRAPHICAL SCIENCES

ENVIRONMENTAL SCIENCE ORGANIZATION (ESO)

Members of the Environmental Science Organization commit to an awareness and appreciation of our natural world. They strive to keep informed on global and local environmental issues and to learn about how to be more environmentally blendly. Students from any department are welcome to join.

Activities include hiking trips, environmental movie nights, local voluntuer activities, community speakers, winter hikes and snow sharing trips, Down to Earth Week, and Earth Day campus clean up.

DR. HORMA FROBUCK, Sandy Abstrace 🖾 afroelinamenta edu anortherneso@gmail.com

▶ facebook.com/Environmental/Science/Oversitation

NMU ROCK AND MINERAL CLUB (RMC)

The RMU Rack and Mineral Club is an organization of students, faculty, staff, and local residents who are interesed in geology, physical geography, and rocks and minerals. Members have fun while socializing and learning about the goolings of the Marquette area and the upper Midwest region.

The club meets regularly during the academic year, and members meet informally for field trips.

Past activities include:

- It liking local field trips to learn about the geological history of the area. and the types of rocks and minerals found here
- F Going on a mine neur
- > Noting the Keweenaw Peninsula.

DR. ROBERT RESES, Faculty Advisor murocks@nmu.edu

rregisonna.eta

EEGS GARDEN CLUB

The EEEE Garden Club is an organization of students with a passion for local plants. Our abjective is to educate students and the community, promote health, graw our own food and repopulate native flowers,

"We are changing the world one seed at a time and any student in any major is. welcome to come help us grow."

Artivities include:

- > Developing NMU's Superior Acre Permaculture garden
- > Notunesering at local forms
- > Working with the Warquette Food Co-op

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GAMMA THETA UPSILON (GTU)

GTU is an international geographical honor society. Eligible* students are invited to join. Members of ETU organize events open to all students.

- 1- Histing Carrer Day and Graduate School leterest Might to explore aptions for life after college
- > Contribution to Textbooks for Africa
- 1. Organizing Earth Day celebration for all IEEE student groups

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STUDENTS FOR SUSTAINABILITY

Hersbers of Students for Sostal-rability pursue and promote practices of sustainability. The group's manera is, "Someone can't do everything but everyone can do something."

MS. AMSELA JOHNSON, Tecsby Advisor CCC amillorp@amu.edu b facebook.com/groups/WMUSFSL



NORTHERN TRAIL HEADS (NTH)

Northern Frail Heads is a student organization that promotes group bikes and valuation sections to collect waste on local trails. A goal of ATH is for stadents of Northern Michigan University and members of the community to provide a valuable service to the exception and the recreation areas we all enjoy.

DR. SARRH MITTLEFDRIDT, Northy Advisor 🔛 smittlef@mma.edu

EEGS Department, 2001 New Science Facility + Northern Michigan University, 1401 Presque Isle Avenue, Harquette, MI 49855 ▶906-227-2501 eege@mm.edu ▶facebook.com?SMUSERGS ▶www.mm.edu/eege

Open House for Welcome Week



Advising Party Held Each Semester



Summary





Behavior Analysis Programs at NMU

Dr. Adam Prus, Psychology Department Head

Applied Behavior Analysis

- Most effective and safest therapeutic approach for Autism
 - Trained to provide Early Intensive Behavioral Intervention services to children age 2 and older
 - Effective for other behavioral and emotional disorders
 - Covered by medical insurance in Michigan
- Students currently work in community agencies and provide in-home services
 - Limited practice sites available
- No clinics in the U.P. provide Early Intensive Behavioral Intervention services



Applied Behavior Analysis

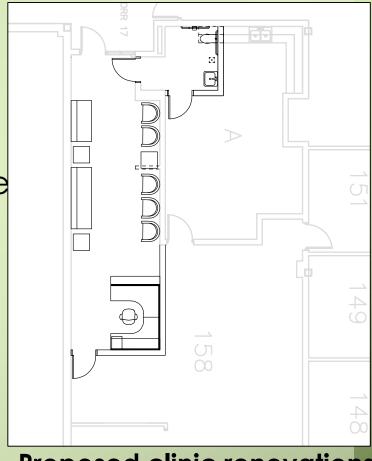
- Programs currently offered
 - Master of Science Applied Behavior Analysis
 - Practicum hours supervised by Dr. Jacob Daar, Assistant Professor in Psychology and a Board Certified Behavior Analyst (BCBA)
 - Graduates can become certified as Board Certified Behavior Analysts
 - Bachelor of Science Behavior Analysis
 - Does not currently meet requirements to become a Board Certified assistant Behavior Analyst (BCaBA)



Jacob Daar, Ph.D., BCBA Assistant Professor

Program Revisions

- Program Revision Objectives: 1) Develop Applied Behavior Analysis clinic at NMU and 2) Provide more certification levels for students in Applied Behavior Analysis
 - ABC News 10 Story: http://abc10up.com/8310724-2/
- Applied Behavior Analysis clinic at NMU
 - Meets community treatment needs
 - Clinic allows for training more students, increasing enrollment



Proposed clinic renovations

ABA – Certification Programs

Registered Behavior Technician

- Two undergraduate courses
- 40 hours supervised experience
- (no degree req.)

Board Certified assistant Behavior Analyst (BCaBA)

- Course sequence offered as Certificate in Behavior Analysis
- 500 hours clinical experience
- Bachelor's degree in any area

Board Certified Behavior Analyst (BCBA)

- Already offered; master's in Applied Behavior Analysis
- 750 hours clinical experience

Applied Behavior Analysis

Expectations

- Adding clinic increases enrollment
 - Master's ABA program: Increase admission to 20 students per year
 - Undergraduate ABA programs: Increase by 20 students per year
- Clinic will provide critical services to children in the community
- Certification levels mean employment for students earning the RBT and then continuing on to become BCaBAs with a bachelor's degree
- As many as half of students earning a bachelor's degree in behavior analysis will pursue a master's degree in behavior analysis at NMU



Summary

- College reflects regional and national trends: overall decline in enrollment (regional), growth in selected science (Biology, Environmental, Psychology), and technical programs (Geomatics, Mobile and Web App).
- Importance of 'high touch.'
- Importance of quality programs.