HEALTH AND NUTRITION SCIENCE
Strategic Planning Department Meeting
March 2, 2012 8:00 – 9:00 AM

Presentation
• See fact sheet

Accreditation
• Athletic Training
  o Accredited
• Dietetics
  o Accredited
• Exercise Science
  o Developing a request
• Teacher Ed/PE
  o Working on a self-study
• Park & Rec
  o could be
  o number of faculty is an issue
• Food Science
  o Could be
  o Number of faculty is an issue
  o Certification
• Athletic training
  o Discussing adding and 1 moving to an entry level graduate program
  o Only 25 programs nationally
  o UM-Duluth and NDSU are the nearest programs
• Trying to move all tenure/tenure track faculty to at least a 20% scholarship
• Need research infrastructure support
• Dietetics
  o Looking at an advance degree (moving from undergraduate)
  o Would have to move instruction to a higher level
• Advanced clinical degrees
  o Require hands on
  o Maybe need clinical & research faculty with overlap
• Success at NIH requires persistence
• Research infrastructure
  o Research coordinators (at least 50%) to help churn out grants
What about Post-docs?

Also need research facilities

Using racquetball courts for research facilities

No wet lab

Sharing space for learning labs

- From a recruitment standpoint – doesn't look good
- There is no presence of this department in Pugsley
- They need a renovation plan for this building

**How is the PH.D. Program Going?**

- Newest grad student is great
- 2 international students
  - Have had promise of research money but didn’t come through
- A joint student with nursing
- Transitioning some from Biological Sciences
- Have space for a couple more
- TOPS Program
  - Funded 2 through Ph.D.
  - Funded 9 through Masters
  - In last 2 years then funding goes away

**3 Specializations in the Masters**

- Athletic training
  - 7-9 MSAT is the goal
  - Capacity of 20 students per year across both grad and undergrad
  - If accept more masters then lose some undergrad
  - 130 declared majors but only 20 get in
  - Similarly, Exercise Science takes 25-30
- Dietetics
  - GPIDEAS
  - 8-10 is the comfort level
  - GPIDEA – select students based on if thesis or Plan B paper
- Sport & Rec Science
  - Have a lot graduating
  - Do have some capacity
  - Also have athletic training masters
  - A lot of the courses are moving to the summer
Do all hires have to be tenure-track?
- Considering some full-time master-prepared instructors for undergrad classes
- Some people in Parks Dept in town with master’s degree

What is the comfort level of the number of grad students per faculty?
- Some programs do cohorts
- Online would be advantageous for people in the state
- Can bring in adjuncts to teach masters classes
- Also, maybe hybrid courses

20% research time – how far away?
- HPER faculty aren't there
- Left over from pre-merger

Retention
- Some general education courses, students can’t get in them so it delays them
- Example – Chemistry
  - 112 - offered in Fall
  - 114 - fewer slots in Spring
  - More slots in Biochemistry in the summer
  - Needs to offered more often
- Food science is interdisciplinary
  - Also depends on courses in other departments

Who are we competing against? With merger, is it hurting or helping Nutritional Science?
- Several other schools have done something similar
  - Iowa State, Colorado State, Virginia Tech, etc.
- For NIH it serves us well
- Will students have degrees that are in demand?
  - Yes
- Trans disciplinary opportunities and research
- Shortage of Ph.D./RDs
- Extension
  - Has been a strength
  - Don’t want it to get lost
  - Staff is specialized
  - Can work with faculty to move research from campus out
  - Service learning
• Just scratching surface of possibilities
  o Could develop huge centers
  o Bring in huge dollars
  o Starting to get grasp on possibilities
• Idea of living laboratory
  o Two-way street to go out and see what problems are out there to be addressed
  o Clinical applications
• Research of a different nature
  o Allows us to be distinct
• Have field specialist engaged in research enterprise
• We need to be nimble
• Unique opportunity
  o Have Clinical Nutrition work with Biomedical Sciences
• Thanks to Suzanne & Becky with Kid Quest program
  o Visibility is important
  o Recruiting tool
  o Top program was invited to present at conference because of experimental learning
  o 8 grad students using program for their research

Workload
• Obtaining credit for what they are doing
• Love collaboration with Honors
• Opportunities for undergrad research (which takes as much time as masters students)
• Differentiation between grad and undergrad
• Need updated facilities
• Students learn in different ways
• Need tables, laptops, screens etc.
• Traditional lecture is not appropriate
• Availability is huge
• Teach most of the classes in this building (intramural)
• Opportunity to reposition building after new indoor practice facility is done
• New active learning room will be opened this summer
• Food Safety minor
  o Numbers going up
  o Now about 19 students
• Food Safety masters is possibility  
  o don’t have those classes here  
• Damage control regarding rumors about program being cut  
• Reorganization of International Affairs  
  o Helped them  
  o Been huge  
  o Taken away from work of faculty  
• Nicole & Norm for research support have been great  
• Share grant support with Arts and Sciences  
• In other institutions grants office fills out the forms and facilitates the work  
• Make sure fully using discipline fee  
  o Have a strategic plan for this  
  o Fully deploy  
  o Don’t carry forward if at all possible
Department of Health and Nutritional Sciences

Mission: We are dedicated to improving quality of life regionally, nationally, and globally by fostering life long learners, conducting innovative science, and delivering effective outreach in the areas of health and nutrition.

Vision: We aim to provide premier leadership in health and nutritional sciences dedicated to excellence in learning, discovery, and outreach.

Values: As a department we value, collegiality, relevance, healthy behaviors, student success, diversity, integrity, innovation service and academic excellence

About the Department

Academics

- We serve about 600 undergraduate and about 100 graduate students with 40 faculty and staff.
- We offer the following programs. (# next to major indicates number of students in major)

<table>
<thead>
<tr>
<th>Majors:</th>
<th>Minors:</th>
<th>Graduate Programs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Training (130)</td>
<td>Food Safety</td>
<td>MS Athletic Training (5)</td>
</tr>
<tr>
<td>Dietetics (86)</td>
<td>Health Education</td>
<td>MS Dietetics (8)</td>
</tr>
<tr>
<td>Exercise Science (141)</td>
<td>Nutrition</td>
<td>MS Sport and Recreational Studies (29)</td>
</tr>
<tr>
<td>HPER (112)</td>
<td>Physical Education</td>
<td>MS Nutrition, Exercise &amp; Food Sciences (35)</td>
</tr>
<tr>
<td>Nutrition &amp; Food Science (51)</td>
<td>Recreation Administration</td>
<td>PhD Nutrition, Exercise &amp; Food Sciences (16)</td>
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<tr>
<td>Physical Education (38)</td>
<td></td>
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</tr>
<tr>
<td>Sport, Park and Recreation Mgmt. (29)</td>
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Research

- Faculty workloads for research range from 10% to 90%. Funding has been obtained from government, foundation, and industry. During the FY10 the department received $2.7 million in awards. In FY11 we received $1.8 million in awards.
- Research areas include ScTTL in Athletic Training education, athletic concussion and return to play, vascular health, nutrigenomics, food science, physical inactivity, muscle bone interactions, prevention of excessive weight gain, and signal transduction regulation by calcium and vitamin D. During the last 2 years, the faculty have published 32 peer-reviewed articles and 30 research/invited presentations.

Extension

- 8 field specialist in Food Safety, Nutrition and 4H Healthy Living
- Provide the opportunity for translational research by providing the outreach needed to put research into practice.
- Experiential learning opportunities for students.

Background and Future Directions

- The Departments of HPER and NFSH merged in 2010 to become the Department of Health and Nutritional Sciences.
- During the first year we focused on becoming acquainted with each other, developing our mission, and updating curriculum. Merging programs to foster collaboration and streamline curriculum

Looking Forward

- Strategic Plan
- Continue to provide high quality teaching, focus on learning environment
- Facilities
- Develop Research Clusters to enhance research and to efficiently manage resources
- Develop partnerships with industry and other universities
# Preliminary SWOT Analysis

## STRENGTHS
- Accredited AT and Dietetics programs.
- New MS and PhD programs promoting multi-disciplinary approach.
- Transdisciplinary Obesity Prevention Education program
- >90% acceptance to graduate and professional programs
- Research quality continually improving
- Nutrigenomics Laboratory

## WEAKNESS
- Facilities do not meet current research requirements (not enough and outdated).
- Faculty in two different locations. Does not support collaboration or translational research.
- Dependence on other departments for accredited programs.
- Not enough research support staff.
- Lack of faculty workload to support research by all faculty.
- Lack of critical mass to develop specific research agenda.
- Base support for those early in research career.

## OPPORTUNITIES
- Collaboration on health based research involving physical activity and nutrition.
- Increased collaboration with Extension.
- ExSci and PETE soon to be accredited.
- New Health Education and PETE Major
- PETE major and yearlong student teaching experience.
- Develop Core facilities to support department research
- Increased research productivity with graduate students and post-docs.
- Native American Outreach
- Rural Child Well Being
- Transformational learning opportunities

## THREATS
- Low enrollment in some programs.
- Competition for funding.
- Loss of quantity foods course
- Students unable to graduate in 4 years do to lack of support courses (chemistry).
- Stress on faculty to stay competitive.
- Not enough critical mass to develop research
- Faculty sustainability
- Low salaries on OK scale
- Research expectations unmatched with appropriate facilities and resources.