Membership applications available- $25 dollars for the year
  • 10 participation points needed to be a “full active member
    o Meetings
    o Volunteer
    o T-Shirt Design Contest
      ▪ Designs needed by 5pm Sept 30th at Dr. Adams’ office
        2240 or by email
      ▪ Winner: Free membership

Next meeting Monday, October 4th at 7pm
Sept 22nd 5pm MSU Food Bank at Olin Health Center
October 21st at 5pm Ronald McDonald House (rides available if needed)

**Careers Using Physiology – Dr. Miksicek (Associate Prof Physiology Dept)**

Undergrad – Northwestern
Graduate School – University of Minn  PHD biochemistry
Post Doc – German Cancer Research Center
Stoneybrook New York – Teaching
MSU since 1995

“In order to be successful in today’s job market, one must take initiative to develop a variety of skills on your own”

**“Triangle” of Physiology**
Allied Health
  • Human and Vet Medicine
Basic Research
  • Academia
Applied Research
  • Industry

**“In between fields”**
Biomedical Ethics
• Psychology

Biotech Start-Up Companies
  • Need people with background in applied research

Intellectual Property
  • Problems because people don’t have a clue about biomedical sciences, need both trained scientists and lawyers

Scientific Writing
  • English and writing along with science majors

“Doctor Fields”
  • Ph.D. ~ 12 years
  • M.D./D.O. ~ 12 years
  • D.V.M ~ 8 years
  • D.D.S. ~ 8 years
  • O.D. ~ 8 years
    o Most fields are controlled by societies, board exams, licensure.
    o Highly regulated
    o Not the case for Ph.D.

Most students in the physiology field are pointed to the “Doctor” fields

Allied Health Careers
  • Physician’s Assistant ~ 6 years
  • Nursing ~ 4 years

Employment Opportunities (Health Care System)
  • Some need BA/BS degrees
  • Parallel options such as nursing have programs that have own programs

Academic Research
  • Larger scope of opportunities that require a doctorate with research experience, teaching experience, administrative, or management experience

Pharmaceutical Research
  • Requiring Ph.D., minimum of a Master’s
    o Director
o Laboratory Head
o Principle Scientist

- Requiring BS/MS
  o Biomarker research scientist
  o Bioreactor research scientist
  o Data analyst
  o Therapeutic Specialist

- Requiring an associate degree or even high school degree w/paralegal experience
  o Pathology technician
  o Admin specialist

Types of Skills that employers are looking for:

- Knowledge-based skills (Ex. reading an EKG)
- Transferable skills (Ex. being able to build excel spreadsheets)
- Attitude skills / personal traits (Ex. working with groups)

Employers like to look for transferable and attitude based skills because those are the skills that are harder to teach. MSU is very good at teaching knowledge based skills but not quite as good at teaching attitude skills/personal traits that come with working in smalls groups or laboratories.

Examples of transferable skills

- Organizing events and activities
- Delegating responsibilities and motivating others
- Managing people and handling complaints
- Multitasking and managing your time
- Creating and managing budgets
- Training and teaching others

12 essentials for success: See Handout