WELCOME TO BSA!

Spring 2023

Pre-med: MD Coursework

- Any major will work!
  - BMS - Anatomy and Physiology concentration sets up classes the best
- Prerequisites:
  - 2 semesters of bio + 1 lab
  - 2 semesters of physics +2 labs **(1 more than BMS reqs)**
  - 2 semesters of general chemistry + 2 labs
  - 2 semesters of organic chemistry + 1 lab **(Group B for BMS)**
  - 2 semesters of math (includes stats and calc)
  - 1 semester of biochemistry
  - 2 semesters of english (includes college comp and advanced writing)

Pre-med: MD Coursework

- Recommended courses:
  - 1 semester of genetics
  - 1 semester of microbiology or environmental health (public health related courses)
  - Non-english language courses
  - 1 semester of psychology or sociology (social science)
  - 1 semester of anatomy and physiology (HIGHLY recommended)

Pre-med: MD Stats

- Research lab hours, experiential hours (shadowing, working in the medical field, volunteering) recommended - NOT required
- MCAT - Medical College Admissions Test
  - Required to apply to US medical schools; scores above 500 (above 50th percentile) preferred
- GPA - Grade Point Average
  - Recommended to have above 3.5 science GPA and above a 3.7 cumulative GPA

Pre-med: PA Coursework

- General course requirements:
  - 2 semesters of general chemistry w lab
  - 2 semesters of biology w lab
  - 1 semester of microbiology w lab
  - 1 semester of anatomy w lab
  - 1 semester of physiology w lab
  - 1 semester of statistics
  - 2 semesters of english
  - 1 semester of psychology

Pre-med: PA Coursework

- Recommended and occasionally required classes
  - 1 semester of physics w lab
  - 1 semester of biochemistry
  - 1 semester of medical terminology
  - 1 semester of genetics
  - 1 semester of organic chemistry
  - 1 semester of sociology (or another humanities course)
  - 1 to 2 semesters of foreign language
  - Additional courses in psychology

Pre-med: PA GPA and GRE

- GPA
  - Most PA programs have a minimum GPA and science GPA requirement between 2.75 and 3.2
  - Overall average GPA of 3.6
- GRE: Graduate Record Examination
  - Average scores:
    - Quantitative (153.1)
    - Verbal (153.7)
    - Writing (4.1)
  - Can be retaken and you can choose which score to send
- Letters of Recommendation
  - 3-5 letters; at least 1 must be from a clinical setting

Pre-med: PA CASPA Experience

- Patient care experience (required!!!)
  - EMT, CNA, phlebotomist, dental hygienist, LVN, RN
  - Required: 500-1000 hours   Average: 3300 hours
- Shadowing
  - Average: 215 hours
- Volunteering
  - Average 720 hours
- Research
- Leadership experience
- Teaching experience
- Extracurricular activities
- Non-healthcare employment

Pre-dental Coursework

- Required
  - 2 semesters biology with lab
  - 2 semesters general chemistry with lab
  - 2 semesters organic chemistry with lab
  - 2 semesters physics with lab
  - 2 semesters english
  - 1 semester humanities

- Recommended/sometimes required
  - Statistics
  - Microbiology
  - Anatomy
  - Physiology
  - Applied art
  - Foreign language

Pre-dental: GPA, DAT, extracurriculars

- GPA: > 3.2 preferred
- DAT: Dental Admission Test
  - Survey of the natural sciences: 100 questions on biology and chemistry
  - Perceptual ability: 90 questions on spatial reasoning
  - Reading comprehension: 50 questions on general topics
  - Quantitative reasoning: 40 questions on statistics, algebra, and analysis
- Experience:
  - Job shadow dentists/gain experience
  - Community service
  - Extracurriculars, clubs, leadership
  - Manual dexterity

Pre-nursing: Coursework

- Prerequisites:
  - 2 semesters english
  - 1 semester anatomy/physiology w/ lab
  - 1 semester biology w/ lab
  - 1 semester microbiology w/ lab
  - 1 semester chemistry w/ lab
  - 1 semester nutrition
  - 1 semester pharmacology
  - 2 semesters psychology

- Recommended:
  - Additional semester of anatomy/physiology (micro or macro)
  - Medical terminology
  - Speech psychology
  - Developmental psychology
  - Additional semester of pharmacology
  - Intro to sociology

Pre-nursing: GPA, Exams

- GPA requirements range between 2.6 and 3.4; average of 3.0
- Multiple exams available
  - Most common: National League for Nursing Pre-Admission Exam (PAX) and Nursing Entrance Exam (NET)
  - Retakes required annually
- Health exams and vaccinations annually

Pre-vet Coursework

- Coursework
  - Depends greatly on desired school
    - Generally the courses needed will be covered by any BMS concentration
  - Although not required, foreign language courses stand out
- GPA
  - Wide range among US schools, 3.2-3.8 overall
    - Some schools look specifically at science GPA
  - CSU (class of 2025): overall average is 3.7; science average is 3.5
- GRE
  - Some schools still require applicants to take the GRE, moving away from it
  - CSU does NOT require it

Pre-vet Experience

- Experience
    - With and Without Veterinarian Supervision
        - With: any in clinic experience or time spent with a veterinarian
        - Without: good to see community involvement
            - Most important is showing you are actually passionate about what you're doing
    - Try to get varied experiences
    - 500 hours is about average
- Involvement
    - Animal related involvement in community and school
    - Look for passion first and foremost
- Skills
    - Like to see demonstrations of communication skills and leadership

Pre-vet Application

- Application
  - Veterinary Medical College Application Service (VMCAS)
  - Some will require supplemental applications
  - Usually 3 letters of recommendation
    - At least one from professor
- Some colleges have altered their requirements for the Spring 2020/Fall 2021 semesters due to CoViD-19
- Ann Bowen is a great resource!!! (Health Professions Advising)

Next Meeting

- Honors Thesis Prep and Planning!

    - Case studies practice and competition!