Preprofessional and Allied Health Advising Center

Preprofessional@du.edu (303) 871-3639

Pre-dental Advising – for students entering Fall 2015 and before

Dental programs have the following required courses:

- 1 Year of Introductory Biology with lab
- 1 Year of Inorganic Chemistry with lab
- 1 Year of Organic Chemistry with lab
- 1 Year of Physics with lab

Introductory Biology Requirement

BIOL 1011 Evolution, Heredity, and Biodiversity (4 cr)
BIOL 1021 Evolution, Heredity, and Biodiversity Lab (1 cr)
BIOL 1010 Physiological Systems (4 cr)
BIOL 1020 Physiological Systems lab (1 cr)
BIOL 2120 Cell Structure and Function (4 cr)
BIOL 2125 Cell Structure lab (1 cr)

Inorganic Chemistry Requirement

CHEM 1010 General Chemistry (3 cr)
CHEM 1240 General Chemistry Lab (1 cr)
CHEM 2011 Analysis of Equilibrium (3 cr)
CHEM 2041 Analysis of Equilibrium Lab (1 cr)
CHEM 2131 Chemistry of the Elements (3 cr)
CHEM 2141 Chemistry of the Elements (1 cr)

Organic Chemistry Requirement

CHEM 2451 Organic Chemistry I (3 cr)
CHEM 2461 Organic Chemistry Lab (1 cr)
CHEM 2452 Organic Chemistry II (3 cr)
CHEM 2462 Organic Chemistry II Lab (1 cr)
CHEM 2453 Organic Chemistry III (3 cr)
CHEM 2463 Organic Chemistry Lab (1 cr)

Biochemistry Recommendation:
Biochemistry is recommended by a few dental schools (Check with the schools that you are considering.)
The recommended course is:

CHEM 3811 Biochemistry-Proteins (3 cr)
**Calculus Requirement**
Calculus is not currently on the DAT, and some dental schools may require a statistics course rather than a calculus course. (Check with the schools that you are considering.)

Calculus Sequence (usually taken in years 1 or 2):
- MATH 1951 – Calculus I (4 credits)
- MATH 1952 – Calculus II (4 credits)
- MATH 1953 – Calculus III (4 credits)

**Physics Requirement**
Physics is required for application to dental schools, but this material is NOT on the DAT. Hence, the physics sequence can be taken in senior year. This option makes going abroad in Fall of junior year possible.

General physics (algebra-based):
- PHYS 1111 General Physics I (5 credits and includes the lab)
- PHYS 1112 Gen. Physics II (5 credits and includes the lab)
- PHYS 1113 Gen Physics III (5 credits and includes the lab)

**Microbiology Requirement**
More dental schools are requiring a course in microbiology. (Check with the schools you are considering.)
- BIOL 3120 General Microbiology

In addition a second course related to microbiology may be required; we recommend:
- BIOL 3670 Molecular Immunology
- BIOL 3910 Viruses and Infectious Human Diseases

**Courses helpful for the DAT**
- BIOL 3120 General Microbiology
- BIOL 3250 Human Physiology

**Courses helpful for the first year of Dental or Medical School**
- BIOL 2450 Human anatomy
- BIOL 2510 General Genetics
- BIOL 3120 General Microbiology
- BIOL 3250 Human Physiology
- BIOL 3640 Introductory Neurobiology
- BIOL 3650 Endocrinology
- BIOL 3670 Molecular Immunology
- BIOL 3800 Human Molecular Biology
- BIOL 3910 Viruses and Infectious Human Diseases
Courses helpful for preparing for an interview

BIOL 3870 Medical Ethics (counts as Bio credit, but not AI-Society credit)

OR

PHIL 2700 Biomedical Ethics (counts as AI-Society)

Recommended Course Schedule for the Required Biology/Chemistry/Physics Courses

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<th>Fall</th>
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<td>PHYS 1111*</td>
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*PHYS 1111 can be taken in the first summer session after the 2\textsuperscript{nd} year at DU, and then Fall of the 3\textsuperscript{rd} Year will be open for Study Abroad. Another option is to take Physics in Year 4.