



NORTHEASTERN STATE UNIVERSITY

College of Science & Health Professions

Post Baccalaureate Prehealth Certificate Program Curriculum

The post baccalaureate certificate program would have three areas of emphasis: (1) an emphasis in allied health pre-professional programming; (2) an emphasis in midlevel provider pre-professional programming; and (3) an emphasis in premedical programming (pre-dental, pre-medicine, pre-optometry, pre-pharmacy, pre-veterinary medicines). **All areas have the prerequisite of one semester introductory biology.** Prototypical curricular examples for these three areas are presented in Table 1-3 below.

Table 1. Post Baccalaureate Certificate Program for Allied Health Dental Hygiene, Medical Imaging & Radiation Science, and Nursing

<p>1st Semester Gross Human Anatomy General Physics I +College Algebra General Chemistry I</p> <p>2nd Semester General Chemistry II Microbiology * Statistics</p>	<p>3rd Semester Human Physiology + Medical Terminology +/* Human Nutrition</p> <p>4th Semester Lifespan Development Professional School Preparation (1 hour)</p>
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* May not be required for your profession, check the prerequisite sheet for your program.

+ Online course at NSU.

Table 2. Post Baccalaureate Certificate Program for Midlevel Providers Occupational Therapy, Physical Therapy, and Physicians' Assistant

<p>1st Semester Gross Human Anatomy +College Algebra General Chemistry I + Introductory Psychology General Physics I</p> <p>2nd Semester General Chemistry II</p> <p>*Microbiology (prerequisite for medical microbiology, immunology, and virology) *General Physics II Lifespan Development</p>	<p>3rd Semester Human Physiology + Medical Terminology * Statistics *Abnormal Psychology</p> <p>4th Semester *Immunology or *Virology or *Medical Microbiology* Professional School Preparation (1 hour) GRE</p>
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* May not be required for your profession, check the prerequisite sheet for your program.

+ Online course at NSU.

Table 3. Post Baccalaureate Certificate Program for Premedical Programming

The premedical (pre-dental, pre-medicine, pre-pharmacy, pre-optometry, and pre-veterinary) students can choose one of three options:

- Option 1:** includes *only* the core prerequisites for their health profession (**Minimum Program Core**);
- Option 2:** includes the core prerequisites *plus* additional upper division life science courses analogous to having a minor in the discipline (**Life Science Program Core**);
- Option 3:** includes the core prerequisites *plus* additional upper division business courses analogous to having a minor in the discipline (**General Business Program Core**).

Option 1: Post baccalaureate Premedical Certificate Program - Minimum Program Core

1st Semester	3rd Semester
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Gross Human Anatomy
+College Algebra

General Chemistry I
General Physics I

2nd Semester
General Chemistry II
Microbiology
*** Statistics
****General Physics II

Organic Chemistry I
*Cell Biology or *Genetics*or *Medical
Microbiology or *Biochemistry
** Animal Nutrition

4th Semester
Organic Chemistry II
*Immunology or *Animal Parasitology or
*Human Physiology or *Virology
Professional School Preparation
DAT, GRE, MCAT, OAT, or PCAT

+ Online course at NSU.

* Must take at least one upper division science course for medical school, two additional upper division sciences (total 16 hours of life sciences) for dental school.

** Pre-veterinary students must have animal nutrition which is offered at Oklahoma State University.

*** Statistics required for pre-optometry students, but recommended for other health programs.

**** May not be required for your health professional program, check prerequisite worksheet.

Option 2: Post baccalaureate Premedical Certificate Program - Life-Science Program Core

1 st Semester	3 rd Semester	5 th Semester	7 th Semester
*/***** Gross Human Anatomy +College Algebra or higher General Chemistry General Physics II	Ethics Organic Chemistry I **Animal Nutrition Research (2 hours)	*Cell Biology *Genetics *Biochemistry Research (2 hours)	Begin Program
2nd Semester General Chemistry II Microbiology ****General Physics II	4th Semester Organic Chemistry II *Human Physiology Research (2 hours) Professional School Prep (1 hour) DAT, GRE, MCAT, OAT, PCAT	6th Semester *Immunology ***Statistics *Medical Microbiology or *General Virology Research (1 hour)	

* Must take at least one upper division science course beyond the 8 hours of introductory biology for medical school, two additional upper division sciences (total 16 hours of life sciences) for dental school.

** Pre-veterinary students must have animal nutrition which is offered at Oklahoma State University.

*** Statistics required for pre-optometry students, but recommended for other health programs.

**** May not be required for your health professional program, check prerequisite worksheet.

+ Online course at NSU.

Option 3: Post baccalaureate Premedical Certificate Program – General Business Program Core

1 st Semester	3 rd Semester	5 th Semester	7 th Semester
*/***** Gross Human Anatomy General Physics +College Algebra or higher General Chemistry I	*Cell Biology Ethics Organic Chemistry I **Animal Science Business Law I	*Biochemistry *Genetics	Begin Program
2nd Semester General chemistry II Microbiology ****General Physic II Intro. Financial Accounting	4th Semester Organic Chemistry II Professional School Preparation (1 hour) *Human Physiology Microeconomics DAT, GRE, MCAT, OAT, PCAT	6th Semester Principles of Marketing Information Systems ***Statistics Principles of Management	

* Must take at least one upper division science course beyond the 8 hours of introductory biology for medical school, two additional upper division sciences (total 16 hours of life sciences) for dental school.

** Pre-veterinary students must have animal nutrition which is offered at Oklahoma State University.

*** Statistics required for pre-optometry students, but recommended for other health programs.

**** May not be required for your health professional program, check prerequisite worksheet.

+ Online course at NSU.