POSTBACCALAUREATE PROGRAM (PBP)

Program Director: Sade Kosoko-Lasaki, M.D., M.S.P.H., M.B.A.
Program Office: Hixson-Lied Science Building G13

Certificate Program: Pre-Dental Postbaccalaureate Pre-Professional Studies

Program and Objectives
Creighton University's Postbaccalaureate Program is designed to aid disadvantaged students in their preparation and admission to dental school. The Program is comprised of three parts. The first is an 8-week Summer Diagnostic Session in which students are involved in academic pretesting and curricular review sessions. Next, in the Academic Year Program, students participate in intensive coursework in the sciences, mathematics, and English. Finally in the Prematriculation Summer Session, students attend dental school preview courses. Throughout the Program, students are provided academic and psychosocial support, clinical experiences, and mentoring in order to assure successful completion of the Program and admittance to the Creighton University School of Dentistry, another dental school, or an other health sciences program.

Prerequisites for Admission
Prior to admission to the Postbaccalaureate Program, each applicant must have fulfilled all pre-dental science requirements and have completed an undergraduate degree or higher from a regionally accredited United States college or university. Applicants must have earned a baccalaureate degree and must not have been previously accepted to a dental school. However, applicants must have been previously denied admission to dental school. An eligible applicant must be a U. S. citizen, non-citizen national, or foreign national who possesses a visa permitting permanent residence in the United States.

Goal
The goal of the Postbaccalaureate Program is to strengthen the academic and test-taking skills of disadvantaged students in order to enhance their competitiveness for application to dental school.

Required Courses (55 Credits)
Curriculum: Pre-Dental Postbaccalaureate Pre-Professional Studies

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<thead>
<tr>
<th>Diagnostic Summer Session</th>
<th>Credits</th>
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<tr>
<td>PBP 507 Pre-Dental Biology Preview</td>
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<td>PBP 508 Pre-Dental Chemistry Preview</td>
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<td>PBP 509 Pre-Dental Analytical Reading Preview</td>
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<td>PBP 510 Pre-Dental Writing Preview</td>
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<td>PBP 511 Pre-Dental Mathematics Preview</td>
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<td>PBP 512 Pre-Dental Fundamentals of Technical Drawing</td>
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<th>Fall Academic Session</th>
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<tr>
<td>PBP 513 Pre-Dental Academic Excellence</td>
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<td>PBP 521 Pre-Dental Integrated Cultural Awareness</td>
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| Term Credits | 9.5 |

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<th>Spring Academic Session</th>
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<tr>
<td>PBP 514 Pre-Dental Biology Review</td>
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<td>PBP 515 Pre-Dental Chemistry Review</td>
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<td>PBP 516 Pre-Dental Analytic Reading Part A</td>
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<td>PBP 518 Pre-Dental Writing Review</td>
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<td>PBP 519 Pre-Dental Mathematics Review</td>
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<td>PBP 520 Pre-Dental Understanding Perceptual Ability</td>
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<td>PBP 522 Pre-Dental Academic Excellence</td>
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<td>PBP 541 Pre-Dental Cultural Analytical Literature</td>
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<td>PBP 545 Pre-Dental Analytic Reading Part B</td>
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| Term Credits | 20 |

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<th>Prematriculation Session</th>
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<tr>
<td>PBP 531 Pre-Dental Histology and Embryology</td>
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<td>PBP 532 Pre-Dental Gross Anatomy Part I</td>
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<td>PBP 542 Pre-Dental Gross Anatomy Part 2</td>
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<tr>
<td>PBP 533 Pre-Dental Biochemistry-Radiology</td>
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<td>PBP 535 Pre-Dental Dental Anatomy</td>
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<td>PBP 536 Pre-Dental Dental Materials</td>
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Courses

PBP 400. Pre-Medical Biology Preview. 1 credit.
The main objectives of the biology course are to enhance understanding of biological concepts applicable to medicine, and to develop critical thinking and problem-solving skills required for biological science and medicine, including the ability to acquire and analyze information from various sources. Biological science emphasized includes anatomy, behavioral biology, cell biology, developmental biology, genetics, molecular biology, and physiology.

PBP 401. Pre-Medical Chemistry Preview. 1 credit.
Topics covered include: math concepts used in chemistry, introduction to the periodic table, atomic structure, chemical nomenclature, stoichiometry, ionic reactions in water solutions, electron configurations, periodic trends of the elements, ionic and covalent compounds.

PBP 402. Pre-Medical Analytical Reading Preview. 1 credit.
This class will assess the students’ ability to read actively and critically. It will include an overview of the fundamentals of reading and various reading skills. Time will be spent developing the ability to reason from reading and to analyze written material. It will demonstrate the importance of reading in life.

PBP 403. Pre-Medical Writing Preview. 1 credit.
This course is a review of standard rhetorical modes, syntax, grammar, and usage, as well as an introduction to the MCAT essay structure.

PBP 404. Pre-Medical Mathematics Preview. 1 credit.
This review covers pre-algebra, college algebra, plane geometry, trigonometry, analytic geometry, and introductory calculus. There are three aims for the students in this course: to perfect the math skills necessary to manipulate formulas for an MCAT exam, to gain an understanding of general mathematical concepts behind the formulas and models in the physical sciences, to gain an understanding of general mathematical concepts behind the formulas and models of medical research. Individuals in the course will have weaknesses in varied areas, so that, the rate of coverage of topics will vary according to the needs of the students in the course.

PBP 405. Pre-Medical Physics Preview. 1 credit.
Lecture. Topics include: Language of Motion, Newton’s laws of motion, Resistance, Conservation of motion, and work-energy. Testing is done in a MCAT format to make students familiar with MCAT tests and concepts needed.

PBP 406. Pre-Medical Biology Review. 3 credits.
The main objectives of the biology course are to enhance understanding of biological concepts applicable to medicine, and to develop critical thinking and problem-solving skills required for biological science and medicine, including the ability to acquire and analyze information from various sources. Biological science emphasized includes anatomy, behavioral biology, cell biology, developmental biology, genetics, molecular biology, and physiology.

PBP 407. Pre-Medical Chemistry Review. 3 credits.
A continuation of the summer chemistry program. Concepts and theories covered include the gas laws, intermolecular attractive forces, properties of solids and liquids, chemical thermodynamics, colligative properties of solutions, kinetics, chemical equilibrium, acid and base theory, solubility, oxidation and reduction reactions, and coordination theory. The summer and fall courses review the first year of college chemistry.

PBP 408. Pre-Medical Analytic Reading Review Part A. 1 credit.
This class will assess the students’ ability to read actively and critically. It will include an overview of the fundamentals of reading and various reading skills. Time will be spent developing the ability to reason from reading and to analyze written material. It will demonstrate the importance of reading in life.

PBP 409. Pre-Medical Writing Review. 1 credit.
This course focuses on issues of timed writing and MCAT essay practice, as well as readings from fiction and nonfiction sources for style and structure.

PBP 410. Pre-Medical Mathematics Review. 3 credits.
This review covers pre-algebra, college algebra, plane geometry, trigonometry, analytic geometry, and introductory calculus. There are three aims for the students in this course: to perfect the math skills necessary to manipulate formulas for an MCAT exam, to gain an understanding of general mathematical concepts behind the formulas and models in the physical sciences, to gain an understanding of general mathematical concepts behind the formulas and models of medical research. Individuals in the course will have weaknesses in varied areas, so that, the rate of coverage of topics will vary according to the needs of the students in the course.

PBP 411. Pre-Medical Physics Review. 3 credits.
Lecture. Topics include: Gravity, Circular Motion, Torques, Solids, Fluids and Sound-Waves. Testing is done in a MCAT format to make students familiar with MCAT tests and concepts needed.

PBP 412. Pre-Medical Biology. 3 credits.
The main objectives of the biology course are to enhance understanding of biological concepts applicable to medicine, and to develop critical thinking and problem-solving skills required for biological science and medicine, including the ability to acquire and analyze information from various sources. Biological science emphasized includes anatomy, behavioral biology, cell biology, developmental biology, genetics, molecular biology, and physiology.

PBP 413. Pre-Medical Chemistry. 4 credits.
Semester reviews organic chemistry. Review of the structure and properties of organic compounds such as alkenes, aromatic compounds, alkynes, alcohols, alkyl halides, and the carbonyl compounds. Reaction mechanisms, organic synthesis and structural analysis by spectroscopy are emphasized.

PBP 414. Pre-Medical Analytical Reading. 1 credit.
This class will assess the students’ ability to read actively and critically. It will include an overview of the fundamentals of reading and various reading skills. Time will be spent developing the ability to reason from reading and to analyze written material. It will demonstrate the importance of reading in life.

PBP 415. Pre-Medical Writing. 1 credit.
This course focuses on intensive MCAT exam practice while continuing the readings and analysis from the fall.
PBP 416. Pre-Medical Mathematics. 3 credits.
This review covers pre-algebra, college algebra, plane geometry, trigonometry, analytic geometry, and introductory calculus. There are three aims for the students in this course: to perfect the math skills necessary to manipulate formulas for an MCAT exam, to gain an understanding of general mathematical concepts behind the formulas and models in the physical sciences, to gain an understanding of general mathematical concepts behind the formulas and models of medical research. Individuals in the course will have weaknesses in varied areas, so that, the rate of coverage of topics will vary according to the needs of the students in the course.

PBP 417. Pre-Medical Physics. 3 credits.
Lecture. Topics include: Electrodynamics, Circuits and Atomic-Nuclear Physics Testing is done in a MCAT format to make students familiar with MCAT tests and concepts needed.

PBP 418. Pre-Medical Integrated Cultural Awareness. 1.5 credit.
This course is designed to engage students in the discussion of cultural differences and issues of identity while honing their reading and reading critical skills. Students will discuss class, cultural clashes, and themes of dislocation and alienation. They will explore the meaning of physical and cognitive outsiderness and learn to read critically.

PBP 419. Pre-Medical Academic Excellence. 1 credit.
This course is designed to assist the Post-Bac program students with the refinement of academic skills in preparation for maximum academic performance. This goal encompasses the academic work in the year long program, in increased performance on the MCAT and in readiness for the academic rigors of medical school. Individual assessment is an intricate part of the course. Students use the information to evaluate their current strategies to determine what areas need altered or additional techniques. Other components of the course include critical thinking skills, communication approaches, success collaborative learning, time management issues and stress reduction.

PBP 420. Pre-Medical Academic Excellence. 1 credit.
This course is designed to assist the Post-Bac program students with the refinement of academic skills in preparation for maximum academic performance. This goal encompasses the academic work in the year long program, in increased performance on the MCAT and in readiness for the academic rigors of medical school. Individual assessment is an intricate part of the course. Students use the information to evaluate their current strategies to determine what areas need altered or additional techniques. Other components of the course include critical thinking skills, communication approaches, success collaborative learning, time management issues and stress reduction.

PBP 421. Pre-Medical Academic Excellence. 1 credit.
This course is designed to assist the Post-Bac program students with the refinement of academic skills in preparation for maximum academic performance. This goal encompasses the academic work in the year long program, in increased performance on the MCAT and in readiness for the academic rigors of medical school. Individual assessment is an intricate part of the course. Students use the information to evaluate their current strategies to determine what areas need altered or additional techniques. Other components of the course include critical thinking skills, communication approaches, success collaborative learning, time management issues and stress reduction.

PBP 422. Pre-Medical Academic Excellence. 1 credit.
This course is designed to assist the Post-Bac program students with the refinement of academic skills in preparation for maximum academic performance. This goal encompasses the academic work in the year long program, in increased performance on the MCAT and in readiness for the academic rigors of medical school. Individual assessment is an intricate part of the course. Students use the information to evaluate their current strategies to determine what areas need altered or additional techniques. Other components of the course include critical thinking skills, communication approaches, success collaborative learning, time management issues and stress reduction.

PBP 423. Pre-Medical Biomedical Science. 3 credits.

PBP 424. Pre-Medical Analytic Reading Review Part B. 2 credits.
This class will assess the students’ ability to read actively and critically. It will include an overview of the fundamentals of reading and various reading skills. Time will be spent developing the ability to reason from reading and to analyze written material. It will demonstrate the importance of reading in life.

PBP 425. Pre-Medical Behavioral Science-Introduction to Psychology. 1 credit.
This course is an overview of basic psychological principals.

PBP 427. Pre-Medical Cultural Connections. 1 credit.
This course explores culture through the arts.

PBP 428. Pre-Medical Cultural Analytical Literature. 2 credits.
This course is an overview of cultural competency through essay and literary text.

PBP 430. Pre-Medical Behavioral Science-Introduction to Sociology. 1.5 credit.
This course is an overview of basic sociological principals.

PBP 434. Pre-Medical Analytical Reading. 1 credit.
Course is a continuation of Fall section and incorporates practice with MCAT verbal passages which include discussion of reasoning used to obtain answers, understanding the varying forms of questions and skills used with multiple choice questions.

PBP 436. Pre-Medical Behavioral Science I. 2 credits.

PBP 446. Pre-Medical Behavioral Science II. 1.5 credit.

PBP 501. Pre-Medical Molecular and Cell Biology. 2 credits.

PBP 502. Pre-Medical Anatomy. 2 credits.

PBP 503. Pre-Medical Principles of Microbiology. 1 credit.

PBP 504. Pre-Medical Host Defense. 1 credit.

PBP 505. Pre-Medical Pharmacology. 1 credit.

PBP 506. Pre-Medical Neurosciences. 1 credit.

PBP 507. Pre-Dental Biology Preview. 1 credit.

PBP 508. Pre-Dental Chemistry Preview. 1 credit.

PBP 509. Pre-Dental Analytical Reading Preview. 1 credit.
Extensive review of vocabulary, including a review of both technical and general comprehension. Efficient reading techniques, such as previewing science materials, and analyzing for comprehension.

PBP 510. Pre-Dental Writing Preview. 1 credit.

PBP 511. Pre-Dental Mathematics Preview. 1 credit.
Decimal fractions, measurements and scientific notation, common fractions, percentages, essentials of algebra, ratio and proportion, linear equations, exponential and radicals, logarithms, and quadratic equations and square roots.
PBP 512. Pre-Dental Fundamentals of Technical Drawing. 2 credits.
The Perceptual Ability Course is designed to emphasize the acquisition of visual perception and spatial visualization skills, especially the ability to interpret 2-D representation of a 3-D object. It includes introduction to engineering drawing, 3-D visualization, and manipulation of figures, angles, discrimination, form development, cube orthographic projections, apertures, and paper folding. Great emphasis is placed on preparing students for the Perceptual Ability Test of DAT covering the categories of keyholes, top-front-end, angle ranking, hole punching, cube counting, and pattern folding.

PBP 513. Pre-Dental Academic Excellence. 1 credit.
PBP 514. Pre-Dental Biology Review. 3 credits.
PBP 515. Pre-Dental Chemistry Review. 3 credits.
PBP 516. Pre-Dental Analytic Reading Part A. 1 credit.
PBP 518. Pre-Dental Writing Review. 1 credit.
PBP 519. Pre-Dental Mathematics Review. 3 credits.
PBP 520. Pre-Dental Understanding Perceptual Ability. 4 credits.
PBP 521. Pre-Dental Integrated Cultural Awareness. 1.5 credit.
PBP 522. Pre-Dental Academic Excellence. 1 credit.
PBP 523. Pre-Dental Biology. 3 credits.
PBP 524. Pre-Dental Chemistry. 4 credits.
PBP 525. Pre-Dental Analytical Reading. 1 credit.
PBP 526. Pre-Dental Preceptual Ability. 3 credits.
PBP 527. Pre-Dental Writing. 1 credit.
PBP 528. Pre-Dental Mathematics. 3 credits.
PBP 529. Cultural Awareness Literature. 1 credit.
PBP 530. Pre-Dental Academic Excellence. 1 credit.
PBP 531. Pre-Dental Histology and Embryology. 1 credit.
PBP 532. Pre-Dental Gross Anatomy Part I. 1 credit.
PBP 533. Pre-Dental Biochemistry-Radiology. 1 credit.
PBP 534. Physiology. 1 credit.
PBP 535. Pre-Dental Dental Anatomy. 1 credit.
PBP 536. Pre-Dental Dental Materials. 1 credit.
PBP 537. Pre-Dental Academic Excellence. 1 credit.
PBP 538. Pre-Pharmacy Biology. 1 credit.
PBP 539. Pre-Pharmacy Chemistry. 1 credit.
PBP 540. Pre-Pharmacy Analytical Reading. 1 credit.
PBP 541. Pre-Dental Cultural Analytical Literature. 2 credits.
Course is an overview of cultural competency through essay and literary text.
PBP 542. Pre-Dental Gross Anatomy Part 2. 1 credit.
PBP 543. Pre-Pharmacy Academic Excellence. 1 credit.
PBP 544. Pre-Dental Biomedical Science. 3 credits.
PBP 545. Pre-Dental Analytic Reading Part B. 2 credits.
Course promotes critical and active reading. Will work with main idea, vocabulary development, recognition of the author’s purpose, developing an understanding of tone, bias and persuasive elements, and discovering inferences.