

Pre-Professional Studies

Although many pre-professionals are science majors in the biological and physical sciences because of interest, a science major is not required. Students in any major may combine the minimum prerequisites (one year of biology, inorganic (general) chemistry, organic chemistry, physics and math through calculus) in the curriculum. However, students requesting a Pre-Professional Committee recommendation must adhere to the Major Requirements of each of the following pre-professional concentrations. Students in a pre-professional concentration should contact the Chair of the Biology Department, who is a member of the National Association of Advisors for the Health Professions. The Chair will act as a coadvisor to assist advisors from other disciplines and oversee coordinating the advising of students seeking admission to professional schools. Pre-professionals must have experienced some form of practical knowledge in their prospective professions before the second semester of their Junior year and prepare for the entrance exam required of all professional school applicants. Graduates of the Saint Francis University Pre-Professional studies program have successfully completed their graduate education in a wide range of professional concentrations within the biomedical sciences.

BACHELOR OF SCIENCE IN BIOLOGY PRE-PROFESSIONAL CONCENTRATION

Chair: Dr. Wayne Takacs.

(Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Podiatry, Pre-Veterinary)

MAJOR REQUIREMENTS

Biology 111, 131, 211, 212, 231, 406, 301, 331, and 401 taken in the same semester, 302 and 405 taken in the same semester, 402, and 431; one additional course from the following: Biology 112, 203, 208, 398-399; or any 400- or 500-level Biology course. Mathematics 121-122, Chemistry 101, 102, 201, 202; Physics 104-105 or 121-122.

Pre-medical students are encouraged to take physical chemistry and participate in an undergraduate research project.

BACHELOR OF SCIENCE IN CHEMISTRY PRE-PROFESSIONAL CONCENTRATION

(Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Podiatry, Pre-Veterinary)

MAJOR REQUIREMENTS

Chemistry 101, 102, 192, 201, 202, 251, 292, 301, 302, 303, 304, 392, 404, 405, 492; three credits from the following: Chemistry 205, 398/399, 401, 410-415, 499 and 501; Biology 111 and two 200 or above Biology courses selected with approval of the Pre-professional coordinator; Physics 121, 122; Mathematics 121, 122, and 221 or 306. Pre-medical students are encouraged to participate in an undergraduate research project.

BACHELOR OF SCIENCE IN ANY OTHER MAJOR PRE-PROFESSIONAL CONCENTRATION

Chair: See Major

(Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Podiatry, Pre-Veterinary)

MAJOR REQUIREMENTS

See Major requirements.

Additional requirements if not included in the major: Biology 111, Biology 405, and three 200-level or above Biology courses selected with approval of the Pre-professional coordinator, Chemistry 101, 102, 201, 202; Physics 104-105 or 121-122; and Mathematics 121-122.

Pre-medical students are encouraged to participate in an undergraduate research project in the science area.

BACHELOR OF SCIENCE "3+4"/"4+4" EARLY ACCEPTANCE PROGRAM LAKE ERIE COLLEGE OF OSTEOPATHIC MEDICINE

Under a joint agreement between the Lake Erie University of Osteopathic Medicine (LECOM) and SFU, undergraduate students are enrolled jointly by SFU and LECOM. The program is comprised of two phases: phase I consists of the first three or four years of undergraduate education at Saint Francis; Phase II consists of the remaining four years of medical school education at LECOM. Saint Francis University will confer the Bachelor of Science degree to students enrolled in the "3+4" track upon successful completion of the first year of LECOM's academic curriculum.

Students will be admitted to the SFU Phase (Phase I) of the program based upon the following criteria:

SAT Scores ≥ 1170 (re-centered) or ACT score 26

High School GPA 3.5 on a scale of 4.0

Potential Additional evidence of scholarly and professional potential and desire to become a primary care physician.

The SAT scores (1170) and high school GPA (3.5) serve as targets for applicant selection for admission to the program; other parameters, such as personal traits and desire to become an osteopathic physician, will also be considered for each applicant.

SFU representatives will interview applicants to the Program and submit acceptable applications for review to LECOM with a recommendation for provisional acceptance. LECOM will interview students within the first two years of being properly enrolled in the program. Therefore, acceptance to Phase I of the Program will be determined jointly by SFU and LECOM.

Students who are interested in pursuing the pre-professional studies program in Osteopathic Medicine should contact Dr. Wayne Takacs, program coordinator and chair of the Biology Department.

**BACHELOR OF SCIENCE
 “3+4” ACCELERATED PROGRAM IN OPTOMETRY
 PENNSYLVANIA COLLEGE OF OPTOMETRY**

Under a joint agreement between the Pennsylvania College of Optometry (PCO) and SFU, undergraduate students who have successfully completed specific core course requirements at SFU may continue their education in medicine at PCO in this program of study. The program is comprised of two phases: phase I consists of the first three years of undergraduate education at Saint Francis; Phase II consists of the remaining four years of optometry school education at PCO. Saint Francis University will confer the Bachelor of Science degree to students upon successful completion of the first year of PCO academic curriculum.

Students will be admitted to the SFU Phase (Phase I) of the program based upon the following criteria:

SAT Scores	1150 (re-centered)
High School GPA	3.4 on a scale of 4.0
Potential	Additional evidence of scholarly and professional potential and desire to become a doctor of optometry.

The SAT scores (1150) and high school GPA (3.4) serve as targets for applicant selection for admission to the program; other parameters, such as personal traits and desire to become an optometrist, will also be considered for each applicant.

SFU representatives will interview applicants to the Program and submit acceptable applications for review to PCO with a recommendation for provisional acceptance.

Students who are interested in pursuing the pre-professional studies program in optometry should contact Dr. Wayne Takacs, program coordinator and chair of the Biology Department.

**BACHELOR OF SCIENCE
“3+4” ACCELERATED PROGRAM LEADING TO THE
BACCALAUREATE AND DOCTOR OF DENTAL MEDICINE DEGREES
BACKGROUND**

Under a joint agreement between Temple University School of Dentistry and Saint Francis University, select undergraduate students who have successfully completed specific core course requirements at SFC may continue their education in dentistry at Temple University in this program of study. This accelerated academic program is referred to as *The “3+4” Accelerated Program Leading to the Baccalaureate and Doctor of Dental Medicine Degrees* (or Program). The Program is comprised of two phases: phase I consists of the first three years of undergraduate education at Saint Francis; Phase II consists of the remaining four years of dental school education at Temple University. Saint Francis University will confer the Bachelor of Science (B.S.) degree to students who have successfully completed the first year of Temple University School of Dentistry’s academic curriculum.

SELECTION OF STUDENTS FOR THE PROGRAM

For admission to the Program, students must complete the first 3-year phase of education at SFU. Following the successful completion of the ascribed undergraduate phase of training, students will continue with the second phase of their education under the auspices of Temple University School of Dentistry and its associated clinical training sites.

Students will be admitted to the SFU Phase (Phase I) of the Program based upon the following criteria:

SAT Scores	1150 (re-centered)
Grade Point Average (High School GPA)	3.4
Potential	Additional evidence of scholarly and professional potential and desire to practice dentistry.

The SAT scores (1150) and high school GPA (3.4) serve as targets for applicant selection for admission to the Program; other parameters, such as personal traits and desire to practice dentistry will also be considered for each applicant.

SFC representatives will interview applicants to the Program and submit acceptable Phase I applications to Temple University School of Dentistry for review. Temple School of Dentistry will acknowledge receipt of Phase I applications within thirty (30) days.

**“2+3/2+4” ACCELERATED PROGRAM IN PHARMACY
LAKE ERIE COLLEGE OF OSTEOPATHIC MEDICINE**

This affiliated program will be referred to as *The “2+3/2+4” (Pharm.D.) Accelerated Program in Pharmacy (Program)*. The program will be an early- entry pre-pharmacy program that will give students the opportunity to complete their pharmacy education in two phases: Phase I consists of the first two years of undergraduate education at Saint Francis; and Phase II consists of the remaining three years of pharmacy education at LECOM School of Pharmacy Erie campus or four years at the Branderton, FL campus. The number of positions reserved for Saint Francis students will be determined by mutual agreement between Saint Francis and the LECOM School of Pharmacy

Students will be admitted to the SFU Phase (Phase I) of the program based upon the following criteria:

SAT Scores (or ACT scores)	Suggested 1170 or ACT score of 26
High School GPA	3.5 on a scale of 4.0
Recommendation	Two letters of recommendation
Potential	Evidence of scholarly activities and desire to become a pharmacist.

The LECOM School of Pharmacy will accept Saint Francis students into the professional pharmacy curriculum who meet the criteria listed below:

- Complete the pre – pharmacy curriculum in Phase I of the 2 + 3 Accelerated Pharmacy Program, as described (or amended).
- Earn a minimum GPA of 3.4 in Phase I of the program. No course will be accepted for transfer with a grade lower than “C”.
- Earn a GPA of 3.4 or higher for science and mathematics courses.
- Must maintain full – time status while at Saint Francis and complete the program in the specified time frame.
- Submit two letters of recommendation. One of these letters MUST be from the student’s academic advisor at Saint Francis. The letter will address the personal growth of the student during Phase I of the program, as well as the student’s maturity, responsibility, and desire to become a pharmacist.
- Demonstrate leadership potential and commitment to the pharmacy profession.
- Submit a completed primary application for admission to PharmCAS and a secondary application to the LECOM School of Pharmacy.

**“3+3/3+4” (B.S./PHARM.D.) PROGRAM IN PHARMACY
LAKE ERIE COLLEGE OF OSTEOPATHIC MEDICINE**

This affiliated program will be referred to as *The “3+3/ 3+4” (B.S./ Pharm.D.) Program in Pharmacy (Program)*. The Program will be an early – entry pre-pharmacy program that will give students the opportunity to complete their pharmacy education in two phases: Phase I consists of the first three years of undergraduate education at Saint Francis; Phase II consists of the remaining three years of pharmacy education at LECOM’s School of Pharmacy, Erie Campus or four years at the Branderton, FL Campus. The number of positions reserved for Saint Francis students will be determined by mutual agreement between Saint Francis and the LECOM School of Pharmacy.

Students will be admitted to the SFU Phase (Phase I) of the program based upon the following criteria:

SAT Scores (or ACT scores)	Suggested 1170 or ACT score of 26
High School GPA	3.5 on a scale of 4.0
Recommendation	Two letters of recommendation
Potential	Evidence of scholarly activities and desire to become a pharmacist.

The LECOM School of Pharmacy will accept Saint Francis students into the professional pharmacy curriculum who meet the criteria listed below:

- Complete the pre-pharmacy curriculum in Phase I of the “3+3/ 3+4” B.S./Pharm.D. Pharmacy Program, as described (or amended).
- Earn a minimum GPA of 3.4 in Phase I of the program. No course will be accepted for transfer with a grade lower than “C”.
- Earn a GPA of 3.4 or higher for science and mathematics courses.
- Must maintain full – time status while at Saint Francis and complete the program in the specified time frame.
- Submit two letters of recommendation. One of these letters MUST be from the student’s academic advisor at Saint Francis. The letter will address the personal growth of the student during Phase I of the program, as well as the student’s maturity, responsibility, and desire to become a pharmacist.
- Demonstrate leadership potential and commitment to the pharmacy profession.
- Submit a completed primary application for admission to PharmCAS and a secondary application to the LECOM School of Pharmacy.
- The Bachelor of Science (B.S.) degree will be conferred on “3+3/3+4” students after successful completion of all Saint Francis requirements and year one of Phase II of the Program.

PODIATRIC SCIENCE

Podiatrists are doctors restricted in their practice to care and treatment of the feet and lower extremities. By agreement with the Pennsylvania University of Podiatric Medicine, qualified students may shorten their normal eight-year program in podiatry to seven years by admission to the Pennsylvania University of Podiatric Medicine after only three years at Saint Francis University. Students majoring in Podiatric Science receive their Bachelor of Science degree from Saint Francis University after successful completion of their first year at the Pennsylvania University of Podiatric Medicine.

**BACHELOR OF SCIENCE IN BIOLOGY
PODIATRIC SCIENCE CONCENTRATION
MAJOR REQUIREMENTS**

Biology 111, 131, 211, 212, 231, 301, 302, 331, 406, and 431; Chemistry 101, 102, 201, 202; Mathematics 121-122 or 111-112 with approval of the chair; Physics 104-105 or 121-122; and successful completion of first year at Pennsylvania College of Podiatric Medicine.