

Dental Affiliate Program

In conjunction with the University of Pennsylvania School of Dental Medicine, Villanova University offers students considering a career in Dentistry the possibility of completing both the Bachelor of Science and the D.M.D. degree in seven years through a fast-track affiliation program.

Students spend their first three years on Villanova's campus where they will study along with other Villanova students, majoring in either Biology , Biochemistry, or Comprehensive Science (BSC). After having completed all the Liberal Arts/Humanities core curriculum courses, all of the pre-requisites for dental school admission, and most of the major's curriculum requirements, the students will move to the University of Pennsylvania School of Dental Medicine campus in the fourth year where the first-year professional school courses will also be given credit at Villanova for completion of the Bachelor's degree.

Students who matriculate into the program are also required to meet the following conditions during the Villanova portion of their program:

1. Students must maintain a minimum cumulative overall GPA of 3.5 and a minimum cumulative GPA of 3.5 in the sciences (Biology, Chemistry, Physics, and Math).
2. Students must receive a grade of C or better in all dental school pre-requisite courses (a C- is less than a C).
3. Students must take the Dental Admission Test (DAT) and achieve scores of 20 or higher on each section.

Failure to meet these minimum requirements may result in release from the program.

Biology Major

Combined- BS/DMD degree

Biology majors will be required to complete all College of Arts and Sciences core courses, all pre-requisites for dental school admission, as well as a minimum of 19 Biology course credits at Villanova prior to transition to professional school at the end of the third year. In addition to General Biology I and II, students must complete Genetics and at least two upper level courses (3000 level or above), one of which must include a lab, to meet the 19 Biology course credit minimum.

Freshman year

Fall		Spring	
ACS 1000: Humanities Seminar	3	ACS 1001: Humanities Seminar	3
Intermediate Language I	3	Intermediate Language II	3
MAT 1312: Biocalculus	3	MAT 1313: Statistics	3
CHM 1151: General Chemistry I	4	CHM 1152: General Chemistry II	4
CHM 1103: General Chemistry I Lab	1	CHM 1104: General Chemistry II Lab	1
BIO 2105: General Biology I	4	BIO 2106: General Biology II	4
		18	18

Sophomore Year

Fall		Spring	
BIO 3351: Genetics	4	Advanced Biology elective**	3 or 4
CHM 2211: Organic Chemistry I	3	CHM 2212: Organic Chemistry II	3
CHM 2201: Organic Chem I Lab	1	CHM 2201: Organic Chem II Lab	1
ENG: Sophomore Writing Seminar	3	ETH 2050: Ethics	3
Humanities or Social Science*	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Humanities or Social Science*	3
		17	16 or 17

Junior Year

Fall		Spring	
CHM 4611: Survey of Biochemistry [†]	3	Advanced Biology elective ^{**}	4
PHY 1100: General Physics I	3	PHY 1102: General Physics II	3
PHY 1101: General Physics I Lab	1	PHY 1103: General Physics II Lab	1
Humanities or Social Science*	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Free elective ^{***}	3
Free elective ^{***}	3	Free elective ^{***}	3
	16		17

* Must satisfy the prescribed Core Requirements of the College of Liberal Arts & Sciences.

- Theology 1000 plus advanced course (2000 or higher)
- Philosophy 1000
- History Course
- Fine Arts elective
- Social Sciences - two courses

† One Biochemistry course is required for U. Penn Dental School admission. This course does not count toward the mandatory 19 Biology credits that must be completed at Villanova prior to transition to U. Penn. It is a “free elective” and does count toward the overall degree.

** Biology electives may be filled by any course numbered 3000 or higher. It is recommended that students select upper level Biology courses that serve as strong preparation for the DAT and the dental school curriculum.

*** Free electives may be used to satisfy requirements for a minor or concentration.

AP or IB credit will affect the credit load. Villanova will grant AP credit for students who achieve a score of 4 or 5 on the AP exam. A list of exams can be found in the Liberal Arts & Sciences publication [Enchiridion](#). 4th year credits will be completed at University of Pennsylvania School of Dental Medicine and then transferred to Villanova to complete the requirements for an undergraduate degree from Villanova.

Comp. Sciences Major

Combined- BS/DMD degree

Comprehensive Science majors will be required to complete all College of Arts and Sciences core courses and all pre-requisites for dental school admission prior to transition to professional school at the end of the third year.

Freshman year

Fall		Spring	
ACS 1000: Humanities Seminar	3	ACS 1001: Humanities Seminar	3
Intermediate Language I	3	Intermediate Language II	3
MAT 1500: Calculus I	4	MAT 1505: Calculus II	4
CHM 1151: General Chemistry I	4	CHM 1152: General Chemistry II	4
CHM 1103: General Chemistry I Lab	1	CHM 1104: General Chemistry II Lab	1
BIO 2105: General Biology I	4	BIO 2106: General Biology II	4
19		19	

Sophomore year

Fall		Spring	
CHM 2211: Organic Chemistry I	3	CHM 2212: Organic Chemistry II	3
CHM 2201: Organic Chemistry I Lab	1	CHM 2202: Organic Chemistry II Lab	1
MAT 4310: Statistical Methods	3	Advanced science elective**	4
Advanced science elective**	3 or 4	ETH 2050: Ethics	3
ENG: Sophomore Writing Seminar	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Humanities or Social Science*	3
17 or 18		16	

Junior year

Fall		Spring	
CSC 1051: Algorithms & Data Structures	4	MAT elective***	3
PHY 1100 + 1101: General Physics I + Lab	4	PHY 1102 + 1103: General Physics II + Lab	4
CHM 4611: Survey of Biochemistry	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Free elective***	3
	17		16

* Must satisfy the prescribed Core Requirement of the College of Liberal Arts & Sciences

- Theology 1000 plus advanced course (2000 or higher)
- Philosophy 1000
- History course
- Fine Arts elective
- Social Sciences - two courses

** Advanced science electives may be filled by any science area course numbered 3000 or higher. It is recommended that students add at least one additional upper level Biology course as a science elective in preparation for the dental school curriculum.

*** one Mathematics course selected from the following: MAT 2500, MAT 2705, or CSC 1300

**** Free Elective course in any subject area; may be used to satisfy requirements for a minor or concentration.

AP or IB credit will affect the credit load and course sequencing. A list of exams can be found in the Liberal Arts & Sciences publication [Enchiridion](#). 4th year credits will be completed at University of Pennsylvania School of Dental Medicine and then transferred to Villanova to complete the requirements for an undergraduate degree from Villanova.

Biochemistry Major

Combined- BS/DMD degree

Biochemistry majors will be required to complete all College of Arts and Sciences core courses and all pre-requisites for dental school admission prior to transition to professional school at the end of the third year.

Freshman year

Fall		Spring	
ACS 1000: Humanities Seminar	3	ACS 1001: Humanities Seminar	3
Intermediate Language I	3	Intermediate Language II	3
MAT 1312: Biocalculus or MAT 1500: Calculus I	3 or 4	MAT 1313: Statistics	3
CHM 1151: General Chemistry I	4	CHM 1152: General Chemistry II	4
CHM 1103: General Chemistry I Lab	1	CHM 1104: General Chemistry II Lab	1
BIO 2105: General Biology I	4	BIO 2106: General Biology II	4
18 or 19		18	

Sophomore Year

Fall		Spring	
CHM 2211/2201: Organic Chem I + lab	4	CHM 2212/2202: Organic Chem II + lab	4
PHY 1100/1101: Gen Physics I + Lab or PHY 2410/2411: Mechanics	4	PHY 1102/1103: Gen Physics II + Lab or PHY 2412/2413: Elec. & Magnetism	4
BIO 3351: Genetics	4	ETH 2050: Ethics	3
ENG: Sophomore Writing Seminar	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Humanities or Social Science*	3
18		17	

Junior Year

Fall		Spring	
CHM 3514/3503: Bioanalytical Chem + lab	4	BIO 4505: Molecular Biology	4
CHM 3417: Biophysical Chemistry	3	CHM 4622: Biochemistry II	3
CHM 4621: Biochemistry I	3	CHM 4604: Biochem Tech. & Pract. II	1
CHM 4603: Biochem Tech & Prac I	1	CHM 4623: Biochemistry III	3
Humanities or Social Science*	3	Humanities or Social Science*	3
Humanities or Social Science*	3	Humanities or Social Science*	3
17		17	

* Must satisfy the prescribed Core Requirement of the College of Liberal Arts & Sciences

- Theology 1000 plus advanced course numbered 2000 or higher
- Philosophy 1000
- History course
- Fine Arts elective
- Social Sciences – two courses

AP or IB credit will affect the credit load and course sequencing. A list of exams can be found in the Liberal Arts & Sciences publication [Enchiridion](#). 4th year credits will be completed at University of Pennsylvania School of Dental Medicine and then transferred to Villanova to complete the requirements for an undergraduate degree from Villanova.