

# Career Options in the Health Care Field Pursued by Loyola Students

1. **Doctoral medical degree programs:** most students are Biology, BL/CH or Chemistry majors
  - a. Physician – Doctors come in two forms – Allopathic medicine (MD) and Osteopathic medicine (D.O)
  - b. Dentist (DDS)
  - c. Optometry (O.D.)
  - d. Podiatrist (DPM)
  - e. Veterinary Medicine (DVM)
  - f. Pharmacy (Pharm. D.)
  
2. **Doctoral Allied Health programs:** most students are interdisciplinary majors, either BL/Psch or BL/Soc
  - a. Physical Therapy (DPT)
  - b. Occupational Therapy (DOT)
  - c. [Speech Pathology and Audiology]
  
3. **Mid Level Health Care Practitioners:** most students are BL majors or interdisciplinary majors, either BL/Psch or BL/Soc, or social science majors
  - a. Nursing (BSN, MSN, nurse practitioner); also available as DNP
  - b. Physician Assistant (note: no “ ‘s”) or PA
  
4. **Public Health:** Master’s in Public Health (MPH) includes diverse areas of specializations each with own requirements

Refer students to Dr. Maiju Gardner, x2218

## Advising Information

Career	Chemistry	Biology	Physics	other	
Medicine	5 semesters (through biochemistry I) <b>Fall Semester: General Chemistry I + lab</b>	one year of Biology; micro recommended ; A and P for Pharm D programs Fall Semester: cell and molecular + lab	Intro or General Physics	one semester of math at the level of calculus or 200+ level statistics; psychology and sociology for MD degree	
Physical Therapist	not required	One year Biology	Intro or General Physics		
Occupational Therapist	not required	One year of Biology	not required		
Nursing	one year of Chemistry	Intro courses + A and P, micro, nutrition	not required	life cycle psychology; statistics	apply to accelerated BSN programs (13-18 mo) or BSN to MSN programs
PA	4-5 semesters (through organic chemistry or biochemistry I)	One year of Biology; micro recommended ; A and P	One year of Physics (some schools)	<b>250 – 500 (up to 2000) hours of hands-on patient contact (e.g., EMT)</b>	apply directly to masters programs, which take 2-3 years of study;
Public Health				Strong quantitative skills	

Profession of Interest	Pre-Requisite and Recommended Courses	Target GPA	Experience	Standardized test	Resource	Other Advice for All:
<b>Medicine</b> Doctor of Medicine (M.D.) Doctor of Osteopathic Medicine (D.O.) 4-year program 3-7 years of residency	2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of physics with lab (Intro or general ok) 1-2 semesters of biochemistry (for the MCAT)  Highly recommended: 1-2 semesters of mathematics, esp. calculus and/or (bio)statistics at 200 or higher, psychology (esp. for the MCAT), social sciences (MCAT).  Recommend: additional upper level biology courses	> 3.65	Volunteering, shadowing, leadership, internships/research Note: 25 % of matriculants into medical schools entered osteopathic medical schools (2014)	MCAT  Note: new MCAT (2015) sections: 1) Biological and biochemical foundations of living systems 2) Chemical and physical foundations of living systems 3) Psychological (55%), social (35%), biological foundations (5%) of behavior 4) critical analysis and reasoning	<a href="http://www.aamc.org">www.aamc.org</a>  <a href="http://www.aacoms.org">www.aacoms.org</a>	TIP: Pre-req minimum is usually C or higher. Don't rush to re-take a deficiency grade. Fix other things first.
<b>Dentistry</b> Doctor of Dental Surgery/Medicine (D.D.S., D.M.D.) 4-year program 2 years residency for specialization	2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 1 semester of biochemistry with lab 2 semesters of physics with lab (Intro or general ok)  Common additional requirements: microbiology, anatomy and physiology, 1-2 semesters of mathematics, esp. (bio)statistics Recommended: additional upper level biology courses	>3.5	Volunteering, shadowing, leadership, internships/research	DAT Note: DAT sections 1) Biology 2) General Chemistry 3) Organic Chemistry 4) Perceptual ability 5) Quantitative reasoning	<a href="http://www.aadea.org">www.aadea.org</a>	TIP: Check the specific requirements of your interest schools
<b>Veterinary Medicine</b> Doctor of Veterinary Medicine (D.V.M.) 4-year program 1 year residency for specialization	2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of physics with lab (Intro or general ok) 1 semester of biochemistry  Common additional requirements: biochemistry, microbiology, 1-2 semesters mathematics, incl. esp. calculus and/or (bio)statistics, upper level biology courses	> 3.5	Shadowing and work with animals (over 400 hours suggested)	GRE Note: GRE sections 1) Analytical writing 2) Verbal reasoning 3) Quantitative reasoning	<a href="http://www.aavmc.org">www.aavmc.org</a>	TIP: The best resources to compare health professions: <a href="https://explorehealthcareers.org/">https://explorehealthcareers.org/</a>
<b>Physical Therapy</b> Doctor of Physical Therapy (D.P.T.) Note: No Master's Degree 3-year program	2 semesters of biology with lab 2 semesters of chemistry with lab 2 semesters of physics with lab (Intro or general ok) 2 semesters of anatomy and physiology with lab 1 semester of statistics (100 or 200 level) 1 semester of psychology or social sciences	> 3.5	> 150 hours shadowing & work with PT (documented)	GRE	<a href="http://www.apta.org">www.apta.org</a>	
<b>Nursing</b> Accelerated Bachelor's degree (B.S.N.) 13-16 month program Direct Entry Master's degree (M.S.N.) 2-3-year program Doctoral degree possible after Master's	2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of anatomy and physiology with lab 1 semester of microbiology with lab 1 semester of human nutrition 1 semester of psychology across life span 1 semester of statistics (100 or 200 level)	>3- 3.3	Volunteering, leadership, internships/research Note: Direct entry M.S.N. is competitive (> 8's in pre-requisites, >3.4 GPA)	TEAS GRE (most competitive programs) GRE (direct entry Master's)	<a href="http://www.aacn.nche.edu/">www.aacn.nche.edu/</a>	
<b>Physician Assistant</b> Master's degree (MPAS, MHS, MMSC) Note: No Doctoral Degree 2-3-year program	2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 1 semester of anatomy and physiology with lab 1 semester of microbiology with lab 1 semester of psychology Most common math pre-req: 1 semester of statistics	> 3.2	250 - 2000 hours of direct patient and/or healthcare experience	GRE	<a href="http://www.aapa.org">www.aapa.org</a>	
<b>Public Health (Master's entry)</b> Master of Public Health (M.P.H.)  1-or 2-year program Note: Direct entry doctorate very rare	Common requirements: 1 semester of biology 1 semester of chemistry 1 semester of statistics Common additional requirements : epidemiology, social sciences, additional mathematical sciences	> 3.0-3.3	Volunteering, research/internships Social sciences and education interest	GRE	<a href="http://www.aspph.org/">www.aspph.org/</a>	
<b>Pharmacy</b> Doctor of Pharmacy (Pharm.D.) 4-year program	2 semesters of biology with lab 2 semesters of general chemistry with lab 2 semesters of organic chemistry with lab 2 semesters of physics with lab 1 semester of calculus 1 semester of statistics 1 semester of microbiology with lab 2 semesters of anatomy and physiology with lab 1 semester of public speaking 1 semester of introductory psychology Common additional requirements: microeconomics	>3.0-3.3	Shadowing, leadership, work	PCAT Note PCAT sections 1) biology 2) chemistry 3) reading comprehension 4) quantitative ability 5) verbal ability	<a href="http://www.aacp.org">www.aacp.org</a>	