




[See course website for links](#)



Doctors



- **MD** (Doctor of Medicine - many specialties)
- **DMD/DDS** (Doctor Dental Medicine or Doctor Dental Surgery – many specialties)
- **DVM** (Doctor of Veterinary Medicine - many specialties)
 - All require 4 yrs of medical school, internship, and/or post-doctoral training and specialization, and possibly board certification.
 - Check out Wikipedia for specialties within each field.
- Average salary for doctors? Depends on specialty, board certification, and experience. ~\$90,000 to > \$350,000

“With great (financial) **POWER** comes great responsibility!”

Pay depends on specialty, board certification, and experience.



- **Projected increase in jobs by 2028 = 4%**
- **Doctoral degree and internship, residency, board certification**
- **Median pay for physicians in 2020 = \$208,000**
- **Subspecialties and board-certification can earn more than this per year**

Source: <https://www.bls.gov/ooh/healthcare/physicians-and-surgeons.htm>

Doctor of Dental Medicine (DDM) or Surgery (DDS)

Projected increase in jobs by 2029: 3%

Median pay in 2020: \$164,010 per year

Education/training: Dentists must be licensed in the state in which they work. Licensure requirements vary by state, although candidates usually must graduate from an accredited dental program and pass written and clinical exams.

Source: <https://www.bls.gov/ooh/healthcare/dentists.htm>

Dental Hygienist

Projected increase in 2020: 6%

Median pay in 2020: \$77,090

Education/training: Dental hygienists typically need an associate's degree in dental hygiene. Programs usually take 3 years to complete. All states require dental hygienists to be licensed; requirements vary by state..

Job: Dental hygienists examine patients for signs of oral diseases, such as gingivitis, and provide preventive care, including oral hygiene.

Source: <https://www.bls.gov/ooh/healthcare/dental-hygienists.htm>

Veterinarian (DVM)

Projected increase in 2020: 16%

Median pay in 2020: \$99,250



Education/training: Veterinarians must have a Doctor of Veterinary Medicine degree from an accredited veterinary college, as well as a state license

Non-private practice jobs:

> USDA, FDA – food inspector, CDC – track disease, Research, Teaching

Source: <https://www.bls.gov/ooh/healthcare/veterinarians.htm>

Physician Assistant (master's degree – 2 yrs)

Projected increase in 2020: 31%

Median pay in 2020: \$115,390. Physician assistants in emergency medicine, dermatology, and surgical subspecialties can earn \$100,000 to \$200,000 per year



Education/training: Physician assistants typically need a master's degree from an accredited educational program. All states require physician assistants to be licensed. Then practice medicine on a team under the supervision of physicians and surgeons. They are formally educated to examine patients, diagnose injuries and illnesses, provide treatment, and prescribe medication. A physician directly supervises PA's.

Source: <https://www.bls.gov/ooh/healthcare/physician-assistants.htm>

▪ **Based both on salary and job prospects:**

Money magazine: "fifth best job in America"

CNN Money: "number two best job in America"

Forbes: "number one Master's Degree for jobs."

Graduate School

M.S. (Master of Science - 2 or more yrs)

- Research (thesis degree)
- Teaching (non-thesis degree) – for teaching at high school
- **Wide range** of job opportunities
- Pay widely variable

AND / OR

Ph.D. (3-5 yrs)

–Post-Doctoral Employment

- Research
- Teaching (professor) – post secondary schools (colleges, universities)
- Administration
- Pay widely variable

Nurses

Increased demand for nurses:

- +39% - Offices of physicians
- +39% - Home health care services
- +34% - Outpatient care centers
- +22% - Hospitals, public and private
- +20% - Nursing care facilities



- **Certified Nursing Assistant (CNA)** – need OTJ training.
- **Licensed Practical nurse (LPN)** - graduate from an accredited LPN program. LPN programs generally include one year of coursework and practical application at a hospital, vocational technical school or community college.
- **Registered nurse (RN)** – 2 year associate's degree.
- **Bachelor of Science in Nursing (BSN)** – 4 year bachelor's degree.
- **Master of Science in Nursing** – must complete a BSN first.
- **Doctorate in Nursing** – Can go straight into doctoral program, or start from a BSN.

Many specialities!!

Nursing pay scales vary by specialty & experience:

(Source: <http://www.nursingcalling.com/top-10-highest-paying-nursing-jobs/>)

#1 Certified Registered Nurse Anesthetist - \$105K & \$130K annually

#2 Orthopedics - \$120 K

#3 Clinical Nurse Specialist (requires Masters) - \$104 K

#4 Nurse Researcher - \$75 and \$95 K

#5 Mental Health Nurse Practitioner - \$70 & \$90 K

#6 Certified Nurse Midwife - \$75K

#7 Nurse Practitioner - \$78 K

#8 Geriatrics - \$75 K

#9 Neonatal Nurse - \$75 K

#10 Pediatric Nurse - \$67 K

Nursing

You started as FMU Biology BS major & want to switch to nursing?

... You can do that! You might only need few extra courses.

.... Speak to nursing student coordinator: [Robyn Morgan](#)

Source: <https://www.fmarion.edu/healthsciences/nursing/prelicensurebsnprogram/>

General Education and Nursing Prerequisites for students without previous bachelors:

All numbers listed below are Francis Marion University course numbers. Course descriptions can be found in the FMU Catalog. Please reference the [Transfer Guide](#) to see if courses taken at South Carolina technical colleges transfer as needed courses.

- English 112
- English 200**
- Speech Communication 101
- Political Science 101 or 103
- Psychology 334 - Life Span Development
- Social Science Elective
- Literature
- History
- Art 101, Music 101, or Theater 101
- Humanity Elective
- Mathematics 111
- Mathematics 134 - Probability and Statistics
- Biology 105
- Chemistry 101
- Chemistry 102
- Biology 205 - Human Anatomy
- Biology 311 - Microbiology
- Biology 236 - Human Physiology

} Science
GPA of 2.6 or higher

**Class must be taken at FMU. This class is specific to Francis Marion and there are no English classes that will transfer in as English 200.

Allied Health Careers

- Physical /Occupational Therapist
- Medical technician
- Speech pathologist
- Pharmacist/technician
- Chiropractic/massage/occupational therapy
- Medical sonographer/cardiovascular technician
- Perfusionist/phlebotomist
- Dental assistant/hygienist
- EMT/Paramedic
- Medical transcription
- Dietetics/nutritionist
- Social work
 - Not the same requirements as a medical degree or a graduate degree.

Physical Therapist

Projected increase in 2020: 18%

Median pay in 2020: \$91,010

Education/training: In addition to a master's degree from an accredited physical therapy program, this profession requires a state license.

Job outlook: The growing elderly and disabled population will push demand for physical therapy, an industry that's constantly expanding its scope.

<https://www.bls.gov/ooh/healthcare/physical-therapists.htm>

Medical Technology

Medical Technology



Medical Technology (MT), also called Clinical Laboratory Science, is a paramedical field for which the student prepares in chemistry, microbiology, hematology and related disciplines. Well trained and certified Medical Technologists, or Clinical Laboratory Technicians, can enter careers in clinical laboratory work, academic research, public health, teaching and the pharmaceutical industry. The medical technologist not only contributes to the study, diagnosis and treatment of diseases but is of increasing importance in the evaluation of established technical procedures and in the use of new, increasingly complex instruments. At this time, job availability to qualified candidates is relatively good.

Requires a Bachelor's degree in Medical Technology, and some states require licensing to practice.

Medical Technology

Summary

Quick Facts: Clinical Laboratory Technologists and Technicians	
2020 Median Pay 	\$54,180 per year \$26.05 per hour
Typical Entry-Level Education 	Bachelor's degree
Work Experience in a Related Occupation 	None
On-the-job Training 	None
Number of Jobs, 2019 	337,600
Job Outlook, 2019-29 	7% (Faster than average)
Employment Change, 2019-29 	24,700



What Clinical Laboratory Technologists and Technicians Do

Clinical laboratory technologists and technicians collect samples and perform tests to analyze body fluids, tissue, and other substances.

<https://www.bls.gov/ooh/healthcare/medical-and-clinical-laboratory-technologists-and-technicians.htm>

Medical Technology



- **FMU Medical Technology Program**
http://departments.fmarion.edu/biology/Biology_Department/Degree_Medical_Technology.html
- 3+1 versus 4+1 options
- MT coordinator – Dr. Pryor & Dr. Turner

Do Your Own Searching!

National, State, and Government Agencies

- Department of Health & Human Services



National, State, and Government Agencies

- National Institutes of Health
- Centers for Disease Control



With a Ph.D. / MS

Field and/or Laboratory Research

Zoology, Botany, Forestry, Ecology,
Wildlife Management, Agriculture, etc

...



Ph.D.s / MS

Marine Biology

- Some colleges offer BS in marine biology
- scientist/researcher
- conservation
- consultant
- parks / zoos / aquariums
- wildlife management
- fisheries !!!
- etc

For info:

<http://swfsc.noaa.gov/textblock.aspx?id=54>





**Ph.D.s / MS / or
BSc in Animal
Science**

Animal Science

- Some colleges offer BS in animal science
- farmer
- industry / commercial
- inspector
- researcher
- consultant

Forensics & Pathology

Many different "entry levels"

- Associate's degree (2 yr)
- BS degree (4 yr)
- MS degree (2-3 yrs)
- MD degree (MUCH LONGER)



Forensics & Pathology

Associates degree in forensic technology (2 yr technical school)

- Forensic technology, Crime scene investigation, Evidence technology , & Homicide investigation

Bachelor's degrees:

- BS in forensics or BS in chemistry w/forensics specialty
- private, state or federal forensic laboratories, insurance companies or in the judicial system

MS in Forensics:

- 2-3 yrs graduate school
- Requires internship
- jobs in crime scene analysis, forensic science, criminal justice laboratories, medical examiners' offices, hospitals, universities, police departments and government agencies

Forensics Pathologist :

- 4 yrs medical school (MD)
- Residency in forensics (4-5 yrs)
- 1 yr fellowship
- Certification (pass The American Board of Pathology)