# MEDICAL FIELDS

Medicine, Dentistry, Podiatry, Optometry, Chiropracty, Pharmacy, and Veterinary Medicine

What can I do with these professional degrees?

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<th>EDUCATION INFORMATION</th>
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<td><strong>MEDICINE</strong></td>
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<tr>
<td>Some Areas of Specialization</td>
<td>Hospitals</td>
<td>Test Required: MCAT</td>
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<tr>
<td>Allergology</td>
<td>Clinics</td>
<td>Schooling Required: After earning an undergraduate degree, the Doctor of Medicine (M.D.) requires 4 years of medical school, followed by 3-8 years of internship and residency depending on specialization chosen.</td>
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<tr>
<td>Anesthesiology</td>
<td>Private or group practice</td>
<td>Some physicians pursue the Doctor of Osteopathic Medicine (D.O.) degree. D.O.s emphasize the body’s musculoskeletal system, preventive medicine, and holistic patient care and often work in family and general practices, although they may be found in many specialties.</td>
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<tr>
<td>Cardiology</td>
<td>Health networks</td>
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<td>Dermatology</td>
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<td>Emergency Medicine</td>
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<td>Family and General Practice</td>
<td>Mental health institutions</td>
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<tr>
<td>Gastroenterology</td>
<td>Federal, state, &amp; local health departments</td>
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<td>Internal Medicine</td>
<td>Government agencies</td>
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<td>Obstetrics &amp; Gynecology</td>
<td>Armed services</td>
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<td>Orthopedics</td>
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<td>Pathology</td>
<td>Colleges or universities</td>
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<td>Pediatrics</td>
<td>Medical schools</td>
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<tr>
<td>Psychiatry</td>
<td>Large corporations</td>
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<td>Radiology</td>
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<td>Surgery</td>
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<td>Research</td>
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<tr>
<td>Public Health</td>
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<tr>
<td><strong>DENTISTRY</strong></td>
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<tr>
<td>Some Areas of Specialization</td>
<td>Private practice (80% of dentists)</td>
<td>Test Required: DAT</td>
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<tr>
<td>Endodontics</td>
<td>Armed services</td>
<td>Schooling Required: After earning an undergraduate degree, the Doctor of Dental Surgery (DDS) or Doctor of Dental Medicine (DMD) requires 4 years of dental school (last 2 years are clinical rotations).</td>
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<tr>
<td>Oral Pathology</td>
<td>Federal, state, &amp; local health departments</td>
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<tr>
<td>Oral &amp; Maxillofacial Radiology</td>
<td>Correctional facilities</td>
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<tr>
<td>Oral &amp; Maxillofacial Surgery</td>
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<tr>
<td>Orthodontics</td>
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<td>Pediatric Dentistry</td>
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<td>Periodontics</td>
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<td>Prosthodontics</td>
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<td>Public Health</td>
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<td>Research</td>
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<td><strong>PODIATRY</strong></td>
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<tr>
<td>Some Areas of Specialization</td>
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<td>Test Required: MCAT or GRE</td>
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<tr>
<td>Surgery</td>
<td>Private practice</td>
<td>Schooling Required: After earning at least 90 hours of undergraduate course work, the Doctor of Podiatric Medicine (DPM) requires 4 academic years (last 2 years are clinical rotations). One year of post-doctoral residency is required in most states.</td>
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<tr>
<td>Orthopedics</td>
<td>Community health clinics</td>
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<td>Primary Care</td>
<td>Hospitals</td>
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<tr>
<td>Sports Medicine</td>
<td>Residential and nursing homes</td>
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<tr>
<td>Pediatrics</td>
<td>National Health Service</td>
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<tr>
<td>Dermatology</td>
<td>Sports clubs</td>
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<tr>
<td>Radiology</td>
<td>Some specialty retail chains</td>
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<tr>
<td>Geriatrics</td>
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<tr>
<td>Diabetic Foot Care</td>
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| **OPTOMETRY** | | |
| Some Areas of Specialization | | Test Required: OAT |
| Family Practice | Private practice | Schooling Required: After earning an undergraduate degree, the Doctor of Optometry (OD) requires 4 academic years at optometry school. |
| Pediatric Optometry | Vision care centers |
| Geriatric Optometry | Hospitals |
| Vision Therapy | Physicians’ offices |
| Contact Lenses | Armed services |
| Hospital-Based Optometry | Government organizations |
| Primary Care Optometry | |
| Ocular Disease | |
| Public Health | |
| Research | |

| **CHIROPRACTIC MEDICINE** | | |
| Some Areas of Specialization | | Test Required: GRE or MCAT |
| Sports Injuries | Solo and group practices |
| Neurology | Hospitals or health clinics |
| Orthopedics | |
| Pediatrics | |
| Nutrition | |
| Internal Disorders | |
| Diagnostic Imaging | |
| Ergonomics | |

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### Areas of Specialization

**Pharmacy**
- Clinical Pharmacy
- Intravenous Nutrition Support
- Oncology
- Nuclear Pharmacy
- Geriatric Pharmacy
- Psychopharmacotherapy
- Research
- Public Health

**Veterinary Medicine**
- Small Animal Care
- Large Animal Care
- Food Safety
- Preventative Medicine
- Surgery
- Laboratory Animal Medicine
- Research

### Employers

**Pharmacy**
- Hospitals
- Nursing homes
- Mental health institutions
- Health clinics
- Retail chains
- Government agencies including:
  - Food and Drug Administration
  - Public Health Service
  - Department of Veteran’s Affairs
  - Armed Services
- Pharmaceutical companies
- Health insurance firms
- Universities

**Veterinary Medicine**
- Group or private practice
- Federal government including:
  - Department of Agriculture
  - Department of Health and Human Services
  - State and local government
- Colleges of veterinarian medicine
- Medical schools
- Research laboratories
- Animal food companies
- Pharmaceutical companies
- Zoos

### Education Information

**Pharmacy**
- **Test Required:** PCAT
- **Schooling Required:** After spending 2 to 3 years in undergraduate coursework, the Doctor of Pharmacy (Pharm.D.) requires 4 academic years.

**Veterinary Medicine**
- **Test Required:** GRE, VCAT, or MCAT
- **Schooling Required:** After earning an undergraduate degree, the Doctor of Veterinary Medicine (D.V.M. or V.M.D.) requires 4 academic years at a college of veterinarian medicine. Veterinarians who plan to specialize will spend additional years in internships or residency programs.
STRATEGIES FOR GAINING ADMITTANCE INTO PROFESSIONAL PROGRAMS

- Choose an appropriate undergraduate major and include prerequisite courses required by the professional program, e.g. biology, chemistry, and physics, if they are not a requirement of the chosen major.
- Meet with a pre-health advisor periodically to discuss curricular decisions.
- Maintain a high grade point average, particularly in the sciences, to improve chances of admission to graduate or professional school.
- Develop strong computer, mathematics, and verbal and written communication skills.
- Build strong relationships with professors and/or employers in order to secure strong recommendations.
- Join related student organizations, such as Alpha Epsilon Delta, and assume leadership roles.
- Obtain summer jobs, volunteer positions, or internships to test fields of interest and gain valuable experience.
- Develop a backup plan in case medical/graduate school admission is denied.
- Look at entrance requirements for desired institutions. Be aware of any standardized test requirements, minimum grade point averages, and prerequisites.
- Talk to professionals already in your desired field regarding their backgrounds. Arrange a shadowing experience.
- Join professional associations and community organizations to stay abreast of current issues in the field and to develop networking contacts.
- Read scientific journals related to your area of interest.
- Research accredited institutions. Check graduation rates, success rates on licensing exams, cost, location, etc. If possible, speak with current students.

GENERAL INFORMATION

- Develop a desire to help people of all backgrounds and ages including various races and socioeconomic groups.
- Gain an understanding of the rigorous education and training required in the medical professions to ascertain your willingness to complete the required experiences.
- Study the demands required by each of the medical fields. Many physicians work very long, irregular hours. Consider your tolerance for such a schedule.
- All fields require licensure that is generally regulated by the state of residency.
- Plan for a lifetime of learning to stay abreast of new trends in the field and to fulfill continuing education requirements for licensure.
- In some medical fields, additional training is necessary for advanced research and administrative positions, university teaching, and independent research.
- Some medical fields offer the opportunity for post doctoral experiences which can allow one to gain additional training or specialize in a particular area.