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Why a career in Health Care?

Many of the fastest growing health care jobs are in the health care industry. The health care industry will generate three million new wage and salary jobs between 2006 and 2016, more than any other industry. Factors contributing to continued growth in this industry include the aging population, and the increased use of innovative medical technology for intensive diagnosis and treatment. The effect of the increasing proportion of the elderly is already being felt.

Some people think of health care careers as working directly with the patient and their families. While that is the case in many areas of the health care industry there are other positions that do not work with the patient. There are many careers that work behind the scenes.

Take, for example, the position of clinical laboratory technician. Much of their work occurs away from the patient. Once a blood sample is taken, it travels to the lab where the technician analyzes it and reports the results. These people do not work directly with patients, but still work in the health care industry.

However, if you do like taking care of people and feel energized by helping someone directly then a career in health care might be for you too. Health care jobs present many fulfilling opportunities.

Northeast Iowa Community College

Associate Degree Nursing

The Associate Degree Nursing program prepares you to assess, plan, implement, and evaluate the health care needs of patients and clients. This comprehensive program includes specific nursing courses as well as core course requirements in the areas of communication, science, math, social science, and life skills. Classroom activities are closely correlated with selected learning experiences in hospitals and other health care settings. After successful completion of this program, you are eligible to write the National Licensure Exam (NCLEX) to become a Registered Nurse. The program is approved by the Iowa Board of Nursing.

This program participates in a state-wide articulation program which facilitates transfer of ADN graduates to four-year institutions within Iowa for the advanced study of nursing.

ENTRANCE REQUIREMENTS

The ADN program is a ladder-concept program. Current physical, immunization record and American Heart Health Care Provider CPR or American Red Cross CPR for the Professional Rescuer are required before attending the clinical portion of nursing courses. Prior to the clinical experience you will be required to complete a criminal record/child and adult abuse registry check. A positive report may prevent you from attendance in clinical and completion of the program. You may also be required to provide documentation of health insurance coverage and undergo drug screening. (Please see other entrance requirements at www.nicc.edu)

AWARD

AAS

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Northeast Iowa Community College

Coding Specialist

The Coding Specialist option has been designed for the student who wants to be employed in health care settings to do coding activities for health care reimbursement purposes.

This program includes classes in computer and health sciences. You must have a working knowledge of anatomy and physiology, medical terminology, disease processes, coding classification, and reimbursement systems.

Prior to the professional practice experience, you will be required to complete a criminal/child and adult abuse registry check. A positive report may prevent attendance in professional practice experience and completion of the program. Current physical and immunization records are required prior to professional practice. Some professional practice affiliations may require additional screenings.

The Coding Specialist program is designed to ladder into the Health Information Technology program.

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment prior to being accepted into the program. Current physical and immunization records are required prior to the start of the clinical affiliations. You will also be required to complete a criminal background check for some clinical affiliations. A positive report may prevent you from attendance in professional practice experience and completion of program.

AWARD

DIP

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Northeast Iowa Community College

Dental Assisting

The Dental Assisting curriculum is career-oriented. It prepares the student, as a member of the dental health team, to assist the dentist in all phases of dentistry. The program includes chairside procedures associated with general and specialty dentistry, radiology, laboratory, and business office assistance. Clinical experience is an integral part of the educational program with rotations through various dental facilities.

The program is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of approval with reporting requirements. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611.

Upon successfully completing the program, you are eligible to take an examination prepared by the Dental Assisting National Board to become a Certified Dental Assistant (CDA). Successful completion of the Radiation Health and Safety and Infection Control sections of this national exam also fulfills the radiography and infection control testing requirement of the Iowa Board of Dental Examiners. After graduation you have the flexibility of being employable nationwide. Dental assisting offers some of the most ideal working conditions and attractive hours of any of the health professions while demanding a high degree of interaction between staff and patient.

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment in reading and meet the minimum entrance requirements prior to being accepted into the program. A skill developing activity is available at no cost if you do not meet the minimum requirements on the first testing. Current adult and child CPR certification and current physical, dental, and immunization records are required before attending the clinical portion of dental assisting courses. A high school diploma, or its equivalent is required for admission to the program.

AWARD

DIP

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

www.NICC.edu

Northeast Iowa Community College

Medical Laboratory Technician

The Medical Laboratory Technician program offers you the opportunity to take two semesters of study at NICC and then a summer term and one semester at Hawkeye Community College (HCC) in Waterloo before completing the 24-week clinical internship. NICC and NIACC are academic affiliates of the MLT program at HCC.

The Medical Laboratory Technician program prepares you to work under supervision of a medical technologist, pathologist, or other qualified physician in a medical laboratory. A technician performs tests that aid in the diagnosis and treatment of disease.

Graduates of this program may take a national certification examination. Because of the increased demand for laboratory services, certified workers are needed in hospital laboratories, clinics, physicians' offices, public health agencies, research institutions, and the armed forces. Upon graduation, you may also continue your education at a four-year institution to become a medical technologist.

The Medical Laboratory Technician program is accredited by the National Accrediting Agency for Clinical Laboratory Science.

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment prior to being accepted into the program. Current physical and immunization records are required prior to the start of the clinical laboratory courses. You may also be required to complete a criminal record/child and adult abuse registry check for some clinical affiliations. A positive report may prevent you from attendance in clinical and completion of the program. You may be required to take preparatory courses in math, biology, and chemistry prior to entering college courses.

AWARD

AAS

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

www.NICC.edu

Northeast Iowa Community College

Medical Transcriptionist

Medical transcriptionists translate and edit recorded dictation by physicians and other health care providers regarding patient assessment and treatment. To understand and accurately transcribe reports, you must understand the language of medicine, anatomy and physiology, diagnostic procedures and treatment. You will transcribe the dictated reports and return them in either printed or electronic form to the dictator for review and signature or correction. These reports eventually become a part of the patient's permanent file.

The program includes classes in word processing as well as science and medical terminology. In addition, this program, which contains classroom and lab experiences, will prepare you for employment in physicians' offices and health care facilities, and you may be able to work at home.

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment prior to being accepted into the program.

AWARD

DIP

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Northeast Iowa Community College

Health Information Technology

The Health Information Technician is a health professional who ensures the quality of medical records by verifying their completeness and accuracy. The technician uses computer applications to assemble and analyze patient data that is used for improving patient care. The technician specializes in using the medical record for coding diagnoses and procedures used for health care research and facility reimbursement and practices the standards of healthcare delivery related to the legal requirements for protecting the privacy of patient information.

This program prepares you to work in a variety of healthcare settings. It contains classroom, lab, and professional practice experience, including classes in computer science, health sciences, coding and reimbursement, legal issues, and data management functions. If you are pursuing a health career, you have the option of choosing the Health Information Technology (AAS) or Coding Specialist (diploma) degree.

The AAS option has been designed for the student who, after completing the two-year Associate of Applied Science degree, will be eligible to apply to write the national qualifying examination for certification as a Registered Health Information Technician (RHIT). This program, which contains classroom, lab, and professional practice experiences, prepares students for employment in health care settings to be responsible for maintaining the completeness of patient records.

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment prior to being accepted into the program. Current physical and immunization records are required prior to the start of the clinical affiliations. You may also be required to complete a criminal record/child and adult abuse registry check. A positive report may prevent you from attendance in professional practice experience and completion of program.

AWARD

AAS

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

www.NICC.edu

Northeast Iowa Community College

Practical Nursing

This program of classroom, lab, and clinical experience will prepare you for employment in hospitals, nursing homes, and a variety of other health care facilities. The Practical Nurse gives nursing care to patients under the supervision of the Registered Nurse (RN). You assist RNs in providing care to patients in more complex situations. Following successful completion of the program, you are eligible to write the National Licensure Examination (NCLEX) to become a Licensed Practical Nurse (LPN).

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment in reading and math and meet the minimum entrance requirements prior to being accepted into the program. A skill developing activity is available at no cost if you do not meet the minimum requirements on the first testing. Current physical, immunization records, and American Heart Health Care Provider CPR or American Red Cross CPR for the Professional Rescuer certification are required before attending the clinical portion of nursing courses. Prior to the clinical experience, you will be required to complete a criminal and/or child and adult abuse registry check. A positive report may prevent you from attendance in clinical and completion of the program. You will be required to provide documentation of health insurance coverage and undergo drug screening. (Please see other entrance requirements at www.nicc.edu)

AWARD

DIP

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Northeast Iowa Community College

Radiologic Technology

A radiographer is a vital member of the health care team. The radiographer's responsibilities range from obtaining diagnostic information to assisting physicians with complex procedures.

The radiographer must be able to recognize emergency situations and react quickly to various patient conditions. The radiographer works in diverse settings, including hospitals, clinics, and physicians' offices.

The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The mission of the program is to provide an ambitious didactic and clinical education that will produce compassionate, confident, and professional technologists. The program will provide a variety of work settings and experiences to successfully prepare graduates to function as entry-level radiographers. Upon graduation, a qualified graduate will be eligible to take the national registry examination, thereby becoming a certified Registered Radiographer. Students will rotate through multiple clinical sites within an 80-mile radius of Dubuque.

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment in reading and math and meet the minimum entrance requirements prior to acceptance into the program. A skill developing activity is available at no cost if you do not meet the minimum requirements on the first testing. Current American Heart Health Care Provider CPR or the American Red Cross CPR for the Professional Rescuer certification, physical, and immunization records are required before attending the clinical portion of the radiologic technology courses. Prior to the clinical experience you will also be required to complete a criminal record/child and adult abuse registry check. A positive report may prevent you from attendance in clinical and completion of the program. You may also be required to provide documentation of health insurance coverage and undergo drug screening. (Please see other entrance requirements at www.nicc.edu)

AWARD

AAS

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Northeast Iowa Community College

Respiratory Care

Respiratory care practitioners are allied health specialists who play a crucial role within the health care team. Working closely with physicians and other health care professionals, they care for patients with respiratory and cardiovascular conditions. Under the supervision of a physician, they are involved with the assessment, treatment, diagnostic testing, rehabilitation, and prevention of conditions that affect the respiratory and cardiovascular systems. Employment opportunities are found in hospitals, clinics, home health care agencies, product support and sales, education, rehabilitation and continuing care, and health/disease prevention programs.

The Respiratory Care program can be completed entirely through the Peosta Campus or as part of a transfer arrangement between Northeast Iowa Community College (NICC) and Eastern Iowa Community College (EICC). As part of the consortium, general education courses may be taken at EICC and the respiratory care courses will be offered at NICC on the Peosta Campus.

When you graduate with an Associate of Applied Science (AAS) degree, you are eligible for credentialing exams offered by the National Board for Respiratory Care (NBRC). The program is accredited by the Commission on Accreditation of Allied Health Educational Programs (CAAHEP) and the Committee on Accreditation for Respiratory Care (CoARC).

ENTRANCE REQUIREMENTS

You must complete a basic skills assessment in reading and math and meet the minimum entrance requirements prior to acceptance into the program. A skill developing activity is available at no cost if you do not meet the minimum requirements on the first testing. Current physical, immunization records, and American Heart Health Care Provider CPR or the American Red Cross CPR for the Professional Rescuer certification are required before attending the clinical portion of the respiratory care courses. (Please see other entrance requirements at www.nicc.edu)

AWARD

AAS

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Northeast Iowa Community College

Surgical Technology

The Surgical Technology program, a consortium between NICC and Kirkwood Community College (KCC), provides you the opportunity to complete your general education coursework through NICC and the Surgical Technology courses through KCC on NICC's Peosta Campus via the fiber optic network (ICN).

Surgical technologists work as members of the surgical team in a variety of settings, most frequently in the hospital operating rooms. They function under supervision to ensure that the operating room is safe, equipment functions properly, and the operative procedures are conducted under conditions that maximize safety.

When you graduate, you are eligible to take the national certification exam offered by the Liaison Council for Surgical Technologist certification. Kirkwood's Surgical Technology program is accredited by the commission on Accreditation of Allied Health Education Programs (CAAHEP) in collaboration with the American College of Technologists (AST) and is based on the recommendation of the Accreditation Review Committee (ARC).

ENTRANCE REQUIREMENTS

You will complete applications for both NICC and Kirkwood Community College and complete a basic skills assessment. You must be at least 17 years of age. Prior to beginning the program you will be required to complete a criminal record check. A positive report may prevent you from being accepted by an affiliated agency for a clinical experience and completion of the program. You may also be required to provide documentation of health insurance coverage. A completed health physical and current immunization record must be on file at the Kirkwood Health Office including verification of the hepatitis B vaccination or medical waiver on file. You are responsible for a yearly tuberculosis test. A current CPR for the Health Care Professional is also required. A copy of a high school diploma or GED certificate will need to be on file with the program coordinator. (Please see other entrance requirements at www.nicc.edu)

AWARD

AAS

LENGTH

The length of the program will depend upon your educational preparation and the course load you carry.

Highland Community College

Information Technology Health Care

Medical Transcription Emphasis

Degrees:

Certificate

Associate of Applied Science

The program prepares the student for entry-level employment as a medical transcriptionist in hospitals, clinics, doctors' offices, and other medical facilities utilizing dictating and transcribing equipment. The program involves science-based courses in anatomy and medical terminology.

Medical Coding Emphasis

Degrees:

Certificate

Associate of Applied Science

The Medical Coding Program is designed to prepare individuals to understand coding principles, guidelines, medical terminology and regulatory changes for coding. The program is designed to offer a wide variety of learning experiences including classroom lecture and observation in a hospital setting.



Highland Community College

Nursing Programs

Degrees:

Associate of Applied Science

Certificate

Certified Nurse Assistant

The Highland certified nurse assistant program (Cert.) curriculum will prepare students to take the state certificate exam for nursing assistants. Upon successful completion of the exam, students may work as nursing assistants. The CNA program provides a foundation for all other nursing programs at HCC. Students learn valuable direct care skills. This certification program is offered every semester, including the summer session, at the main campus in Freeport. It is also offered at off-campus sites.

Associate Degree in Nursing

This (AAS) degree prepares students to take the the National Council Licensure Examination (NCLEX–RN). Upon successful completion of the exam, the student is eligible to become licensed as a registered nurse (RN).

Practical Nursing

The practical nursing program (Cert.) prepares students to take the NCLEX–PN exam. Upon successful completion of the exam, the student is eligible to become licensed as a practical nurse (LPN). HCC, aware of the need for knowledgeable professionals in this popular career, offers this one-year program every fall.

Southwest Tech

Direct Entry Midwife

Midwives should be tolerant of different lifestyles, values, beliefs, and cultures; be able to maintain confidentiality; have a committed interest in pre-natal and well women care using the midwifery model of care; have effective communication and interpersonal skills; and have efficient writing skills.

This associate degree program will train you as a professional midwife and will qualify you for certification and licensure in Wisconsin. Graduates will provide hands-on holistic care for women of childbearing years and partner with other collaborative healthcare partners throughout the childbearing process. This program emphasizes assessment in the low-risk pregnancy. A midwife conducts an initial assessment during pregnancy which includes nutritional evaluation, overall health, risk level of the pregnancy, and then contracts and partners with the mother during the pregnancy to monitor fetal growth and development, overall health of the mother, and family support and resources available. The midwife will then assist in labor and birth of the child in home or birthing center settings. The midwife follows the birth of the child with instruction on lactation technique, initial care of newborn, and assessment of family support as mother and child transition in the home setting.

Career Opportunities

Graduates of the Direct Entry Midwife program may provide care during the childbearing years and well woman care using the midwifery model of care for women in clinics, private homes, and birthing centers. Direct Entry Midwives can work in both rural and urban settings.

Attending Southwest Tech is very affordable. Course fees for Wisconsin residents attending Southwest Tech are \$101.40 per credit and out-of-state residents invest \$152.10 per credit. In fact, some programs qualify for a complete remission of out-of-state tuition costs for qualified students.

Southwest Tech

Medical Assistant

Medical assistants show commitment to the patient, enjoy teamwork; deal effectively with stressful, fast paced work; possess effective listening skills; communicate well with others through oral and written means; have good mental dexterity; and demonstrate attention to detail.

Medical assisting is an allied health profession whose practitioners function as members of the health care delivery team and perform administrative and clinical procedures. In this program you will learn medical terminology; administrative, clinical, and lab procedures; pharmacology; and medical office insurance and finance. In addition, you will also be trained in healthcare customer service and medical law, ethics, and professionalism. An externship to practice learned skills is a valuable component of this program.

Career Opportunities

A graduate of the program will have the potential to be employed as a:

- Medical Assistant
- Claims Analyst
- EKG Technician
- Laboratory Assistant
- Medical Records Clerk
- Medical Office Assistant
- Phlebotomist

With additional education and/or work experience, graduates may find other opportunities for employment as follows:

- Medical Office Manager
- Medical Transcriptionist
- Insurance Coding Specialist

Southwest Tech

Nursing

Nurses are flexible, adaptable, able to think critically, and enjoy working with people. They are independent and self-directed, have good reading and comprehension skills, and are partners in various healthcare delivery systems.

This program prepares you to function within the roles of manager and provider of client care and member of the nursing discipline. The practice of nursing includes adherence to established standards of the profession; recognizing the impact of economic, political, social, and demographic forces on health care; use of effective communication skills, information technology, and the nursing process as the framework for evidence-based practice; consistently demonstrating caring, respect, and cultural sensitivity in interactions with others; health teaching; collaboration; management of resources; and assisting clients and their support network to cope with aging and/or adapt to chronic health alterations. Registered nurses provide direction and supervision for licensed and unlicensed assistive staff who carry out basic nursing care. Students who successfully complete the first year of the Nursing-Associate Degree curriculum will have met the academic requirements to take the practical nursing (LPN) licensure examination.

Career Opportunities

Opportunities include working in:

- Hospitals
- Physicians' Clinics
- Nursing Homes
- Extended Care Facilities
- Home Health Care
- Wellness Centers

Articulation with the University of Wisconsin Collaborative Nursing Degree Program and other private Bachelor of Science in Nursing (BSN) completion programs are available.

Southwest Tech

Nursing Assistant

Nursing assistants have a desire to help people, are comfortable working closely with clients providing personal care, are willing to accept delegated tasks and able to work as a member of a team, have good reading skills, and are able to do physically taxing work.

The Nursing Assistant program prepares you for employment in a health care facility or home health agency. Emphasis is placed on developing the knowledge and skills necessary to provide basic personal and nursing care including fluid and nutrition, mobility, and elimination needs. Nursing assistants also play an important role in meeting the emotional needs of clients. You will receive classroom and lab instruction as well as supervised clinical experience in a nursing home. This program is an opportunity to prepare for a career in the health care field with less than a one-year or one full semester commitment. It also serves as a stepping stone for advanced nursing or health care occupations. Upon successful completion of the 120-hour Nursing Assistant program, the 60-hour Nursing Assistant- Advanced course offers additional knowledge, skills, and clinical experience in a hospital setting. You will demonstrate blood pressure measurement, assisting with admission and discharge, isolation precautions, caring for the surgical client, and assisting in caring for clients with oxygen, I.V.s, nasogastric tubes, casts, and traction.

Career Opportunities

There are many job openings for nursing assistants in southwest Wisconsin as well as throughout the state. The nursing assistant performs basic nursing tasks under the supervision and direction of the registered nurse. Employment is found in nursing homes, hospitals, and home health agencies. The Southwest Wisconsin Technical College Nursing Assistant Certificate is recognized by employing agencies in southwest Wisconsin as excellent training for employment.

timesaver

Clarke College

The TimeSaver Program allows adults to earn a degree while having a life outside the classroom.

Degree programs offered in:

- Accounting
- Business Administration
- Communication
- Computer Information Systems
- Nursing
- Psychology
- Religious Studies
- Supervision and Leadership (Applied Studies)

E-mail timesaver@clarke.edu or call (563)588-6354 for more information.

Apply today!



Clarke College

www.clarke.edu/timesaver

Clarke College

Athletic Training

Under the supervision of a licensed physician, athletic trainers administer immediate emergency and follow-up care. They develop athletic injury prevention, treatment and rehabilitation programs using their knowledge of biomechanics, anatomy and pathology. They also provide a vital communication link between the injured athlete, physician, coach and athlete's family to determine the best time for return to practice and competition.

Clarke's athletic training program has a strong liberal arts component, which helps students develop an understanding and appreciation of the many dimensions of humans – structural, functional, psychosocial, emotional and spiritual. You will work hand-in-hand with faculty members and other students to gain valuable experience. You'll also gain experience as you complete clinical rotations with area high school and college teams as well as with orthopedic doctors and health services offices.

Graduates have requisite skills to practice athletic training as generalists who can appropriately adapt to practice across all health care settings and patient conditions. Clarke focuses on preparing athletic training graduates who are culturally sensitive, professional and service-oriented practitioners who demonstrate safe and effective practice within an ethical framework.

Clinical management, communication, and scholarship form the foundation for professional practice.

Clarke's athletic training program focuses heavily on critical thinking and problem-solving skills to help students be prepared for work in an ever-evolving health care system. Student reflection is also fostered in all phases of the program.

Clarke College is accredited through the Commission on Accreditation of Athletic Training Education Programs (CAATE), and does not endorse the internship route to certification.

Clarke College

Biochemistry

Biochemistry is the study of how living organisms work. One of the most stimulating aspects of biochemistry is its increasing interaction with medicine. This interdisciplinary program Clarke College includes a strong background in both chemistry and biology with additional support from physics and mathematics.

At Clarke your teachers will be Ph.D. chemists, biochemists and biologists. You will have hands-on experience with research-grade instrumentation in a program in which lecture and laboratory work are closely integrated. You will work one-on-one with faculty on an undergraduate research project which is an important criterion for entering graduate school.

You will also become skilled at analyzing the bioethical issues challenging the scientific community. In addition to graduate study in biochemistry, a major in biochemistry provides the foundation for many biomedical fields, including genetics, molecular biology, physiology, cell biology, and immunology. It also provides the basic science background for prospective science teachers.

Clarke chemistry and biochemistry majors leave with a strong foundation in the liberal arts and excellent preparation for the career of their choice. They are managers of laboratories, research scientists, physicians and lawyers! They work for industrial firms and in academic, government and environment laboratories. They have received degrees from graduate programs at leading universities across the country.



Clarke College

Biology

Biology is a rapidly expanding, widely diverse discipline, embracing all aspects of life. At Clarke, the biology department is focused on ensuring that you are well prepared for the challenges of the future. You will have the opportunity to design your own experiments from the introductory course through your senior capstone course, using appropriate equipment and techniques in the biology laboratories. This means that you will be better prepared to enter the workforce or continue your education in a professional or graduate program.

The supportive learning environment will put you one-on-one with qualified biology faculty members (all of whom have a Ph.D.). You will have the opportunity to learn from our donors and faculty in our medical-school-quality cadaver laboratory. Furthermore, the faculty will assist you in obtaining research and internship opportunities.

The department is committed to helping you graduate with a liberal arts education which is complemented by the theory, skills, and knowledge of focused study in biology. You will increase your content knowledge while developing skills important to the scientific process including hypothesis formation, critical reading of the scientific literature, and collection, interpretation and dissemination of results.

Clarke College

Chemistry

Chemistry is everywhere in the world around us. It is the fabric of the world woven into everything in what we eat, in what we breathe, in how we live, in what we are. Sight, taste, touch – all of the ways we perceive the world around us – are driven by chemical reactions. Chemists today are tackling issues such as global climate change, energy resources, genetic manipulation of crops, re-emerging diseases and their treatment, and environmental pollution.

At Clarke, you can be prepared to impact these concerns and more with a chemistry degree. You'll even work one-on-one with expert faculty on an undergraduate research project – an important criteria for entering graduate school. You will also become skilled at analyzing the ethical issues challenging the scientific community.

A major in chemistry provides the foundation for many fields directly after graduation. Many Clarke chemistry graduates go on to complete graduate work at some of the nation's most prestigious Ph.D. programs. They also capitalize on the internship experiences they had at Clarke to begin their careers. Clarke chemistry majors leave with a strong foundation in the liberal arts and excellent preparation for the career of their choice.

The chemistry major also provides an excellent science background for prospective science teachers. There is a growing shortage of highly qualified science teachers at the middle school and high school level.



Clarke College

Nursing

With a bachelor of science in nursing degree from Clarke, you'll benefit from the outcomes that can only come from one of the most well-respected nursing programs in the region. In fact, on average, 90 percent of employers rate Clarke nursing students higher than graduates from other nursing schools.

Part of the Clarke difference is the liberal arts foundation of the nursing program. An undergraduate nursing major at Clarke integrates knowledge from the humanities and from the natural, social, and nursing sciences to prepare nurse generalists with critical judgment skills and leadership potential. The curriculum also emphasizes caring as the integrating concept in promoting, maintaining and restoring health of communities, of families and of individuals across the life span.

At Clarke, you'll also have the opportunity to work with expert faculty members who bring a wealth of clinical experience to the classroom and hold advanced certifications. Combine this with prestigious clinical affiliations at medical centers like Mayo Clinic, and you are on your way to nursing success!

The bachelor's degree in nursing prepares men and women for academic eligibility for licensure as registered nurses and, after licensure, for functioning as professional nurses in a variety of settings, including community agencies, clinics, extended care facilities, schools, industry, and hospitals.

The need for nurses prepared at the baccalaureate level has never been greater – and Clarke graduates are taking advantage of the demand. Graduates also have the academic foundation necessary to pursue graduate study (which is available right at Clarke) and clinical specialization.

The Clarke College Nursing Program is approved by the Iowa Board of Nursing and accredited by the Commission on Collegiate Nursing Education, One DuPont Circle, NW, Suite 530, Washington, DC, 20036-1120, (202)887-6791.

Clarke College

Pre-Physical Therapy and Doctor of Physical Therapy

With a Doctor of Physical Therapy (DPT) program offered right on campus, Clarke undergraduate students reap the benefits that come with an accelerated “3+3” program in which qualifying students can finish both their undergraduate and DPT degrees in 6 years.

Since the physical therapy program at Clarke is an entry-level doctoral program that requires an undergraduate degree in another area, many students choose to major in athletic training, psychology, biology or chemistry.

When you pursue a degree in physical therapy at Clarke, you will benefit from top-notch facilities, elite clinical affiliations and expert faculty. In fact, Clarke is one of a few small schools to have a medical-school-quality gross anatomy lab. Combine this with our progressive physical therapy classrooms, and you’ll find an environment conducive to great teaching and learning.

Plus, when you get ready to start clinical experiences within the DPT program, you will benefit from our national network of clinical internships at some of the top clinics and medical centers in the country. The curriculum is built to ensure that you gain experience seeing actual patients early and often during the curriculum. You’ll also work hand-in-hand with expert faculty who all still currently practice and are involved in physical therapy research.

Clarke physical therapy graduates have had a 100 percent board pass rate for licensure and job placement rate since moving from a master’s to doctoral degree in 2004. Clarke graduates are employed across the country in a variety of geographical settings, from rural to urban, in almost every imaginable practice setting.

The Clarke College Physical Therapy Program was re-accredited in 2004 for 10 years by the Commission on Accreditation for Physical Therapy Education.

Clarke College

Pre-Professional Health Sciences

Pre-professional education at Clarke is based on recommendations for entering medical students in the Association of American Medical Colleges (AAMC-HHMI) report “Scientific Foundation for Future Physicians – 2009.”

With Clarke’s strength in science programs, combined with excellence in the liberal arts, it is the ideal place to prepare for medical school and advanced schooling for other health professions such as dentists, chiropractors, veterinarians and pharmacists.

Clarke can provide you with the strong liberal arts background and basic sciences essential for success in medicine. While certain courses in science are necessary, most post-baccalaureate medical programs do not prescribe a major. At Clarke, the biology and chemistry department will work with you to plan a recommended major sequence that will prepare you for the next step.

At Clarke, you’ll be challenged by academic programs in the basic sciences and laboratory courses are designed to develop your thinking skills. You will also develop and clarify your personal values in preparation for the ethical and moral questions you will face in the future.

Oral and written communication skills are emphasized as you prepare to communicate clearly and accurately with your patients and colleagues. These are all skills critical to success in post-baccalaureate studies.

Clarke students have successfully completed medical and dental programs at the University of Iowa, the University of Illinois, Chicago Medical College, Rush School of Medicine and others. A career in medicine awaits you and it can begin at Clarke!

be healing

If you have a passion to impact and even save lives, a career in science and the health professions may be right for you. At Loras College choose from the following:

Majors & Programs

Biology / Biology Research / Biology for secondary education
Chemistry / Biochemistry / Chemistry for secondary education

Pre-Health Professions

Dentistry
Medicine
Nuclear Medicine
Nursing
Optometry
Pharmacy
Physical Therapy
Physicians Assistant
Podiatry
Veterinary Medicine



be more. be LORAS.



LORAS COLLEGE

+ Catholic | Liberal Arts | Dubuque, Iowa | 800.245.6727 | www.loras.edu

Loras College

Biology / Biology Research

The Loras College Biology Program exists within the framework of a liberal arts college and as such is dedicated to:

- provide access to fundamental concepts of biology for all students
- provide access to specialized biological knowledge for majors and minors who rely on this knowledge for their particular career goals
- serves as a source of expertise, both research and instructional, for the local community, State of Iowa and beyond. In both instances, this access and service is afforded in a Christian and Catholic atmosphere where moral and ethical implications of biological knowledge are conveyed to the students and various publics
- fully committed faculty in teaching and guiding students in achieving the highest level of professional competence as biologists

The Biology Program offers majors in biology and biological research. The biology major is designed for those students wishing a broad background in biology but who do not wish to pursue a research orientation; the biological research major is designed for those students additionally wishing research experience. Successful completion of a comprehensive examination given during the senior year is required of all majors. There is also an optional specialization in biology for secondary education.

Loras houses several biology labs to help students learn how to use equipment, work with statistics, write results and explain implications of their findings. Including a Recombinant DNA laboratory. Loras gives students experience with the latest molecular and genetic technology including DNA fingerprinting, protein gel analysis and DNA sequence amplification (PCR). Further hands-on learning is available through summer research experiences and internships at large universities throughout the country. Opportunities with the Nature Conservancy, with state departments of Natural Resources and with other environmental agencies allow students to make important personal connections that can be used later for permanent employment.

Graduates in the Biology or Biology Research Major have gone to do the following:

- Enter one of many Health Science training programs.
- Further graduate training in research-based masters or doctoral programs in: Neuroscience, Developmental Biology, Cell or Molecular Biology, Physiology, Genetics, Botany, Ecology, Ornithology, Zoology and Environmental Science.
- Teach High School Biology with teaching certification – many students get a coaching certificate to go with their classroom teaching degree.
- Work for a Pharmaceutical Company or biotechnology company – research and development or sales.

Loras College

Chemistry / Biochemistry

Chemistry and Biochemistry provides students with the opportunity to develop a strong foundation in chemical principles and to apply them to laboratory applications. This foundation enables Chemistry and Biochemistry graduates to pursue a wide range of careers in chemical industry, research, education, and engineering, or in interdisciplinary fields such as medicine, dentistry, other health professions, forensic science, or patent law.

Loras offers programs in Chemistry, Biochemistry and Chemistry for Secondary Education. Within the chemistry degree there is the option of specializing in biochemistry as well as the option of having your degree certified by the American Chemical Society.

Recent Graduates in the Chemistry/Biochemistry Major have gone on to a variety of careers, professional schools and graduate schools:

- Approximately 25% are in medical school.
- Another 25% are in a variety of health science programs including veterinary medicine, pharmacy, nursing, osteopathic medicine and optometry.
- 25% are in graduate school or law school in places like: University of Iowa, Drake, Duke, Kansas, Arkansas, Illinois at Chicago, Colorado, and Northern Illinois.
- The remaining 25% are using their Loras training in industry, as laboratory technicians, or teaching high school.

Loras College

Pre-Health Professions

Loras College Pre-Professional Advising provides the groundwork, experience and personalized guidance needed for successful admission to the professional health school of choice.

Loras students planning a career in health professions have unique goals and educational plans. Careful consideration and long-range planning must begin now if you wish to join the many Loras graduates practicing law, medicine, dentistry, veterinary medicine, podiatry, optometry, pharmacy, physical therapy, physician assistant, chiropractic medicine, nursing and nuclear medicine.

Loras College is dedicated to providing support services for pre-health professions students. Our program provides resources for those students to guide their pre-professional preparation and enhance their pre-professional development.

Students are individually advised each semester with great care and attention being given to student completion of professional program prerequisites and preparation for the respective standardized tests and application processes. The model for advising is shared responsibility and the objective is to provide the resources for students to be able to make informed decisions regarding their pre-professional pathway.

Loras College offers the following Pre-Health Professions: Chiropractic Medicine; Dentistry; Medicine; Nuclear Medicine; Nursing; Optometry; Pharmacy; Physical Therapy; Physicians Assistant; Podiatry; Veterinary Medicine

To assist students in their pre-health professions path, the following are offered:

- regular advising sessions with the health science coordinator/ faculty advisors
- campus visits from Admission Officers of the health professions schools
- campus visits from local Health Science Professionals
- visits to various health professions schools
- application and Interviewing Workshops and Mock Interviews
- resources on career choice, schools, and admissions requirements
- MCAT prep courses
- opportunities for students to investigate the health profession of choice
- opportunity to join the Health Science Club

University of Dubuque

Biology

Careers in biology include teaching, research, quality testing, technical sales, environmental technology, public service, and laboratory work. Biology courses, combined with those in related sciences, furnish preparation for studies in nursing, medicine, dentistry, pharmacy, other health related fields, and graduate school.

Advantages

- Access to modern laboratory and field facilities, including a new science building.
- Small Classes/Close Instruction. Faculty works closely with students on projects, both on campus and off campus.
- Opportunities to receive career related training from professionals through internships.
- The Mississippi River and nearby natural areas as outdoor laboratories.



University of Dubuque

Nursing

The Mission of the University of Dubuque Nursing Program

To educate nurses to provide the highest quality of care within the context of the diverse, dynamic, and challenging health care environments of the 21st century.

Upon completion of the University of Dubuque Nursing Program, graduates will:

1. Deliver patient-centered care that is ethical, safe, effective, efficient, timely, and equitable using systematic assessment and critical analysis of the care situation and application of the best evidence, best practices, available technology, cultural considerations and ethical tenets.
2. Promote health care teamwork to affect the highest quality patient-centered care through the use of communication, relationship-building, quality improvement, management, and leadership skills.
3. Optimize patient, family, and population health and self-care ability in a variety of health care settings by constantly seeking to identify, develop, implement, and maintain best health practices with other health care team members.
4. Identify, analyze, and maximize personal and professional opportunities for growth.
5. Participate in political, regulatory, and health care organizational processes to promote improvements in health care delivery systems and practices.

University of Wisconsin-Platteville

Biology

Students majoring in Biology may elect one of two routes to fulfill their degree requirements. Students who have specific biology interests, or who plan on a particular biology career, or who intent to enter a graduate or professional school should select the Comprehensive Biology Major with an Area Emphasis. Students who seek a wider range of biology experiences than is defined by an emphasis area may elect to not choose an emphasis area, instead creating their own set of electives that better align with their current or future interests and career goals.

Emphasis Areas

Biohealth/Physiology emphasis

If you are interested in a career in health care consider the Biohealth/Physiology emphasis. Whether you plan to be a medical doctor or dentist, a physician's assistant or nurse practitioner, or a physical therapist, chiropractor, or a nurse, the coursework within this emphasis is designed to prepare you for the next step of your education. You will work with you academic advisor to select the most appropriate electives for your specific area.

There are many benefits to choosing UWP for your undergraduate education if you plan to pursue a career in the health fields. In addition to excellent teachers and small class sizes, which are the hallmark of our Biology Program in general, you may have the opportunity to take Human Gross Anatomy or, if you hope to be a medical doctor, to apply to the Rural and Urban Scholars in Community Health (RUSCH) program, which is sponsored by the UW School of Medicine and Public Health, to name a few very specific opportunities. Coursework is rigorous and expectations are high, but for committed students, the likelihood of getting accepting into professional school following graduation is high. Careers in health care are widely available and offer a variety of benefits, greatest of these are the rewards that come from serving others.

(continued on following pages)

University of Wisconsin-Platteville

Cytotechnology emphasis

Cytotechnology is the microscopic study of cells that have been obtained from body tissues. Specifically, cytotechnologists learn to identify cellular abnormalities that may be the earliest signs of disease, including cancers. Cytotechnologists are often employed by hospitals and medical clinics. This is a field that is in high demand throughout the country. If you are a detail-oriented person, enjoy working with microscopes, and are interested in working in the health-care field, a career in cytotechnology may be for you.

Students with a Cytotechnology Emphasis are required to take 93 credits at UWP (generally three years), whereupon they are eligible to apply to the School of Cytotechnology, in the State Laboratory of Hygiene, in Madison, Wisconsin. If accepted, 12 months of study will follow at the School of Cytotechnology in Madison. Upon completion of the program, students will graduate with a Bachelor of Science Degree in Biology from UWP, and will receive a certificate from the School of Cytotechnology. After this, students are also eligible to take the written and practical examination in Cytotechnology, conducted by the Board of Registry of the American Society of Clinical Pathologists.

Molecular / Genetics emphasis

The growth in our understanding of processes occurring at the cellular and sub-cellular levels has led to biological advances that range from mapping genomes to bio-engineering better medicines, with new developments occurring daily. To put it simply, molecular biology has had—and will continue to have—profound effects on how we all live life on Earth in every conceivable way. If being a part of this cutting edge branch of biology is appealing to you, then you should consider the Molecular / Genetics Emphasis. Job opportunities for those with training in this field are countless, and include everything from working for any one of a number of private biotech companies ([link](#)), to jobs in the fields of healthcare, agriculture, environmental science and forensics, to name but a few. Many students with a Molecular / Genetics Emphasis also choose to continue their education in graduate school, following completion of their Bachelor's degree at UWP.

University of Wisconsin-Platteville

There are many benefits to choosing UWP for your undergraduate education if you plan to pursue a career as a molecular biologist. In addition to excellent teachers and small class sizes, which are the hallmark of our Biology Program in general, you will have the opportunity to learn techniques and the use equipment common in the practice of molecular biology. Motivated students with this emphasis may elect to undertake independent research projects under the guidance of a faculty advisor.



University of Wisconsin-Platteville

Biochemistry

The four year degree program at UW-Platteville leading to a Bachelor of Science in Chemistry with a Biochemistry Emphasis provides the graduate with the appropriate chemistry/biology/biochemistry background to succeed in bachelor's level positions or in graduate/professional schools.

The student in this program is required to take courses in the major areas of chemistry – general, inorganic, organic, quantitative analysis, and physical chemistry as well as seven credits of biochemistry. All chemistry majors are required to take one year of general physics and at least two semesters of calculus. For the biochemistry emphasis, students replace some of the theoretical courses in chemistry with courses which include: either botany or zoology; microbiology; and one of the following: cell biology, genetics, biotechnology or immunology.

The University of Wisconsin-Platteville has nine full-time chemistry faculty with specialties in analytical chemistry, biochemistry, environmental chemistry, inorganic chemistry, instrumental analysis, organic chemistry, and physical chemistry. Advanced chemistry classes are kept small to ensure that there is considerable opportunity for interaction with instructors who are dedicated to providing sound, balanced instruction. The Chemistry Program has been approved by the American Chemical Society.

Facilities

Laboratories are located in Ottensman Hall, a modern air-conditioned facility with well-equipped laboratories. Instrumentation includes ultra centrifuge, UV/VIS/NIR spectrometer, high performance liquid chromatograph, scanning electron microscope, gas chromatograph-mass spectrometer, fluorescence spectrometer, FT-NMR spectrometer, and FT-IR spectrometer. A wide variety of other modern instrumentation is also available for student use, both as part of course work or in undergraduate research. In the interest of safety, the laboratory hoods have been completely replaced and the ventilation system upgraded. All laboratories are networked for computer transferral of data and a well-updated computer laboratory is available for students.

University of Wisconsin-Platteville

Pre-Pharmacy

The prepharmacy program at UW-Platteville involves two years of study in a selected group of courses covering a wide variety of subject matter. The courses provide the necessary science background as well as an understanding of people and institutions to insure that students completing the program succeed in pharmacy school and in their practice of pharmacy. Since Prepharmacy is a preprofessional program at UW-Platteville and not a major, students should declare a major, typically chemistry, to facilitate advising, special events, and administrative matters. Upon completing the two-year prepharmacy program, taking the PCAT (Pharmacy College Admissions Test), and being accepted by a school of pharmacy, the student enters a three-year program of study. Following graduation, completion of a one year internship, and passage of the state board examination, the pharmacist is licensed to practice. Another option involves a two year program which parallels prepharmacy and an additional two years at another institution leading to either a degree in pharmacology and toxicology or a degree in pharmaceutical sciences. This non-licensed option is selected by students planning to do research and development in new drugs and therapies.

Pre-Medical

The four year degree program at UW-Platteville leading to a The pre-medical program at UW-Platteville is currently handled through the biology department. If you desire to go to post-graduate medical professional school, enrolling in their pre-medical program is a plus. A bachelor's degree in chemistry never hurts a pre-medical application and a BS in chemistry opens up many career paths should medicine not be your ultimate career goal. Biochemistry and the ACS chemistry degree are excellent degrees for the aspiring doctor, and our research-active faculty are certain to capture the inquisitive student's interest.