



# 2005 Academic Preparedness

## Requirements in High School for College/Universities

Funded by the Hospital Council of East Central Michigan and Michigan Department of Labor and Economic Growth.  
This information researched by the Hospital Council of East Central Michigan's Regional Workforce Committee.  
Information provided by the East Central Michigan Health Care Regional Skills Alliance and Michigan Works!

The math and science requirements for several of the careers listed may be earned while attending a Career and technical Center's high school program. Students may also have the opportunity to earn college credits as well as professional certifications while attending a center.

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
<b>Aerobic Instructor</b> Advanced Certificate	Teaches safe & effective exercise to a wide variety of populations. Understanding of human anatomy & physiology is included in program. Completion of program provides eligibility to sit for the American Council on Exercise (ACE) National Certification Exam.	College prep Math College prep Science Anatomy Physiology	24 credit hours	Essentials of Anatomy & Physiology	24 Program Credits relating to: <ul style="list-style-type: none"> <li>• Pilates</li> <li>• Kick Boxing</li> <li>• Astanga Yoga</li> <li>• Step Aerobics</li> <li>• Lifelong Wellness</li> <li>• First Aid/CPR</li> <li>• Nutrition</li> <li>• Theory of Strength &amp; Conditioning</li> <li>• Fundamentals of Oral Communication</li> <li>• Aerobic Instructor</li> </ul>	24	\$15-40 per one-hour class
<b>Athletic Trainer</b>	Evaluates and treats athletic injuries, educates to promote injury prevention, educates on nutrition, supervises rehab strengthening programs under the supervision of a registered physical therapist.	Intermediate Algebra or Trigonometry Advanced Biology Advanced Chemistry Anatomy & Physiology: recommended	18 week internship	21 credits relating to: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Intro to Athletic Training</li> <li>• First Aid</li> <li>• Human Growth &amp; Development</li> </ul>	63-72 Program Credits relating to: <ul style="list-style-type: none"> <li>• Clinical skills in athletic training</li> <li>• Therapeutic modalities</li> <li>• Physiology</li> <li>• Nutrition</li> <li>• Biomechanics</li> <li>• Research</li> <li>• Certification NATA — BOC Exam</li> </ul>	124	\$30,000-\$50,000 annually \$14-24 per hour
<b>Audiologist</b>	Improve accuracy of hearing, evaluate hearing problems, develop treatment programs to help clients adapt to hearing problems.	Algebra or higher Biology Chemistry Anatomy & Physiology: recommended	4 years after Bachelors Degree	Completion of Bachelor's Degree Undergraduate Major in Communication Disorders or related coursework if major is in another area	115 Program Credits relating to: <ul style="list-style-type: none"> <li>• Diagnostics &amp; testing</li> <li>• Hearing science</li> <li>• Amplification systems</li> <li>• Psychology</li> <li>• Hearing conservation</li> <li>• Clinical skills/residency</li> <li>• Research</li> </ul>	115	\$50,000-\$70,000 annually \$24-34 per hour

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<b>Communication Disorders</b> SEE: Speech Pathologist Audiologist	Improve accuracy of hearing or speech, evaluate hearing and speech problems, develop treatment programs to help clients adapt to hearing or speech problems.		4 years	General Education 33-39 credits	37 credits relating to: <ul style="list-style-type: none"> <li>• Speech, language &amp; hearing development &amp; disorders</li> <li>• Phonetics</li> <li>• Child language</li> <li>• Clinical &amp; diagnostic procedures</li> <li>• Anatomy &amp; physiology</li> <li>• Clinical skills</li> </ul>	124	This program is designed to prepare students for graduate study only
<b>Dietitian</b>	Responsible for nutritional care of patients through assessing nutritional needs and developing care plans to meet patient needs.	Intermediate Algebra or Trigonometry Advanced Biology Advanced Chemistry	4 years	General Education 33-39 credits to include: <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> </ul>	64-67 credits relating to: <ul style="list-style-type: none"> <li>• Food Safety</li> <li>• Food Production</li> <li>• Menu Planning</li> <li>• Medical Nutrition Therapy</li> <li>• Nutrition Education</li> <li>• Advanced chemistry</li> <li>• Field Work</li> </ul>	124	\$38,000-\$50,000 annually \$18-24 per hour
<b>Dental Assistant</b> Associate in Applied Science/Advanced Certificate	Prepare instrument trays, process x-rays, schedule appointments, maintain charts & supplies, infection control of environment & equipment	Basic Math Basic Biology	1 year	General Education 17-23 credits	45 credits of professional education related to: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Clinical Classes</li> <li>• Radiology Dental</li> <li>• Medical emergencies</li> <li>• Office Management</li> <li>• Dental Internships</li> <li>• Expanded Dental Functions</li> </ul>	62-68	\$19,000-\$31,000 annually \$9-15 per hour

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<b>Dental Assistant</b> Certified or Registered Transition Track	Prepare instrument trays, process x-rays, schedule appointments, maintain charts & supplies, infection control of environment & equipment	Basic Math Basic Biology	1 year	Certified Dental Assistant (CDA)  Experience: awarded 30 credits	15 program credits related to: <ul style="list-style-type: none"> <li>• Interpersonal Com. or Applied Psychology</li> <li>• Lifelong Wellness</li> <li>• CDA Practical</li> <li>• Expanded Dental Functions</li> </ul>	45	Not Available
<b>Dental Hygienist</b> Associate in Applied Science	Perform oral health assessments, take & process x-rays, provide services to prevent gum disease & cavities, provide nutritional counseling	Basic Algebra Geometry is helpful Basic Biology a must Basic Chemistry helpful Advanced Biology helpful	2 years	General Education 30-39 credits including Sciences	69 Program Credits related to: <ul style="list-style-type: none"> <li>• Dental Assessments</li> <li>• Dental Products</li> <li>• Dental Radiology</li> <li>• Oral Health</li> <li>• Pharmacology</li> <li>• Periodontics</li> <li>• Clinical Dental Hygiene</li> </ul>	99-106	annually per hour
<b>Dentist</b> Doctorate or higher	Diagnose & treat problems of teeth and mouth	Advanced Math including algebra & calculus  Advanced Science including biology, A & P, Chemistry	6-8 years	Pre-Dentistry 36-38 hours of English, composition, biological sciences, physics	Ph.D. Program with studies in: <ul style="list-style-type: none"> <li>• Oral Health Science Care</li> <li>• School of Dentistry Graduate core courses</li> <li>• Advanced Courses: 3-500 courses in soc, sciences, etc.</li> <li>• Cognate Courses</li> <li>• Dissertation additional courses including research</li> </ul>		\$80,000-\$120,000
<b>Emergency Medical Technician(EMT)/ Paramedic</b>	Provides emergent and non-emergent treatment and transportation of sick and injured patients in the pre-hospital setting.	Basic Math	1 semester	Medical Terminology – 2 credits	12 Program Credits related to: <ul style="list-style-type: none"> <li>• Medical Emergencies</li> <li>• EMT Courses</li> <li>• EMT Field experiences</li> </ul>	14	EMT \$9.50-\$15.25  Paramedic \$12.90-\$19.80

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<b>Exercise Science</b>	Minor program designed to for persons who plan to work in an area related to their major field of study, with emphasis in fitness evaluation & exercise leadership.	Intermediate Algebra Biology Chemistry Anatomy & Physiology: recommended	4 years	General Education 33-39 credits to include: <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Psychology</li> </ul>	55 credits relating to: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• First Aid</li> <li>• ECG Assessment</li> <li>• Obesity</li> <li>• Health risk identification &amp; management</li> <li>• Stress test administration &amp; interpretation</li> <li>• Internship</li> </ul>	124	\$30,000-\$45,000 annually \$14-22 per hour
<b>Health Care Services Administration</b> Bachelors/Masters Degree	Manage hospitals, clinics, HMO's & physician group practices, interpret health care policies, develop budgets, evaluate personnel	Intermediate Algebra Accounting Biology Chemistry	4 years	General Education 33-39 credits 3 credits in Economics	48 credits relating to: <ul style="list-style-type: none"> <li>• Accounting</li> <li>• Economics</li> <li>• Managing Health Populations</li> <li>• Statistics</li> <li>• Marketing</li> <li>• Legal aspects of Health Care</li> <li>• Technology in Health Care</li> <li>• Internship</li> </ul>	124	\$45,000-\$80,000 annually \$22-38 per hour
<b>Health Fitness Education and Promotion</b> Associate in Applied Science Degree	Preparation to work in the field of exercise science to promote fitness & the prevention & rehabilitation of chronic disease.	Intermediate Algebra Basic & Advanced Biology Basic Chemistry	1 year	General Education 28-35 credits	35 Program Credits related to: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Life Long Wellness</li> <li>• Nutrition</li> <li>• Response to Emergencies</li> <li>• Exercise Physiology</li> <li>• Health Fitness</li> <li>• Strength Training</li> </ul>	66-73	\$20,000-\$50,000 annually \$10-24 per hour

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<b>Health Information Technologist</b>	Compiles, processes, and maintains medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards.	Basic Math	2 years	General Education	2-year health information program relating to: <ul style="list-style-type: none"> <li>• Medical terminology</li> <li>• Anatomy</li> <li>• Health information legalities</li> <li>• Physiology</li> <li>• Statistics</li> <li>• Database management</li> <li>• Pathology</li> <li>• Pharmacology</li> </ul>		\$16,000 \$30,000 annually \$8–14 per hour
<b>Health Unit Coordinator/Unit Secretary/Nursing Clerk</b>	Completes work assignments during scheduled time period while maintaining a work environment conducive to efficient unit operation. Maintains accurate and complete records, charts, files and unit supplies.	High School Diploma	240 hours (11 weeks)	High School Diploma/GED COMPASS Reading 81 Writing 38 Math 26	Health Unit Coordinator	None (non-credit)	\$20,000–\$29,000 annually \$10–14 per hour
<b>Massage Therapist</b> Post Associate Certificate/Certificate of Achievement	Relaxes and treats people by manipulating their muscles and soft tissue	Intermediate algebra or higher, anatomy and physiology recommended	1 semester	Program designed for graduates from: <ul style="list-style-type: none"> <li>• PTA</li> <li>• OTR</li> <li>• Licensed PT</li> <li>• RN</li> <li>• LPN</li> </ul>	6 credits: for Certificate of Achievement: after LPN: MTP 301: Manual Technique I OR 6 credits: for Post Associate Certificate: MTP 301: Manual Technique I	6	Not Available

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<b>Medical Assistant</b> Associate Degree or Assistant Program	Perform administrative & certain clinical duties under the direction of a physician, scheduling appointments, maintaining medical records, billing & coding for insurance purposes, taking and recording vital signs & medical histories, preparing patients for examination, drawing blood, & administering medications as directed by physician.	Basic Math to Intermediate	Certificate: 71 credit hrs. Associates: 93 credit hrs.	Medical Terminology Basic Human Anatomy Composition I & II Word Processing Electronic Spreadsheets General Psychology Oral Communication Work Place Communication Business Math	64 credits related to <ul style="list-style-type: none"> <li>• Medical Office Procedures</li> <li>• Medical Office Finances</li> <li>• Medical Office Billing &amp; Coding</li> <li>• First Aide</li> <li>• General Medical Procedures</li> </ul>		\$18,700–\$27,000 annually \$9–13 per hour
<b>Medical Illustration</b>	Illustrates medical conditions, anatomy in text books.	College Prep Math & College Prep Science	2–3 years after Bachelor's Degree	Bachelor's Degree combining courses in art & pre-medicine. Individuals applying to medical illustration schools must present a portfolio of drawings in pen and ink and water color.	Only 5 schools nationwide are accredited to offer the program (Medical College of GA, U of IL College of Medicine, Johns Hopkins University School of Medicine, U of MI Medical School, U of TX Health Science Center)  Curriculum includes: <ul style="list-style-type: none"> <li>• Photography</li> <li>• Anatomical Sketching</li> <li>• Multimedia</li> <li>• Human Anatomy</li> <li>• Pathology</li> <li>• Medical Illustration</li> <li>• Project</li> </ul>		Not Available
<b>Medical Laboratory Technician</b> Associate's Degree	Prepares specimens and operates automated analyzers or performs manual tests to help detect, diagnose, and treat diseases.	Biology Chemistry Anatomy Algebra			Refer to local college for courses		\$21,000–\$41,000 annually \$10–20 per hour

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<b>Medical Laboratory Technologist</b> Bachelor's Degree	Performs clinical procedures for chemical, microscopic and/or bacteriologic tests in chemistry, microbiology, hematology, serology, urinalysis, & blood banking to obtain data for use in diagnosis/treatment of disease.	Intermediate Algebra Trigonometry ACT of 19 Biology Chemistry	AA-79 hours 5 semesters	Fundamentals of Algebra Chemistry Biology Anatomy & Physiology	79 Credits <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Microbiology</li> <li>• Various Clinical Courses</li> <li>• Safety Issues</li> <li>• Clinical Pathology</li> <li>• Clinical Placement</li> </ul>	79	\$35,000–\$50,000 annually \$17–24 per hour
<b>Medical Technologist</b>	Collects and analyzes medical specimens. Perform complex tests and supervises other workers. Consult with physicians on test results. Some technologists specialize in areas such as blood bank, microbiology and research.	Intermediate Algebra Trigonometry ACT of 19 Biology Chemistry	BA-139	Fundamentals of Algebra Chemistry Biology Anatomy & Physiology	MLT Requirements Plus Advanced Course in <ul style="list-style-type: none"> <li>• Hematology, Microbiology,</li> <li>• Immunology</li> <li>• Supervisory Practices</li> </ul>	139	Not Available
<b>Medical Transcriptionist</b>	Transcribe dictation for physicians and other medical professionals.	English & Writing College prep Science Word Processing	High School/GED	High School/GED	Course Training or Training on the Job		\$20,800–\$29,000 annually \$10–14 per hour
<b>Nuclear Medicine Technologist</b> Bachelor's Degree	Administers unstable atoms that emit radiation spontaneously (radionuclide) that are used to diagnose and treat disease. Operates radiation detection and imaging equipment.	Intermediate Algebra Trigonometry ACT of 19 Biology Chemistry	6 semesters	Fundamentals of Algebra Chemistry Biology Anatomy & Physiology	69-72 credits Core Educational Courses <ul style="list-style-type: none"> <li>• Chemistry</li> <li>• Nuclear Median</li> <li>• Medical Terminology</li> <li>• Imaging Procedures</li> <li>• Cross Sectional Imaging</li> </ul>	69-72	\$40,000-\$50,000 annually \$19-24 per hour

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<b>Nursing: Assistant/Aide</b>	Completes unit assignments during scheduled time period, meeting the criteria designated by the Nursing Manager/Resource Manager. Prepares patients' rooms for occupancy after discharge.	Basic Math Basic Anatomy Basic Physiology Basic Nutrition Basic Infection Control Basic Personal Care	6 months-1 year	General Education	Certified Program		\$18,700–\$27,000 annually \$9–14 per hour
<b>Nursing: Practical Advanced Certificate</b>	Performs a variety of integrated functions within the scope of their license using the nursing process, under the direction of the registered nurse.		1 year	General Education 16-20 credits	29 Program Credits related to: • Fundamentals of Practical Nursing • Care of Adult I • Care of Adult II • Maternal Child Care Nursing	45-49	\$25,000–\$33,000 annually \$1216 per hour
<b>Nursing: LPN/Licensed Paramedic to RN</b> <i>Associate in Applied Science Degree in Nursing</i>	Performs a variety of integrated functions within the scope of their license using the nursing process, under the direction of the registered nurse.	Basic to Intermediate Algebra Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basic Physics	16 months	General Education 36-43 credits including Sciences	29 Program Credits related to: • Transition courses in Skills, Nursing Theory & Role & Function of the RN • Med-Surg for the LPN Licensed • Paramedic • OB-PEDS-Mental Health • Advanced Med-Surg & Nursing • Management	63-72	\$37,000-\$56,000 annually \$56,000 annually \$18-27 per hour
<b>Nursing: RN in Associates (2 yr)</b> <i>Applied Science Degree in Nursing</i>	Collaborates with physician to provide a plan of care that will return the patient to optimal health. Most RN's are staff nurses, who provide bedside nursing care & carry out medical regimens. They also may supervise LPN's and nursing aides.	Basic to Intermediate Algebra Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry	FT: 4 semesters PT: 8 semesters	General Education 37-43 credits including Sciences	36 Program Credits related to: • Nursing Fundamentals • OB-PEDS-Mental Health Nursing • Basic Med-Surg Nursing • Advanced Med-Surg & Nursing • Management	72-80	\$37,000 \$56,000 annually \$18–27 per hour

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<b>Nursing: RN</b> Bachelor (4 yr)	Collaborates with physician to provide a plan of care that will return the patient to optimal health. Most RN's are staff nurses, who provide beside nursing care & carry out medical regiments. They also may supervise LPN's and nursing aides.	Basic to Intermediate Algebra Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basic Physics	See Nursing Counselor	Psychology Math Biology Chemistry English Communication Anatomy & Physiology	Program Credits related to: <ul style="list-style-type: none"> <li>• Nursing Fundamentals</li> <li>• Advanced Nursing Courses</li> <li>• OB-PEDS-Mental Health Nursing</li> <li>• Basic Med-Surg Nursing</li> <li>• Advanced Med-Surg &amp; Nursing Management</li> <li>• Community Nursing Classes</li> <li>• Roles, Trends, Issues Classes</li> <li>• Research</li> </ul> Refer to College/University Website	124	\$37,000 \$56,000 annually \$18-27 per hour
<b>Nursing: Practitioner</b> Masters Degree	Performs health assessments and health counseling, treats common acute illnesses, does research	Basic Physics Algebra Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basic Physics	6 years	General Education credits including Sciences	Program Credits same as 2 & 4 yr RN programs plus: <ul style="list-style-type: none"> <li>• Extensive Advanced Classes</li> <li>• Nursing Research</li> <li>• Theory Based Nursing Practice</li> <li>• Extensive Clinical Practicum</li> <li>• Advanced Assessment Skill Building</li> <li>• Extensive Pharmacology</li> </ul>		\$56,000- \$83,000 annually \$27-40 per hour
<b>Nursing: RN - CRNA (Nurse Anesthetist)</b> Masters Degree	Performs physical assessment, provides preoperative teaching, administers anesthesia, oversees recovery from anesthesia.	Basic to Intermediate Algebra Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basic Physics		Refer to Wayne State University and University of Michigan - Flint	Refer to: Wayne State University. University of Michigan- Flint		\$80,000- \$120,000 annually \$38-58 per hour

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<b>Occupational Therapist</b> M.S.	Works with individuals having difficulty performing daily tasks (dressing, bathing, meal preparation, household chores, etc.) as the result of surgery/illness.	Intermediate Algebra or Trigonometry Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basis Physics	2 years plus internship after Bachelor's Degree	Completion of Bachelor's Degree Prerequisites include: • Computer Literacy • Developmental Psychology • English & Writing • Medial Terminology • Biological Sciences • Anatomy & Physiology • Social Sciences	68-70 credits relating to: • Occupational Therapist Processes • Kinesiology • Neurology • Disabling Conditions • Research • Assistive Technology • Thesis/Project	68-70	\$42,000 \$56,000 annually \$20–26 per hour
<b>Occupational Therapist Assistant</b> Associates Degree	Works under direction of an occupational therapist, teaches workers skills that will enable them to return to work, teaches people with learning or physical disabilities to become more independent.	Intermediate Algebra or Trigonometry Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basis Physics	2 years –Associates Degree or Certificate	High school courses in art, math, science English and history At least a C average	70 credits relating to: • Anatomy & Physiology • Psychology • Disease Process • Human Growth & Development • Mental Health • Health Care Issues • Practicum	70	\$27,000 \$39,500 annually \$13–19 per hour
<b>Occupational Therapist Aide</b> High School Degree	Works under direction of an occupational therapist, teaches workers skills that will enable them to return to work, teaches people with learning or physical disabilities to become more independent.	Basic Math Basic Anatomy Basic Physiology Basic Nutrition Basic Infection Control Basic Personal Care	High School/ GED	High school diploma	Training on the job.		\$16,000- \$26,000 annually \$7-12 per hour
<b>Optometrist and other Optometry careers</b>	Perform eye examinations, prescribe & fit glasses & contact lenses, treat eye diseases & injuries, care for patient before & after cataract or laser surgery.				Contact Ferris State University		\$80,000- \$120,000 annually \$38-58 per hour

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<b>Personal Trainer</b>	Assist apparently healthy individuals and those with controlled diseases/ ailments in exercising safely & achieving higher levels of fitness or athletic performance. Client consultation & assessment, fitness program development, exercise techniques, safety procedures, & legal issues. Upon completion of program, eligible to sit for the American Council on Exercise (ACE) National Certification Exam.	Algebra Biology Anatomy Physiology Chemistry	24 credit hours	Personal Trainer/Health Fitness Instructor — Biology 101 or Biology 140	24 credits related to: • Anatomy • Physiology • Response to emergencies • Knowledge related to nutrition • Knowledge related to strength training • Health fitness management & promotion • Lifelong Wellness • Oral Communications for Manager		\$40-100 per one-hour session
<b>Pharmacist</b> Doctorate	Responsible for all aspects of medication, i.e., supply, distribution, quality assurance, drug/dosage for patients, drug information, pharmacokinetics dosing, sterile product manufacturing, narcotic control, drug utilization review. Educate, advise, evaluate patients and other health care professionals.	Math Biology Chemistry	Minimum 6 years		196 credits relating to: See Ferris State University		\$72,800–\$89,000 annually \$35–43 per hour
<b>Pharmacy Tech</b> Training Program/ Associates Degree	Aids the pharmacist in all technical aspects of drug distribution.	High School Diploma	90 hours (15 weeks)	High School Diploma or GED	Pharmacy Technician COMPASS test scores • Reading 81 • Writing 38 • Math 26		\$21,000–\$27,000 annually \$10-14 per hour
<b>Phlebotomist</b>	Collects or assists in collecting specimens. Logs data, retrieves patient's results, requisitions supplies.	Basic Math Basic Biology	1 year	High School Diploma or GED	Training program — Certificate of Completion	Certificate	\$18,700–\$25,000 annually \$9–12 per hour

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<b>Physical Education — K-12 Teaching</b>	Physical education teaching, athletic coaching, sport management, athletic administration, exercise science.	Algebra or higher Biology	4.5–5 years	General Education 33-42 credits	31 credits of professional education including student teaching 53 credits related to: <ul style="list-style-type: none"> <li>• Sport Fundamentals</li> <li>• Physical Fitness</li> <li>• Education Programming</li> <li>• Motor Skills</li> <li>• Anatomy &amp; Physiology</li> <li>• Dance</li> <li>• Teaching Methods &amp; Evaluation</li> </ul>	124-173	\$30,000–\$45,000 annually \$14–22 per hour
<b>Physical Therapist Assistant</b> <i>Associate in Applied Science Degree</i>	Treats patients under the guidance of a registered physical therapist.	Math skills through Algebra: recommended Biology: recommended Chemistry: recommended Physics: recommended Anatomy related courses: highly recommended	2 or more years	General Education 19-27 credits including Sciences	50 Program Credits related to: <ul style="list-style-type: none"> <li>• Clinical Anatomies</li> <li>• Therapeutic Exercise</li> <li>• Clinical Medicine</li> <li>• PTA Clinical</li> <li>• Modalities</li> <li>• Human Growth &amp; Development</li> <li>• Measurement Techniques</li> <li>• Occupational Wellness</li> </ul>	79-84	\$29,000–\$35,000 annually \$14–17 per hour
<b>Physical Therapist</b> <i>D.P.T.</i>	Provides services that help restore function, improve mobility, relieve pain, and prevent or limit permanent physical disability of patients suffering from injuries or disease.	Intermediate Algebra or Trigonometry Advanced Biology Advanced Anatomy Advanced Physiology Basic Chemistry Basis Physics	3 years after Bachelor's Degree	Completion of Bachelor's Degree 45 credits including: <ul style="list-style-type: none"> <li>• Biology</li> <li>• Anatomy &amp; Physiology</li> <li>• Genetics</li> <li>• Physics</li> <li>• Chemistry</li> <li>• Intermediate Algebra</li> <li>• Statistics</li> <li>• Psychology</li> </ul>	130-131 credits related to: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Examination &amp; Diagnosis</li> <li>• Clinical Path physiology</li> <li>• Motor Learning</li> <li>• Patient Care</li> <li>• Therapeutic Modalities</li> <li>• Clinical Skills</li> <li>• Research</li> <li>• Clinical Experience</li> </ul>	130-131	\$48,000–\$62,000 annually \$23–30 per hour

Health Occupations Program	Description	Level Of Math & Science Recommended <i>In High School And/or Career Centers</i>	Length Of Actual Program <i>After Pre-requisites</i>	Pre-requisite Courses <i>List of Required &amp; Approved Courses in Catalog</i>	Program Courses <i>List of Required &amp; Approved Courses in Catalog</i>	Total # Of Credits	Average Salary <i>Based On Industry Demand</i>
<b>Physician</b> M.D., D.O. And Subspecialties i.e., Psychiatrist Pathologist Anesthesiologist Podiatrist Many More...	Diagnose illnesses and prescribe and administer treatment for people suffering from injury or disease, using accepted methods of treatment, including drugs and surgery.	Algebra Trigonometry Advanced Biology Advanced Anatomy Advanced Physiology Advanced Chemistry Advanced Physics	4 years undergrad. 4 years medical school 3-8 years internship & residency	<ul style="list-style-type: none"> <li>• Calculus</li> <li>• Organic Chemistry</li> <li>• Physics</li> <li>• Chemistry</li> <li>• Biology</li> <li>• Anatomy/Physiology</li> <li>• Stats</li> <li>• English</li> <li>• Social Services</li> </ul>	Programs Credits related to: <ul style="list-style-type: none"> <li>• Anatomy</li> <li>• Biochemistry</li> <li>• Pharmacology</li> <li>• Pathology</li> <li>• Microbiology</li> <li>• Embryology</li> </ul> Clinical includes: <ul style="list-style-type: none"> <li>• Physical Diagnosis</li> <li>• Disease/Systems</li> </ul>		In excess of \$100,000 per year
<b>Physician Assistant</b>	Provides health care services under the supervision of physicians. PAs are formally trained to provide diagnostic, therapeutic and preventive health care services, as delegated by a physician.	Intermediate Algebra or Trigonometry Advanced Biology Advanced Anatomy Advanced Physiology Advanced Chemistry	27 months after Bachelor's Degree	Completion of Bachelor's Degree 30 credits including: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Path physiology</li> <li>• Introductory Chemistry</li> <li>• Organic Chemistry</li> <li>• Biochemistry</li> <li>• Psychology</li> <li>• Statistics</li> </ul>	120 credits related to: <ul style="list-style-type: none"> <li>• Anatomy &amp; Physiology</li> <li>• Disease</li> <li>• Pharmacology</li> <li>• Diagnosis</li> <li>• Clinical Medicine</li> <li>• OB/GYN</li> <li>• Physical Examination</li> <li>• Surgery</li> <li>• Emergency</li> <li>• Clinical Residency</li> </ul>	120	\$60,000–\$83,000 annually \$29–40 per hour
<b>Psychology, Clinical</b> Ph.D. or Psy.D	Study normal & abnormal behaviors, treat patients with mental, emotional & behavioral problems, help people manage stress.	Algebra Trigonometry Advanced Biology Advanced Anatomy Advanced Physiology Advanced Chemistry Advanced Physics	5–7 years plus internship after Bachelor's Degree	Completion of Bachelor's Degree in Psychology	108 credits relating to: <ul style="list-style-type: none"> <li>• Measurement</li> <li>• Assessment</li> <li>• Intervention</li> <li>• Psychopathology</li> <li>• Personality</li> <li>• Physiology</li> <li>• Ethics &amp; Professional Issues</li> <li>• Dissertation &amp; Internship</li> </ul>	108	\$30,000–\$80,000 annually \$14-38 per hour

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
<b>Public Health Education</b>	Not limited to: educating public regarding chronic & communicable disease prevention, promote wellness, assess, plan & implement programs within communities, organize communities regarding health issues.	Algebra or higher Biology Chemistry	4 years	General Education 33-39 credits 27 credits in pre-requisites including: <ul style="list-style-type: none"> <li>• Personal Health</li> <li>• Anatomy &amp; Physiology</li> <li>• Psychology</li> <li>• Sociology</li> <li>• Intermediate Algebra</li> <li>• Chemistry</li> </ul>	63 Credits related to: <ul style="list-style-type: none"> <li>• Community Health</li> <li>• Education Methods</li> <li>• Education assessment, Program</li> <li>• Planning &amp; Evaluation</li> <li>• Epidemiology</li> <li>• Statistics</li> <li>• Health Services Administration</li> <li>• Internship</li> </ul>	124	\$30,000–\$40,000 annually \$14–19 per hour
<b>Radiation Therapist</b> Bachelor's Degree	Provides radiation therapy to patients as prescribed by a radiologist according to established practices & standards. Duties may include reviewing prescription & diagnosis, acting as liaison with physician & supportive care personnel, preparing equipment, maintaining records, reports, and files. May assist in dosimetry procedures & tumor localization.	College prep Math College prep Science Anatomy Physiology	4 years	General Education 19-27 credits including Sciences	64 Program Credits related to: <ul style="list-style-type: none"> <li>• Medical Imaging</li> <li>• Radiography</li> <li>• Patient Care &amp; Management</li> <li>• Clinical &amp; Seminars</li> <li>• Radiographic Procedures</li> <li>• Occupational Wellness</li> <li>• Pharmacology in Imaging</li> <li>• Radiation Physics</li> <li>• Medical Terminology</li> </ul>	83-91	\$41,600-\$52,000 annually \$20-\$25 per hour
<b>Radiology Technologists &amp; Technicians</b> Associate in Applied Science Degree	Prepares and operates x-ray equipment and positions patient to produce radiographs for diagnosis. Develops film.	Basic Algebra Basic & Advanced Biology Trigonometry ACT of 19 Biology Chemistry	2 years	General Education 19-27 credits including Sciences	64 Program Credits related to: <ul style="list-style-type: none"> <li>• Medical Imaging</li> <li>• Radiography</li> <li>• Patient Care &amp; Management</li> <li>• Clinical &amp; Seminars</li> <li>• Radiographic Procedures</li> <li>• Occupational Wellness</li> <li>• Pharmacology in Imaging</li> <li>• Radiation Physics</li> </ul>	83-91	\$31,000–\$44,000 annually \$15–\$21 per hour

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
<b>Respiratory Therapist</b>  Associates Degree or Bachelor's Degree Registered State License Required	Cares for patients with deficiencies & abnormalities of the cardiopulmonary system. Sees a diverse group of patients ranging from newborn & pediatric to adult and elderly. Disease states or conditions often requiring respiratory care include asthma, emphysema, chronic obstructive lung disease, pneumonia, cystic fibrosis, infant respiratory distress syndrome, & conditions brought on by shock, trauma, or postoperative surgical complications. May work in hospital, in the home, rehabilitation agencies, nursing homes, clinics, sleep centers, emergency transport teams, physician offices.	High School Algebra Intermediate Algebra Trigonometry Basic & Advanced Biology Chemistry Strong background in biology and chemistry suggested.	20 months	General Education 23-32 credits including Sciences Fundamentals of Algebra Chemistry Biology Anatomy & Physiology	62 Program Credits related to: <ul style="list-style-type: none"> <li>• Basic Respiratory Care</li> <li>• Clinical &amp; Seminars</li> <li>• Basic &amp; Advanced Airway &amp; Ventilators</li> <li>• Cardiovascular Evaluation &amp; Monitoring</li> <li>• Cardiopulmonary Path physiology</li> <li>• Advanced Respiratory</li> <li>• Pharmacology</li> </ul>	85-94	\$30,000–\$46,000 annually \$14–22 per hour
<b>Respiratory Technician</b>	Works in consultation with respiratory therapist and/or physician, administers medications, performs various types of therapeutic modalities and diagnostic testing for and of the cardiopulmonary system, responds to arrest and emergency situations and provides CPR and life support systems.	Basic Math Basic Sciences	High School/ GED		Training Program	79	\$21,000 \$31,000 annually \$10–15 per hour

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
<b>School Health Education — K-12 Teaching</b>	Teaches students about nutrition, personal growth, substance abuse prevention, first aide, environmental health, physical fitness, human sexuality and disease prevention and control	Algebra or higher Biology Chemistry Anatomy: recommended	4.5–5 years	General Education 33-42 credits to include: <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Sociology</li> </ul>	31 credits of professional education including student teaching 51 credits related to: <ul style="list-style-type: none"> <li>• Personal Health</li> <li>• Health Foundations</li> <li>• Anatomy &amp; Physiology</li> <li>• Drugs, Sexuality, First Aid</li> <li>• Teaching Methods</li> <li>• Path physiology</li> <li>• Mental Health</li> <li>• Obesity</li> <li>• Death Education, Suicide Prevention</li> <li>• Health Risk Identification</li> </ul>	124-173	\$30,000–\$50,000 annually \$14–24 per hour
<b>Social Worker M.S.W.</b>	Provides individual family and group counseling to patient/significant others relative to illness adjustment, loss and grief, crisis, stress management, etc. Coordinates discharge planning.	Psychology Basic Math Basic Sciences	2 years plus one year internship after Bachelor's Degree	Completion of Bachelor's Degree (BSW) Prerequisites include: <ul style="list-style-type: none"> <li>• Psychology</li> <li>• Biology</li> <li>• Sociology</li> <li>• Economics</li> <li>• Political Science</li> <li>• Second Language Helpful</li> </ul>	60 credits relating to: <ul style="list-style-type: none"> <li>• Methods</li> <li>• Human Behavior &amp; the Social Environment</li> <li>• Well-being &amp; Change Through the Life Course</li> <li>• Social Welfare Policy &amp; Services</li> <li>• Research &amp; Evaluation</li> <li>• Field Instruction/Internship</li> </ul>	60	\$30,000–\$40,000 annually \$14–19 per hour

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
<b>Sonographer (Diagnostic Medical)</b> Associate in Applied Science Degree/ Advanced Certificate	Use special equipment to direct nonionizing, high frequency sound waves into areas of the patient's body. They operate the equipment, which collects reflected echoes and forms an image that may be videotaped, transmitted, or photographed for interpretation and diagnosis by a physician.	Basic Algebra Basic & Advanced Biology Applied Physics	2 years	General Education 31-43 credits including the Sciences  For Certificate, less General Education credits	67-73 Program Credits for Certificate  79-87 Program Credits for Associate Degree  Both program Credits relate to: <ul style="list-style-type: none"> <li>• Sonography for Abdomen, OB/GYN, Ultrasound Physics, OB/GYN, Neurological &amp; Vascular</li> <li>• AttacNeurological &amp; Vascular</li> <li>• Ultrasound Physics &amp; Instrumentation</li> <li>• Ultrasound Scanning</li> <li>• Clinical &amp; Seminars</li> <li>• Occupational Wellness</li> </ul>	67-73 for Certificate  79-87 for Associate Degree	\$35,000–\$52,000 annually  \$17–25 per hour
<b>Speech/Language Pathologist</b> Masters Degree	Evaluates and treats individuals with communication, understanding language or swallowing difficulty, teach alternative communication systems.	Algebra or higher Biology Chemistry Anatomy & Physiology: recommended	2 years  1 year clinical experience after degree completion	Completion of Bachelor's Degree  Undergraduate Major in Communication  Disorders or relation coursework if major in another area	56 credits relating to: <ul style="list-style-type: none"> <li>• Language &amp; Learning Disabilities</li> <li>• Motor Speech Disorders</li> <li>• Neurogenic Disorders</li> <li>• Phonetics</li> <li>• Adult &amp; Pediatric Disorders</li> <li>• Clinical Practicum</li> <li>• Internship or Thesis</li> </ul>	56	\$30,000–\$45,000 annually  \$14–22 per hour
<b>Speech/Language Assistant</b> Associate Degree	Assists with speech language screenings, follows treatment plans developed by therapist.	Algebra or higher Biology Chemistry Anatomy & Physiology: recommended	2 years– Associates Degree or Certificate	High school courses in art, math, science, English and history  At least a C average	Refer to Central Michigan University		\$20,000- \$30,000 annually  \$10-14 per hour

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
<b>Sports Studies</b>	Deals with injuries/illnesses in athletes, focus is on diagnosis & treatment and injury/disease prevention & management. Career can include athletic training, biomechanics, exercise physiology, physical therapy, nursing, sport psychology, and nutrition.	Algebra or higher Basic & Advanced Biology	4 years	General Education 33-39 credits	35 credits relating to: <ul style="list-style-type: none"> <li>• Physical Fitness</li> <li>• Social, Historical &amp; Global Issues in Sport</li> <li>• Sport Management</li> <li>• Accounting</li> <li>• Marketing</li> <li>• Economics</li> <li>• Facility Planning &amp; Design</li> <li>• Public Relations</li> <li>• Internship</li> </ul>	124	\$30,000–\$45,000 annually  \$14 – 22 per hour
<b>Surgical Technician</b> <i>Teachers of Visually Handicapped</i>	Act as the primary scrub person who handles the instruments, supplies and equipment during surgical procedures.	Basic Algebra Basic & Advanced Biology	1 year	General Education 33-39 credits including Sciences  For Certificate, less General Education credits	33 Program Credits related to: <ul style="list-style-type: none"> <li>• Pharmacology in the Operating Room</li> <li>• The Surgical Patient</li> <li>• Surgical Anatomy</li> <li>• Operative Procedures</li> <li>• Clinical &amp; Seminar</li> </ul>	55 for Certificate 66-72 for Associate Degree	\$27,000–\$37,000 annually  \$12–17 per hour
<b>Teachers of Visually Handicapped</b>					Refer to the School of the Blind in Flint, Michigan		Not Available
<b>Therapeutic Recreational Therapist</b> <i>Bachelor's Degree</i>	Use recreational activities to help people who are sick, disabled, or have other health conditions to improve their health, physical abilities, and quality of life, help patients achieve the best possible level of independence, help improve a person's social, physical, and mental health.	Intermediate Algebra or Trigonometry Biology Chemistry	4 years	General Education 33-39 credits  Prerequisites include: <ul style="list-style-type: none"> <li>• Psychology</li> <li>• Introduction to Recreation</li> <li>• Recreation for Special Populations</li> <li>• Recreational Activities Leadership</li> </ul>	39 Program Credits relating to: <ul style="list-style-type: none"> <li>• Developmental Psychology</li> <li>• Anatomy &amp; Physiology</li> <li>• Abnormal Psychology</li> <li>• Programming for T.R.</li> <li>• Physical &amp; Emotional Impairments</li> <li>• Gerontology</li> <li>• Clinical Internship</li> </ul>	124	\$25,000–\$60,000 annually  \$12–29 per hour

<b>Health Occupations Program</b>	<b>Description</b>	<b>Level Of Math &amp; Science Recommended</b> <i>In High School And/or Career Centers</i>	<b>Length Of Actual Program</b> <i>After Pre-requisites</i>	<b>Pre-requisite Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Program Courses</b> <i>List of Required &amp; Approved Courses in Catalog</i>	<b>Total # Of Credits</b>	<b>Average Salary</b> <i>Based On Industry Demand</i>
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Successfully met college credits may be earned through articulation at a High School/Career Center  
 (If school has Anatomy & Physiology, would add this to above required Biology level)  
 Funded by the Hospital Council of East Central Michigan and Michigan Department of Labor and Economic Growth.  
 This information researched by the Hospital Council of East Central Michigan's Regional Workforce Committee.  
 Information Provided by the East Central Michigan Health Care Regional Skills Alliance and Michigan Works!

