



Four Rivers Career Center
Health Science Innovation Academy
Career Cluster Program of Study
www.fourriverscc.org

Minimum Graduation Requirements		SUGGESTED COURSE OF HIGH SCHOOL STUDY							
It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.									
	Grade	English	Math	Science	Social Studies	Electives or Fine/Practical Arts	FRCC and Fine/Practical Arts	Medical Studies Focus Electives	Additional Learning Opportunities
S e c o n d a r y	9	ENGLISH I	PATH A: Algebra I Concepts I PATH B/C: Algebra I (Honors) Algebra II (Honors) Geometry	PATH A: Applied Biology PATH B/C: Biology I	<u>United States History</u>	PATH A/B/C: Food & Nutrition * Child Development I * Fine Art Choice PATH C: World Language	HEALTH & PE	PLTW Principles of Biomedical Science	School-Based: ☑ Career Research ☑ Job Shadowing ☑ Service Learning Project Community Based: ☑ Volunteer Assessments/Certifications: ☑ End of Course Exam Placement Assessments: ☑ ACT ☑ SAT Student Organizations: ☑ HOSA
	10	PATH A: English II PATH B/C: Honors English II (Pre AP)	PATH A/B: Geometry Concepts Geometry PATH C: (Honors) Algebra II (Honors) Geometry	PATH A: Applied Chem. Chemistry I PATH B/C: Chemistry I Honors Chem. Physics I	<u>World Studies</u>	Any elective listed above PATH A/B/C: Child Development II * Elective Choice PATH B/C: Anatomy & Physiology	PERSONAL FINANCE (1/2 CREDIT) (Required for graduation; may take during 10 th , 11 th , or 12 th grade)	PLTW Human Body Systems	
	11	PATH A: English III PATH B/C: English III Lit & Comp	PATH A: Algebra II Concepts Algebra II PATH B/C: Algebra II (CC) Pre-Calculus AP Statistics	PATH A: Applied Physics Physics I PATH B/C: Chemistry II Anatomy & Physiology (AP) Physics I AP Biology AP Chemistry	Path A/B: Government Social Studies Path C Social Studies AP US History CC Sociology CC Psychology	Any elective listed above PATH A/B: A+ Tutor * Lifetime Fitness I & II Weight Training * ACT Prep * PATH C: Psychology * Sociology *		PLTW Medical Interventions & PLTW Biomedical Innovation (Semester Block Scheduled Courses)	
	12	PATH A/B: (choose 2) • Contemporary Issues & Analysis • Creative Writing Novels • College & Career Writing PATH C: AP Lit & Comp CC Public Speaking CC Comp	PATH A: Algebra III Concepts PATH B: Math Analysis CC Algebra PATH C: AP Calculus (CC) Pre-Calculus AP Statistics	PATH A/B: Elective Choice Fine Art Choice Chemistry I Chemistry II Physics I Anatomy & Physiology PATH C: AP Biology AP Chemistry AP Physics	PATH A: Elective Choice Fine Art Choice PATH B/C: Elective Choice Psychology (1/2 credit) Sociology (1/2 credit) (CC) Psychology (1/2 credit) (CC) Sociology (1/2 credit) PATH C: World Language Fine Art choice Leadership Class	PATH A/B/C: Lifetime Fitness I & II Weight Training (1/2 credit) Lifetime Fitness I & II Weight Training (1/2 credit) Leadership Class PATH C: World Language Fine Art choice Leadership Class	HEALTH OCCUPATIONS @ FRCC High School Science Credit & ECC Medical Terminology Credit	*It is highly recommended for additional field experience to enroll in the Health Occupations @FRCC ←	

PATH A – OFF TO WORK CERTIFICATION

PATH B – ASSOCIATE'S DEGREE/PROFESSIONAL
PATH C – 4-YEAR DEGREE AND BEYOND

Academic Focus for Success at Four Rivers Career Center

F O C U S O N A C A D E M I C S	Core Academics		Physical/Health	Fine/Practical Arts	Professionalism
	Mathematics: <ul style="list-style-type: none"> Basic math Fractions Ratios for medication Metric conversions 24 hour clock Graphing vital signs Science: <ul style="list-style-type: none"> Anatomy and Physiology Microbiology Chemistry Physics All body systems Emphasis on illness/disease within systems 	English Language Arts : <ul style="list-style-type: none"> Technical writing Documentation Research Medical terminology Spelling is very important to reduce medicine and treatment errors Grammar Punctuation Social Studies : <ul style="list-style-type: none"> Legal issues in health care History of health care Government policies affecting health care Current events in health care 	<ul style="list-style-type: none"> Fine motor skills and hand/eye coordination for taking blood pressure, using dental tools, venipuncture Personal hygiene (no visible tattoos or artificial nails) Safety: <ul style="list-style-type: none"> Awareness of risks associated with working in health care: radiation, blood borne pathogens, infection control Body mechanics First aid 	<ul style="list-style-type: none"> Medical photography Humanistic care Using arts as therapy Music therapy in health care 	<ul style="list-style-type: none"> Reliable Motivated Work independently Follow Multi-step directions Prepared daily Teamwork Attention to detail Code of ethics Flexible Task oriented Punctual Professional attitude Professional communication Trade related professional attire Respectful and courteous Competent Enthusiastic Empathetic

Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelors Degree	Masters Degree or More
Dental Assistants Dental Laboratory Technicians Home Health Aides Medical Appliance Technicians Medical Assistants Medical Equipment Preparers Medical Secretaries Personal and Home Care Aides Pharmacy Aides Pharmacy Technicians Physical Therapist Aides Psychiatric Aides	Cardiovascular Technologists Dental Hygienists Emergency Medical Technicians Health Information Technicians Licensed Practical Nurses Medical Laboratory Technicians Medical Sonographers Medical Transcriptionists Nursing Assistants Occupational Therapist Assistants Physical Therapist Assistants Radiation Therapists Radiologic Technologists Registered Nurses Respiratory Therapists Surgical Technologists Veterinary Technologists and Technicians	Administrative Services Managers Athletic Trainers Biomedical Engineers Computer Programmers Computer Software Engineers, Applications Dietitians Health Educators Medical and Clinical Laboratory Technologists Medical Laboratory Technologists Occupational Health and Safety Specialists Orthotic and Prosthetic Specialists Petroleum Engineers Public Relations Specialists Recreational Therapists Registered Nurse Nurse Rehabilitation Counselors	Athletic Trainers, Physical and Occupational Therapists Biologists, Physicists, Hydrologists, Epidemiologists Clinical Psychologists and Mental Health Counselors Computer and Information Scientists, Research Dietitians and Nutritionists Farm and Home Management Advisors Health Specialties Teachers, Postsecondary Home Economics Teachers, Postsecondary Medical and Health Services Managers Medical Scientists, Except Epidemiologists Natural Sciences Mgrs, Zoologists and Wildlife Biologists Nurse Anesthetists and Physician Assistants Nurse Practitioner Orthotics and Prosthetics Pharmacists Speech-Language Pathologists Communications Teachers, Postsecondary Veterinarians

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