



**Fort Zumwalt East High School**  
**Program of Study (POS)**

**Career Cluster Plan of Study (Pathways: Therapeutic Services, Diagnostics Services, Health Informatics, Support Services, and Biotechnology Research and Development)**

This Career Cluster Plan of Study can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

Grade	English 4 credits	Math 3 credits (4 recommended)	Science 3 credits	Social Studies/ Sciences 3 credits	Other Required Courses, Recommended Electives, Career & Technical Courses and/or Degree Major Courses	Additional Learning Opportunities	SAMPLE Occupations Relating to this Cluster
<b>9</b>	English II/ Pre-AP English I	Algebra I Geometry Pre-AP Geom.	Physical Science Biology Pre-AP Biology	US History Pre-AP US History	PE / Health or Fine Arts Foreign Language, Career and Family Leadership, Intro to Leadership, Adv. Leadership, PLTW Principles of Biomed Sci	<b>Clubs:</b> FBLA, FCCLA, DECA, Key, NHS, STUCO	<b>Occupations Requiring Less than Baccalaureate Degree</b> ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Lab Technician ► Phlebotomist ► Radiographer ► Registered Nurse <b>Occupations Requiring Baccalaureate Degree</b> ► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist ► Toxicologist ► Veterinarian
<b>10</b>	English II/ Pre-AP English II	Geometry Pre-AP Geom. Algebra II Pre-AP Alg II	Biology Pre-AP Biology Chemistry Gen Physics Zoology Astron, Geology, Env Sci I/II	World History  AP World History	Personal Finance Foreign Language Sociology, Child Dev I, PLTW Human Body	<b>Athletics</b> <b>Summer Camps</b> <b>Job Shadow</b>	
<b>11</b>	American Literature/ Pre-AP American Literature/ AP Lang	Algebra II Pre-AP Alg II Algebra III Pre-Cal College Algebra	Chemistry, Gen Physics, Env I & II, ABC I, AP Biology, Earth Sci -Astron, Earth Sci-Geology, Zoology, AP Chemistry, Human A & P, AP Physics	Govt AP Govt AP W. Hist. AP US Hist.	Lewis and Clark Tech: Health Occupations Concepts Psych, General Psych, Social Problems, Child Dev II/III. PLTW Medical Interventions	<b>Volunteer</b> <b>Community Service</b> see <a href="http://www.communitycouncil.org">www.communitycouncil.org</a>  <b>Part-time Employment</b> <b>Entrepreneurship</b>	
<b>12</b>	Senior Lit AP Lit AP Lang (or 2 sem classes)	Algebra II. Algebra III, College Algebra Pre-AP Cal AP Calculus AP Statistics	See 11 <sup>th</sup> grade options ABC II		PLTW Biomedical Innovation	<b>Assessments:</b> PSAT ACT,SAT,ASVAB, MO Connections	

**Post Secondary**

For listing of Community Colleges, Tech Schools, and 4 year colleges: [www.missouriconnections.org](http://www.missouriconnections.org)

Military, On-the-Job Training, Apprenticeship



**Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.**

Sample Career Specialties/Occupations

<p>Acupuncturist Anesthesiologist/Assistant Anesthesia Technologist/Technician Art/Music/Dance Therapist(s) Athletic Trainer Audiologist Certified Nursing Assistant Chiropractor Chiropractic Assistant Dental Assistant/Hygienist Dental Lab Technician Dietitian/Nutritionist Dosimetrist EMT/Paramedic Endodontist Exercise Physiologist Home Health Aide Kinesiotherapist Licensed Practical Nurse Massage Therapist Medical Assistant Mental Health Counselor Naturopathic Doctor Nurse Anesthetist Nurse Midwife Nurse Practitioner Occupational Therapist/Assistant Oral Surgeon Orientation/Mobility Specialist Orthodontist Orthoptist Orthotist/Prosthetist/Technician Podiatrist Perfusionist Pharmacist Pharmacy Technician Physical Therapist/Assistant Physician (MD/DO) Physician Assistant Podiatrist Psychologist Psychiatrist Radiation Therapist Recreation Therapist Registered Nurse Rehabilitation Counselor Respiratory Therapist Speech-Language Therapist Surgical Technician Veterinarian Veterinarian Assistant/Technician Vision Rehabilitation Therapist Wellness Coach</p>	<p>Audiologist Blood Bank Technology Specialist Cardiovascular Technologist Clinical Lab Technician Clinical Laboratory/Technologist Computer Tomography (CT) Technologist Cytogenetic Technologist Cytotechnologist Dentist Diagnostic Medical Sonographer Electrocardiographic (ECG) Technician Electroneurodiagnostic Technologist Electronic Diagnostic (EEG) Technologist Exercise Physiologist Geneticist Geriatrician Histotechnician Histotechnologist Magnetic Resonance Technologist Mammographer Medical Technologist/ Clinical Laboratory Scientist Nuclear Medicine Technologist Optician Ophthalmologist Ophthalmic Assistant/Technologist Optometrist Pathologist Pathologists' Assistant Phlebotomist Polysomnographic Technologist Positron Emission Tomography (PET) Technologist Radiologic Technologist Radiologist Speech-Language Pathologist</p>	<p>Admitting Clerk Applied Researcher Compliance Technician Clinical Account Manager Clinical Account Technician Clinical Data Specialist Community Services Specialists Data Quality Manager Epidemiologist Ethicist Health Educator Health Information Mgmt. Administrator Health Information Mgmt. Technician Healthcare Access Manager Healthcare Administrator Healthcare Finance Informatician Information Privacy Officer Managed Care Contract Analyst Medical Coder Medical Historian Medical Illustrator Medical Information Technologist Medical Librarian Medical Transcriptionist Patient Account Manager Patient Account Technician Patient Advocate Patient Information Coordinator Project Manager Public Health Educator Quality Management Specialist Quality Data Analyst Research and Decision Support Specialist Reimbursement Specialist Risk Manager Unit Coordinator Utilization Manager Utilization Review Manager</p>	<p>Animal Behaviorist Biomedical/Clinical Engineer Biomedical/Clinical Technician Clinical Simulator Technician Central Service Manager Central Service Technician Community Health Worker Dietary Manager Dietetic Technician Environmental Health Advocate Environmental Health Practitioner Environmental Services/ Specialist Facilities Manager Food Safety Specialist Health Advocate Hospital Maintenance Engineer Industrial Hygienist Interpreter Marital, Couple, Family Counselor/Therapist Materials Manager Medical Health Counselor Mortician/ Funeral Director Nurse Educator Occupational Health Nurse Occupational Health &amp; Safety Expert Social Worker Transport Technician</p>	<p>Biochemist Bioinformatics Scientist Biomedical Chemist Biomedical Manufacturing Technician Biostatistician Cancer Registrar Cell Biologist Clinical Data Management Specialist Clinical Pharmacologist Clinical Trials Monitor Clinical Trials Research Coordinator Crime Scene Investigator Diagnostic Molecular Scientist Forensic Biologist Forensic Chemist Forensic Odontologist Forensic Pathologist Genetic Counselor Geneticist-Lab Assistant Lab Technician Medical Editor/Writer Microbiologist Molecular Biologist Nurse Researcher Packaging Technician Patent Lawyer Pharmaceutical/Clinical Project Manager Pharmaceutical Sales Representative Pharmaceutical Scientist Pharmacokineticist Pharmacologist Product Safety Scientist Process Development Scientist Processing Technician Quality Assurance Technician Quality Control Technician Regulatory Affairs Specialist Research Assistant Research Scientist Toxicologist</p>
---	---	---	---	---

Path-ways	<b>Therapeutic Services</b>	<b>Diagnostics Services</b>	<b>Health Informatics</b>	<b>Support Services</b>	<b>Biotechnology Research and Development</b>
-----------	-----------------------------	-----------------------------	---------------------------	-------------------------	---

Cluster K & S	<p><b>Cluster Knowledge and Skills</b></p> <p>◆ Academic Foundation ◆ Communications ◆ System ◆ Employability Skills ◆ Legal Responsibilities ◆ Ethics          ◆ Safety Practices ◆ Teamwork ◆ Health Maintenance Practices ◆ Technical Skills ◆ Information Technology Applications</p> <p>Revised July 2009 <a href="http://www.careerclusters.org">www.careerclusters.org</a></p>				
---------------	---	--	--	--	--