

NURSING PROGRAM OF STUDY MATRIX: MIDDLE -HIGH SCHOOL-POSTSECONDARY (FULL SEQUENCE)

This Career Program of Study can serve as a guide, along with other career planning materials, as learners continue along a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. The program of study should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements. Additional career exploration opportunities should also be offered at upper elementary grade levels to promote higher engagement and learner focus in subsequent years.

	Grade	English	Math	Science	Social Studies	Required Courses, Electives, and Learner Activities	Career and Technical Courses	Sample Occupations
Student Success Plans outlining career goals should be utilized through the advisement process.								Requiring on-the-job training or Industry-Recognized Credential <ul style="list-style-type: none"> • Certified Nursing Assistant • Geriatric Aide • Home Health Aide • Hospice Aide • Nurse Aide • Patient Care Technician
Middle School	7	ELA 7	Math 7	Science 7	Social Studies 7		Career Exploration	
	8	ELA 8	Math 8	Science 8	Social Studies 8		Employability Skills	
Courses with an asterisk () indicate the potential for exploring credit transfer opportunities with local community colleges*								
Secondary	9	ELA 9	Algebra I	NGSS Aligned Science 9	United States History	All programs of study should meet local and state high school graduation requirements and college entrance requirements. Participations in a CTSO are also important for developing appropriate skills and competencies.	Orientation to Health Occupations*	Requiring an Associate's Degree: <ul style="list-style-type: none"> • Licensed Practical Nurse • Critical Care Technician • Clinical Operations Coordinator Requiring a Bachelor's Degree: <ul style="list-style-type: none"> • Medical Case Manager • Nurse Consultant • Registered Nurse • Research Nurse Requiring an Advanced Degree: <ul style="list-style-type: none"> • Clinical Nurse Educator • Clinical Nurse Specialist • Director of Nursing • Family Nurse Practitioner • Nurse Anesthetist • Nurse Midwife • Psychiatric Nurse Practitioner • Public Health Nurse
	10	ELA 10	Geometry	NGSS Aligned Science 10	American Government		Health Occupations Introductory Skills	
	11	ELA 11	Algebra II	Biology* or AP Biology	World History or Economics		Medical Terminology*	
	12	Transitional English, or English Composition**†	TM QL & Statistics, Calculus*, or General Education Math**†	Chemistry*	Psychology*		Anatomy & Physiology for Health Sciences*	
Courses with a double asterisk () indicate courses that might have already been met with an appropriate dual credit agreement**								
Postsecondary	13	English Composition***†	General Education Math***†	Biology** General Chemistry** Anatomy & Physiology Microbiology	Psychology***†	All programs of study should meet learners' career goals with regards to required degrees, licenses, certifications or journey worker status. Participations in appropriate student organizations are also important for developing appropriate skills and competencies.	Continue required courses in learners' chosen area of specialization to complete the desired certification and/or credential.	
	14	Oral Communication†			Sociology†			
	15	Continue courses in learners' chosen area of specialization						
	16							

*AP Dual Credit Opportunities

**Skip to next course in sequence if accomplished through credit transfer opportunity

†Postsecondary Course Affiliated with IAI Code

CTE Course Codes, Titles, Definitions

State Codes	Course Title	Course Definitions
14001A001	Orientation to Health Occupations	The course should expose students to the variety of opportunities available within the health care industry (e.g., such as nursing, therapy, vision and dental care, administrative services, and lab technology), which should include classroom and community-based activities. The main purpose of this course is to assist students in further development of their self -concept and in matching personal abilities and interest to a tentative career choice. The suggested course content should provide in-depth information into health occupations careers and trends, the occupational and educational opportunities, and the educational, physical, emotional, and attitudinal requirements
14002A002	Health Occupations Introductory Skills	This course provides students with a core of knowledge of the health care industry and helps refine their health care -related knowledge and competencies/skills. Students will develop cognitive and effective skills and formulate a strong foundation for introductory skill development. Competencies taught usually include (but are not limited to) medical terminology; health care industry and culture; health care delivery practices; health care industry ethics; health professions licensure; emergency response; health care confidentiality; health care personnel and roles; health care sanitation; and health care rules and regulations as defined in the Illinois Recommended Technical and Essential Employability Competencies for College and Career Pathway Endorsements.
14154A001	Medical Terminology	Medical Terminology courses students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.
03053A001	Anatomy & Physiology for Health Sciences	Anatomy & Physiology for Health Sciences courses integrate microbiology, disease processes, growth and development, and genetics with anatomy and physiology of the body systems. Students investigate how to prevent, diagnose, and treat disease and various health conditions. Typically, these courses reinforce science, mathematics, communications, health, and social studies principles and relate them to health care.
14253A002	Introduction to Pathophysiology and Pharmacology	Introduction to Pathophysiology and Pharmacology courses present the concepts of homeostasis and disease processes. Course topics and experiences enable students to relate how the human body 's homeostasis is impacted by both disease and chemical substances, especially by the actions of drugs and other substances commonly used to treat diseases. Pathophysiology emphasizes various human body system disorders and the mechanisms of disease, including (but not limited to) fluid, electrolyte, and acid-base imbalances; pain; inflammation and healing; infection; and immunity. Pharmacology topics typically include (but are not limited to) the science of medication actions, sources, chemical properties, classification, uses, therapeutic effect, side-effects, adverse effects, and routes of administration. Hands-on activities, projects, and real-world problems are encouraged to attain complete comprehension.
14051A001	Nursing Assistant	The course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant under the direction of the registered nurse. The units of instruction should include the role of the nurse assistant while covering general health care topics; medical terminology; patients/clients and their environment; special feeding techniques; psychological support and, in long -term and terminal illness, death and dying (e.g., chronically ill, children, new mothers, and so on); and all other basic nursing skills. Topics covered typically include normal growth and development; feeding, transporting patients, hygiene, and disease prevention; basic pharmacology; first aid and CPR; observing and reporting; care of equipment and supplies; doctor, nurse, and patient relationships and roles; procedure and policies; medical and professional ethics; and care of various kinds of patients. In order to have an approved nurse assistant program (one in which the students are eligible to sit for the certifying exam), the program must be approved by the Illinois Department of Public Health and meet all applicable requirements contained in 77 Illinois Administrative Code Part 395.
14098A005	Nursing Assistant Workplace Experience	Nursing Assistant Workplace Experience courses provide students with work experience in fields related to nursing services. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

Additional Learning Opportunities Continuum

Early Career Opportunities Learning about work	Credit Transfer & WBL Opportunities	Industry Recognized Credentials	Student Organization
<input type="checkbox"/> Career Planning	<input type="checkbox"/> Dual Enrollment / Dual Credit	<input type="checkbox"/> Certification / License	<input type="checkbox"/> Business Professionals of America (BPA)
<input type="checkbox"/> Career Fairs	<input type="checkbox"/> Advanced Placement	<input type="checkbox"/> Certification / License	<input type="checkbox"/> Future Business Leaders of America (FBLA)
<input type="checkbox"/> Industry Speakers	<input type="checkbox"/> Articulated Credit	<input type="checkbox"/> Other	<input type="checkbox"/> Family, Career and Community Leaders of America (FCCLA)
<input type="checkbox"/> Informational Interviews	<input type="checkbox"/> Career-Related Service Learning		<input type="checkbox"/> Future Farmers of America - Illinois (FFA)
<input type="checkbox"/> Career Presentations	<input type="checkbox"/> School-Based Enterprise		<input type="checkbox"/> Future Health Professionals (HOSA)
<input type="checkbox"/> Worksite Tours	<input type="checkbox"/> Student-Led Enterprise		<input type="checkbox"/> Illinois DECA
<input type="checkbox"/> Cooperative Education	<input type="checkbox"/> Project-Based Learning		<input type="checkbox"/> Science Olympiad
<input type="checkbox"/> Job Shadow	<input type="checkbox"/> Internships		<input type="checkbox"/> Skills USA Illinois
<input type="checkbox"/> Simulated Skill Development	<input type="checkbox"/> Apprenticeships (i.e., youth, pre-registered, non-registered, research)		<input type="checkbox"/> Technology Student Association (TSA)
<input type="checkbox"/> Other	<input type="checkbox"/> Other		<input type="checkbox"/> Other
List Other:	List Other:		List Other:
			<input type="checkbox"/> Team-Based Challenge
			List Challenge:

Feeder Middle School(s):	
LEA Additional Graduation Requirements	