

HSHS ACADEMY



Health Sciences & Human Services

HSHS Career Pathways:

Education and Training

Government and Public Administration

Health Sciences

Human Services

Law, Public Safety, Corrections, & Security

Watch for these symbols in the course descriptions.

- The “pillars” by a course description indicates that the course offers college credit or potential college credit through AP, CLEP, or PLTW testing opportunities.
- The “star” by a course description indicates the course counts toward the AAHS “Arts” credit requirement for graduation.
- Practice CLEP tests are available in the College & Career Center to help determine your level of readiness to test. There is a \$85 fee for each CLEP test, plus a \$25 administrative fee. These fees are subject to change by The College Board and test centers.
- The ‘caps’ graphic by a course description reflects our membership in the CAPS (Center for Advanced Professional Studies) network of programs. This network enhances our Academies of Alexandria model. A ‘caps’ course involves a post-secondary partner and a business partner. Through our post-secondary partners, ‘caps’ coursework will allow students to earn both college and high school credit while working within the local partner business.

INFOGRAPHIC KEY



College Credit
Opportunity



Counts Toward
Arts Credit



CLEP

HSHS Career Pathways

Grade	Health Sciences	Education and Training	Government and Public Administration	Human Services	Law, Public Safety, Corrections and Security
12	<ul style="list-style-type: none"> • CAPS (Healthcare) • Organic Chemistry 	<ul style="list-style-type: none"> • CAPS (Teacher Education) 			
11,12	<ul style="list-style-type: none"> • Civic Engagement & Impact • College General Psychology • Emergency Medical Responder • Human Anatomy I • Human Anatomy II • Intro to Psychology • Nrs Assist/Hm Hlth Aide • Prevention & Care of Injuries 	<ul style="list-style-type: none"> • Civic Engagement & Impact • College General Psychology • Intro to Psychology • Prevention & Care of Injuries 	<ul style="list-style-type: none"> • Civic Engagement & Impact • College General Psychology • Intro to Psychology • Law & Civil Liberties 	<ul style="list-style-type: none"> • Civic Engagement & Impact • College General Psychology • Intro to Psychology • Law & Civil Liberties 	<ul style="list-style-type: none"> • Civic Engagement & Impact • College General Psychology • Emergency Medical Responder • Human Anatomy I • Human Anatomy II • Intro to Psychology • Law & Civil Liberties • Prevention & Care of Injuries
10,11,12	<ul style="list-style-type: none"> • Food, Science, Dietetics & Nutrition • Forensic Science • Human Development II • Social Issues in Human Services 	<ul style="list-style-type: none"> • Basics of Coaching and Officiating • Human Development II • Social Issues in Human Services 	<ul style="list-style-type: none"> • Citizens Academy II • Human Development II • Social Issues in Human Services 	<ul style="list-style-type: none"> • Citizens Academy II • Human Development II • Social Issues in Human Services 	<ul style="list-style-type: none"> • Citizens Academy II • Forensic Science • Human Development II • Social Issues in Human Services
9,10,11,12	<ul style="list-style-type: none"> • Health Careers • Human Development I • Human Service Careers 	<ul style="list-style-type: none"> • Human Development I • Human Service Careers 	<ul style="list-style-type: none"> • Citizens Academy • Human Development I • Human Service Careers 	<ul style="list-style-type: none"> • Citizens Academy • Human Development I • Human Service Careers 	<ul style="list-style-type: none"> • Citizens Academy • Human Development I • Human Service Careers

HSHS ACADEMY ADVISORY BOARD

Claire Anderson, Academy Coach
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BASICS OF COACHING AND OFFICIATING

Course Number: 1307
Length/Credit: .5 credit – 1 semester
Grade Level: 10,11,12
Prerequisite: None

This course is designed to give students the background knowledge they would need for coaching and officiating careers. Students will be able to use what they learn to coach or officiate youth-level sports that include, but are not limited to: basketball, soccer, football, baseball, volleyball, and softball. Students will demonstrate proper mechanics and rules of these selected team sports. Students will be able to identify and demonstrate professional characteristics and personal qualities needed to become a coach. Students will be able to develop their own coaching philosophy.

CAPS (HEALTHCARE)

Course Number: 1852-1853
Length/Credit: 1.0 credit – 1 semester
Grade Level: 12

Prerequisite: Health Careers and Human Anatomy I and preferably Human Anatomy II; instructor recommendation for grade 11; must complete and submit application (available in the College & Career Center)

This course will offer students a project-based study in the area of health applications. With the use of patient care mannequins, students will learn how to assess vital signs and treat other minor ailments. CPR and First Aid training will be provided and students will become certified in these areas following the successful completion of the training. With the help of the medical staff from the community, simulation lessons will occur on topics such as suturing, casting and splinting, labor and delivery, and emergency medicine. Students will participate in several field experiences and a job shadow experience to explore various career opportunities within the healthcare field. This course will meet two blocks back to back semester one.



CAPS (TEACHER EDUCATION)

Course Number: 1850-1851
Length/Credit: 1.0 credit – 1 semester
Grade Level: 12

Prerequisite: Intro to Human Services or Human Service Careers and Human Development I; must complete and submit application (available in the College & Career Center)

This course will offer students a project-based study in the area of teacher education. Students will be surrounded by a variety of experiences including classroom observations, internships, mentorships, networking, modeling, and practicum. Students will study educational pedagogy as the basis for the profession and will experience the many pathways within a career in education. This two-block, full year course, will prepare students through a semester of foundational studies moving towards a semester of field experience. Students will be collaborating with academy partners in the community, and will need parent permission and their own transportation to travel off-site. This course will meet two blocks back to back semester one.



CITIZENS ACADEMY

Course Number: 0214
Length/Credit: .5 credit – 1 semester
Grade Level: 9,10,11,12
Prerequisite: None

The course will provide an overview of the criminal justice system including experiences to work alongside professionals in the community; including city government officials, police officers, social workers, and psychologists. Students will experience a mock trial, court room scenarios, eyewitness testimony, civic engagement opportunities, and forensic investigation. They will study the importance of personal safety and crime prevention.

CITIZENS ACADEMY II

Course Number: 0224
Length/Credit: .5 credit – 1 semester
Grade Level: 10,11,12
Prerequisite: Citizens Academy

Students will learn substantive information about law, democracy, and human rights and apply them in a culminating experience of Mock Trial competition. Students will gain insights as to the inner-workings of the criminal justice system, government/public administration and law fields. Students will have the unique opportunity to participate in a mini-internship to explore various career opportunities within the government/public administration and law fields. Students will continue examining how law is related to values, human rights, and responsibilities within the framework of the U.S. Constitution. Emphasis will be placed on the Criminal Justice Process: The Investigation, Proceedings before trial, the Trial, the court system, settling disputes, and civil cases.

CIVIC ENGAGEMENT AND IMPACT

Course Number: 0213
Length/Credit: .5 credit – 1 semester
Grade Level: 11,12
Prerequisite: Human Service Careers and Social Issues in Human Services

This course will provide students with a call to action and the ability to meaningfully impact change within the community, and beyond, through project-based learning. Students will have investigated related career opportunities through the Human Service Careers course. This course is an advanced opportunity to apply what students have learned from previous Health Sciences and Human Services courses. This investigation becomes an analysis of the key social issues affecting our community and beyond through the Social Issues in Human Services course. Students will choose the impact projects they want to lead and be involved in. Due to the impact projects that will take place off campus, students will be required to provide their own transportation to and from the site. This course will be offered every other year.

COLLEGE GENERAL PSYCHOLOGY

Course Number: 0205
Length/Credit: .75 High School Credit / 3 College Credits - 1 semester
Grade Level: 11,12
Prerequisite: Accuplacer Reading score of 78 or ACT Reading score of 21

This course is a basic introduction to psychology. Topics include its history, research methods, biological factors in behavior, sensation and perception, motivation and emotion, learning, intelligence, personality theories, human development, social behavior, and abnormal psychology. This course will expose learners to the basics of these topics. This course is an extension of the Introduction to Psychology course. Different topics and a deeper look into some similar topics will be covered in this college-level course. This course will be transcribed as PSYC 1445 General Psychology (3 credits) at ATCC.



EMERGENCY MEDICAL RESPONDER

Course Number: 0407
Length/Credit: .5 credit – 1 semester
Grade Level: 11,12
Prerequisite: Citizens Academy; Biology

Following successful completion of this course, students will become certified as an Emergency Medical Responder within the state of MN. This course will enable students to develop the basic skills in emergency care, basic life support and first aid. These skills would be valuable for individuals interested in becoming a police officer, emergency medical technician, paramedic, first responder, or others interested in careers in health care.

FOOD SCIENCE, DIETETICS & NUTRITION

Course Number: 1123

Length/Credit: .5 credit – 1 semester

Grade Level: 10,11,12

Prerequisite: None

A lab based class where students will study the science of food, ingredient functions and interactions, nutrition, the western diet, food safety and sanitation. This class will address the issues of producing, processing, evaluating, marketing, and using food including studying foods of the future. Students will have the opportunity to experiment with creating new food products such as candy, beverages, and cereal. Guest speakers will share career information, current and predicted food science products and techniques.

FORENSIC SCIENCE

Course Number: 0413

Length/Credit: .5 credit – 1 semester

Grade Level: 10,11,12

Prerequisite: Citizens Academy

Forensic science is the application of basic biological, chemical and physical science principles to the investigation of crime scenes. Students will take on the role of crime scene investigator in order to collect and evaluate evidence in a problem-solving environment. Students will be asked to read, research, hypothesize, interview, compute and use deductive reasoning skills to propose crime solutions. Major themes of study in Forensic Science include securing a crime scene, entomology (insects as evidence), anthropology (skeletal remains), analysis of trace evidence (hair and fiber), bloodstain pattern analysis, fingerprinting and DNA. The final summative assessment requires student to apply their new forensic skills in processing and solving a mock crime scene on campus.

HEALTH CAREERS

Course Number: 1326

Length/Credit: .5 credit – 1 semester

Grade Level: 9,10

Prerequisite: None

This class provides students with the opportunity to investigate a future career in health occupations. Students will evaluate their personal career interest, participate in field experiences, onsite observations and interviews.

HUMAN ANATOMY I

Course Number: 0406

Length/Credit: .5 credit – 1 semester

Grade Level: 11,12

Prerequisite: Biology or AP Biology or Instructor's approval

This course studies the structures and functions of the human body through content discussion and lab experiences. Topics covered include: general anatomical terminology, the study of human tissues, the integumentary system, the skeletal system, and muscular structure and function. Model making labs and dissection labs are used to facilitate instruction. This course is recommended for students interested in the science of the human body or those considering a career in any area of healthcare.

HUMAN ANATOMY II

Course Number: 0416

Length/Credit: .5 credit – 1 semester

Grade Level: 11,12

Prerequisite: Human Anatomy I

This course is a continuation of Human Anatomy I. Human Anatomy II consists of content discussions and laboratory experiences providing for understanding the structures and functions of the adult human body. Topics covered include: muscular system, general senses, special senses, circulatory system, digestive system, respiratory system, and reproductive system. Model making labs and dissection labs are used to facilitate instruction. This course is recommended for students interested in the science of the human body or those considering a career in any area of healthcare.



HUMAN DEVELOPMENT I

Course Number: 0217

Length/Credit: .5 credit – 1 semester

Grade Level: 9,10,11,12

Prerequisite: None

This course offers a lifespan view of the basic principles, modern research and theory of human development from prenatal to adolescence emphasizing the biopsychosocial framework and a cultural approach. Students will gain an understanding of how people change and how they stay the same over the course of their lives. Students will be introduced to the social, emotional, physical, cognitive and moral development that takes place during these stages. Along with an overview of human development the developmental stages covered in this course include prenatal, birth, infancy, early childhood and middle childhood to adolescence.

HUMAN DEVELOPMENT II

Course Number: 0218

Length/Credit: .5 credit – 1 semester

Grade Level: 10,11,12

Prerequisite: Human Development I recommended

This course offers a lifespan of the basic principles, modern research and theory of human development from adolescence to dying and bereavement emphasizing the biopsychosocial framework and a cultural approach. Students will gain an understanding of how people change and how they stay the same over the course of their lives. Students will be introduced to the social, emotional, physical, cognitive and moral development that takes place during these stages. The developmental stages covered in this course include adolescence, young and middle adulthood, late adulthood and dying and bereavement.

HUMAN SERVICE CAREERS

Course Number: 0220

Length/Credit: .5 credit – 1 semester

Grade Level: 9,10,11,12

Prerequisite: None

This course will provide students with the opportunity to investigate career pathways in Human Services and evaluate their career interests through authentic experiences and in class speakers. The course will include an understanding of the skill sets necessary in these career fields as well as related ethical issues. The focus of this course will include, but is not limited to, careers in education, counseling, social work, psychology, gerontology, government agencies, human resources, speech and language pathology, rehabilitation therapy, corrections, firefighting etc.



INTRODUCTION TO PSYCHOLOGY

Course Number: 0206

Length/Credit: .5 credit – 1 semester

Grade Level: 11,12

Prerequisite: None

An introductory class in psychology with units on the brain, learning processes, memory – including eyewitness testimony, workings of the mind—including criminal behavior, personality, and psychological disorders. Individual work is planned on self-concept, learning and personality development. The class is designed with experiments, behavior and personality studies that will interest students. Students that are choosing the career path of working with people in areas of Psychology, Education, Social Services, and Criminal Justice will benefit from taking this course.

LAW & CIVIL LIBERTIES

Course Number: 0210

Length/Credit: .5 credit – 1 semester

Grade Level: 11,12

Prerequisite: Human Service Careers & Social Issues in Human Services recommended

This course provides new information, practical advice, and competency building activities designed to provide students with the ability to analyze, evaluate, and in some situations resolve legal disputes. This course approach to law-related education is to provide practical information and problem-solving opportunities that develop in students the knowledge and skills necessary for survival in our law-saturated society. This class is academically challenging and helps prepare students for future college plans.

NURSES ASSISTANT & HOME HEALTH AIDE (CNA)

Course Number: 1328

Length/Credit: .75 High School Credit / 3 College Credits – 1 semester

Grade Level: 11,12

Prerequisite: Accuplacer Reading score of 55 or higher; Age 16 by the time of Certification Test (January & June); limited to 18 students per semester

This semester long course presents curriculum to develop skills, attitudes, and knowledge essential in giving direct and supportive care as a Nursing Assistant in long term care facility or as a Home Health Aide. The course meets OBRA requirements for training nurse assistants and home health aides and meets the Minnesota Board of Nursing standards. Skills are practiced and demonstrated in a supervised laboratory setting at AAHS, ATCC, and within a clinical environment. During the last month of the course, training will take place at a local long-term care facility under the supervision of one of the instructors. The class time schedule will change during clinical trainings. Student will receive a calendar the first day of class that will reflect this schedule. Students will be required to have 100% attendance during the clinical trainings. A Mantoux test is required prior to the start of clinical experiences. (A Mantoux test can be acquired from your doctor's office or a Public Health facility.) Students will also be required to wear scrubs during clinical experiences.

Certification Test: Nurse Assistant/Home Health Aide test outs will be scheduled at ATCC upon completion of the CNA course. This course will be transcribed as PNSG 1640 Nursing Assistant/Home Health Aide (3 credits) at ATCC.



ORGANIC CHEMISTRY

Course Number: 0412

Length/Credit: .5 credit – 1 semester

Grade Level: 12

Prerequisite: AP Chemistry; Chemistry with instructor signature

Organic chemistry is a semester course in which the chemistry of organic carbon-containing compounds are introduced. An emphasis is placed on the naming of compounds and also the molecular structure of compounds are explored. Reaction types and reaction mechanisms will also be introduced. What is covered in lecture will be re-emphasized in the laboratory. This course is an excellent introduction for those students wishing to pursue a career in a science-related field.

PREVENTION & CARE OF INJURIES

Course Number: 1314

Length/Credit: .5 credit – 1 semester

Grade Level: 11,12

Prerequisite: Successful completion of Wellness/Fitness (1311)

This class is an elective course where students will learn how to prevent and care for various injuries through lecture and lab settings. The course will also focus on the role of sports in society today and the psychological aspects of sports and competition.

SOCIAL ISSUES IN HUMAN SERVICES

Course Number: 0221

Length/Credit: .5 credit – 1 semester

Grade Level: 10,11,12

Prerequisite: Human Service Careers

This course provides an in-depth study of contemporary social problems in the United States that create and impact human need. Included in this course will be critical discussion of the sociological perspectives of social problems as they relate to mental illness, drug abuse, poverty, terrorism, deviance, discrimination, family, violence and immigration. Upon completion, students should be able to recognize, define, analyze cause and effect, and propose solutions to these problems.

