

2025-2026 Dual Credit Program Descriptions

SEMESTER 1 PROGRAMS (September 2025 – January 2026)

AM Mohawk Bridge: Developmental Psychology & Society, Technology and Social Issues (Fennell Campus)

Developmental Psychology:

In this course, students will explore the study of human development from conception to death focusing on physical, cognitive, social and personality growth throughout the lifespan. Students will also identify developmental strategies to adapt to change, to clarify and achieve goals, and to balance how to manage time and priorities for personal development and academic benefit.

Society, Technology and Social Issues:

Analyze the social impact technologies have on society by looking at its origins, adaptations and pervasiveness throughout our lives. In this course we will dissect how technology has the ability to displace world order, as well as evaluate how culture and technology are co-constructed. Topics include technology-mediated relationships; intersections of technology and social class, inequality, gender, sexuality and race; as well as digital labour, data analytics, surveillance, warfare, and neutrality.

AM Welding: Introduction to Welding & Math Trade Calculations (Stoney Creek Campus)

Introduction to Welding:

Students will learn introductory welding practices and welding safety. The students will practice safe set up and use of welders and oxy-acetylene rig to weld, braze and cut steel.

Trade Calculations (Math Techniques):

This course will enable the student to complete unit conversions, convert between systems of measurement and convert between fractions and decimals. Students will solve algebraic equations, apply trigonometry and solve problems related to force, motion and control. Technical problems will be solved through application and interpretation of mathematical data.

PM Mohawk Bridge: College 101 & Positive Psychology (Fennell Campus)

College 101:

Students learn what to expect in a college or university environment, with special focus on time and stress management, overcoming barriers, critical thinking, and planning next steps. Students will focus on reflection and growth mindset. Student will apply their personal strengths and skills to employment and education goals. Students will also explore strategies for success in school.

Positive Psychology:

In this course, students will explore various pathways to well-being, as we learn evidence-based strategies with roots in the science of Positive Psychology. Discover ways in which you can improve your mindset, increase self-awareness and self-understanding, cultivate flourishing relationships, practice self-care, and align your life with your values and purpose. By practicing a variety of these interventions, we can learn to flourish in our personal, interpersonal and professional lives, as we create a life worth living.

PM Graphic Design: Graphic Design & Animation (Fennell Campus)

Graphic Design:

Students will produce various single and multi-page documents while utilizing the tools used in page layout software. They will follow basic character and paragraph formatting, along with basic elements and principles design.

Animation:

Analyzing animated films from various eras and styles will give the student an understanding of the animation process and techniques. They will gain an overall appreciation of the history and current techniques of animation.

SEMESTER 2 PROGRAMS (February 2026 – June 2026)

AM Mohawk Bridge: College 101 & Positive Psychology (Fennell Campus)

College 101:

Students learn what to expect in a college or university environment, with special focus on time and stress management, overcoming barriers, critical thinking, and planning next steps. Students will focus on reflection and growth mindset. Student will apply their personal strengths and skills to employment and education goals. Students will also explore strategies for success in school.

Positive Psychology:

In this course, students will explore various pathways to well-being, as we learn evidence-based strategies with roots in the science of Positive Psychology. Discover ways in which you can improve your mindset, increase self-awareness and self-understanding, cultivate flourishing relationships, practice self-care, and align your life with your values and purpose. By practicing a variety of these interventions, we can learn to flourish in our personal, interpersonal and professional lives, as we create a life worth living.

AM Aviation: Introduction to Aircraft Engines & Basic Aircraft Systems (Aviation Campus)

Aircraft Engines:

The students will explore aircraft propulsion systems and work on aircraft engines and their components. They will analyze the function, characteristics and classifications of lubricants. Students will be able to perform calculations, including power, horsepower, thermal efficiency, and compression ratios.

Basic Aircraft Systems:

Students will investigate wing and rotary aircraft hydraulic and pneumatic components, simple systems, back-up systems, hydraulic seats, bearings and lubrication. Students will practice bearing removal, inspection and installation.

PM Mohawk Bridge: Developmental Psychology & Society, Technology and Social Issues (Fennell Campus)

Developmental Psychology:

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Society, Technology and Social Issues:

Analyze the social impact technologies have on society by looking at its origins, adaptations and pervasiveness throughout our lives. In this course we will dissect how technology has the ability to displace world order, as well as evaluate how culture and technology are co-constructed. Topics include technology-mediated relationships; intersections of technology and social class, inequality, gender, sexuality and race; as well as digital labour, data analytics, surveillance, warfare, and neutrality.

PM Computer Engineering Technician: HTML and CSS & Introduction to Networking (Fennell Campus)

HTML and CSS

Students will create web pages using Hypertext Markup Language (HTML), format web pages using Cascading Style Sheets (CSS), and create web pages that include lists, links, images, web tables, and web forms, styled with CSS. Students will use Web Accessibility Initiative (WAI) rules for accessibility compliance in design.

Introduction to Networking:

Students will administer Microsoft Windows and UNIX hosts within a virtualized environment. Students will design and implement common network-level services. Students will create and utilize software development environments.

PM Health Care: Structure and Function of the Human Body & Communication for Personal Support Workers (IAHS Campus@ McMaster)

Structure and Function of Human Body:

Students will examine the normal structures and functions of the human body and its system. Upon successful completion of the course, learners will be able to use the appropriate terminology related to anatomy, physiology, and organization of the human body. They will be able to describe the anatomy, physiology, and location of cells, tissues, and organs of the following body systems: integumentary, nervous, endocrine, musculoskeletal, cardiovascular, respiratory, lymphatic, circulatory, immune, gastrointestinal, urinary, reproductive, and special needs. Normal physiology of aging will be explored.

Communication for Personal Support Workers:

Students will apply principles of communication that transfer to real-world scenarios to meet the needs of the intended audience. They will develop the reading, writing, critical thinking, and oral skills essential to be an effective communicator. Students will conduct, evaluate, and use research from appropriate sources.