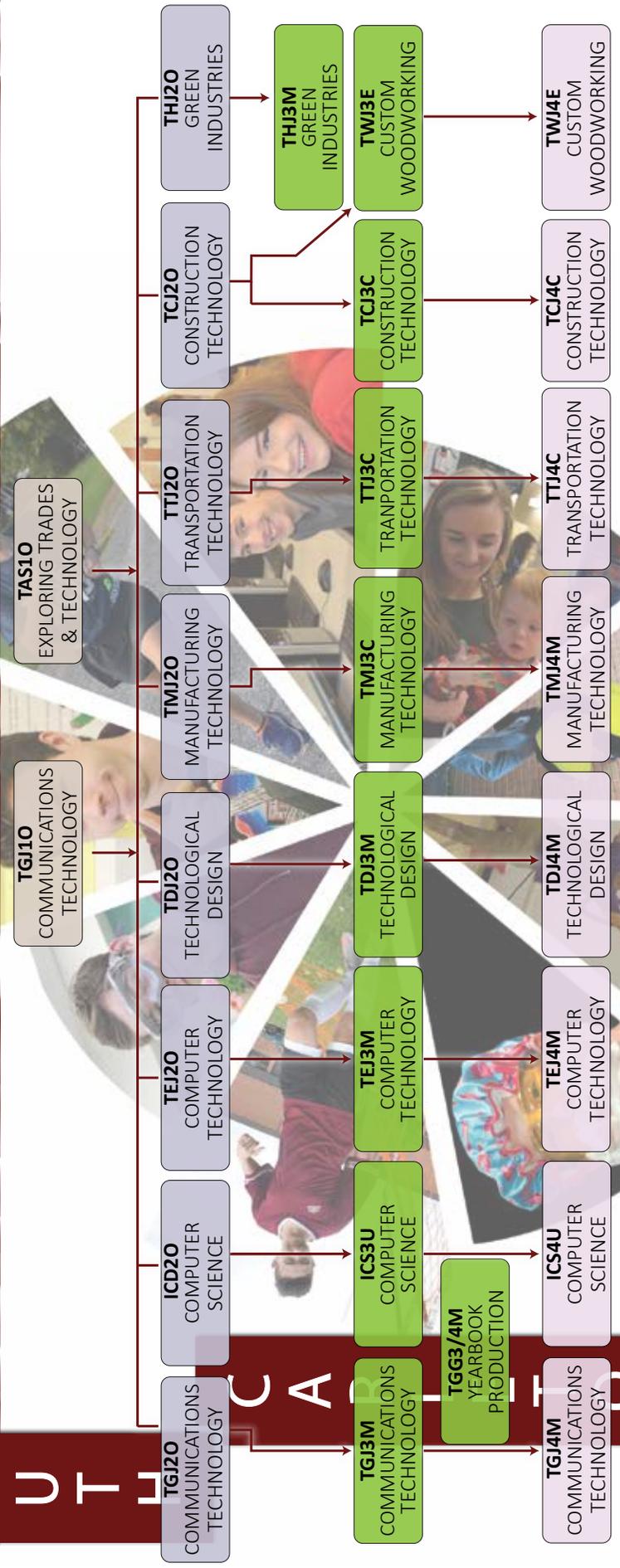


# SOUTHERN

# TECHNOLOGY PATHWAYS



**LEGEND**

U - UNIVERSITY:  
 M = MIXED COLLEGE/UNIVERSITY  
 C = COLLEGE  
 E = WORKPLACE  
 O = OPEN

NOTE: Grades 9-11 courses have no prerequisites in any branch of technology

# TECHNOLOGY

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# COURSE OPTIONS

## TRADES TECH

### CONSTRUCTION

This course focuses on the development of knowledge and skills related to residential construction. Students will learn about sub-trades related to housebuilding like forming, electrical, plumbing, carpentry and how they relate to the Ontario Building Code

### MANUFACTURING

Students will acquire skills and knowledge related to the design and fabrication of everyday equipment and items using a variety of tools such as mills, lathes, welding and semi-autonomous manufacturing machinery

### TECHNOLOGICAL DESIGN

Bridging trades and computer technology offerings, technological design students research, design and build everything from consumer products to buildings. This course spans fields related to manufacturing, engineering, architecture and industrial design

### CUSTOM WOODWORKING

Students taking this course learn joinery techniques and knowledge related to furniture making, cabinet making and other custom woodworking applications. Various forms of joinery as well as semi-autonomous systems are explored

### TRANSPORTATION

Students taking this course learn theory and techniques in testing, diagnosing and servicing vehicles ranging from automobiles to watercraft. Examined in depth are engine, electrical system, suspension, braking and steering systems

### GREEN INDUSTRIES

Students develop knowledge and skills related to agriculture, forestry, horticulture, and landscaping. They identify, grow, and manage plants and animals and develop process, design, and management techniques in this growing field

## COMPUTER TECH

### COMMUNICATIONS TECHNOLOGY

In this course students learn about media and messaging. A variety of techniques related to graphic design, photography, animation, as well as audio & video production and editing are used

### COMPUTER SCIENCE

This course introduces students to computer science. Students will develop software individually as well as in teams and use creative solutions to problems related to computing

### COMPUTER ENGINEERING

This course examines computing and electronic systems of all kinds. Students explore robotics, personal computer assembly, residential & commercial networking as well as computer security

### YEARBOOK PRODUCTION

In this course students learn print production techniques associated with the creation of a yearbook. A variety of techniques related to graphic design, photography and layout are used.