Pathways to College
Through Advanced Electrical or Manufacturing Technology

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Project Overview

- Our Application Process & Project Partners
- Curriculum Alignment
- Our Dual Credit Pilot Programs (Model B)
  - Ford Academy of Manufacturing Sciences (FAMS)
  - Electrical Ontario Youth Apprenticeship Program (OYAP)

Our Application Process & Project Partners

- Key part of project was building partnerships with Halton Catholic District School Board and Sheridan College
- Selected programs from within public (FAMS) and Catholic (Electrical OYAP) boards to benefit all students in Halton
- Formed both an advisory committee and working groups representing all partners

Curriculum Alignments

- Manufacturing and electrical working groups were formed, both including a college professor, high school teacher, school board and college administration

- Dual Credit Conference: Introduced working groups, selected courses to be aligned, created action plans

- Working groups completed curriculum alignments, created program schedules, and arranged program delivery

Ford Academy of Manufacturing Sciences (FAMS)

- Two-year, four-semester integrated math, science and technology program at White Oaks Secondary School
- 11-12 credit package with focus on manufacturing, robotics component and summer coop placement
- Also a “reach ahead” opportunity in the Specialist High Skills Major pilot program

- Students build robot to compete in First National Robotics Competition

FAMS Dual Credit Program Highlights

- Dual Credits Aligned within FIRST Robotics Component:

  First Year (Grade 11)

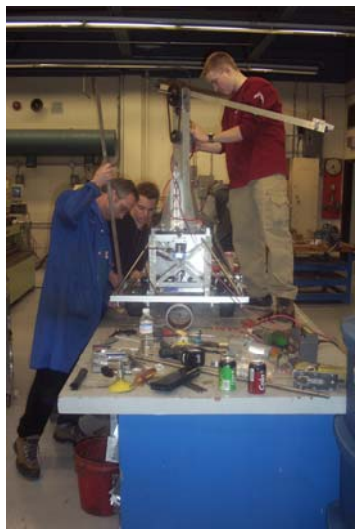
  - Technological Design (TDJ3M) = Mechanical Drafting (ENGI19723)
  - Manufacturing Technology (TMJ3E) = Industrial Practices (ENGI15064)

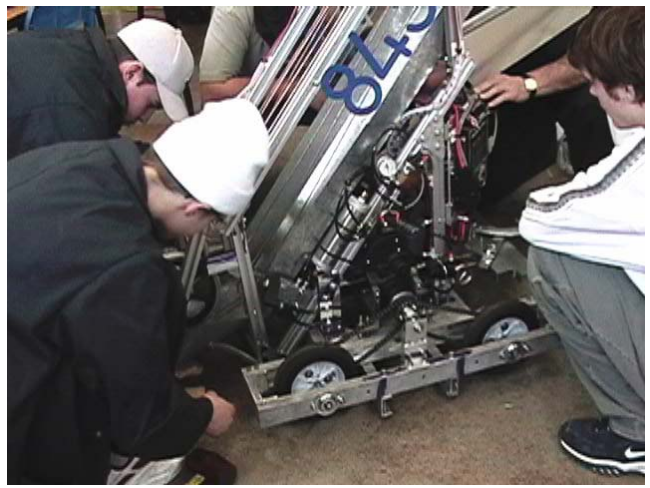
  Second Year (Grade 12)

  - Manufacturing Technology (TMJ4M) = CAD Concepts & Mechanical (CADD13865)
  - Manufacturing Technology (TMJ4E) = CNC for Machines & Tools (ENGI27758)

FAMS Dual Credit Program Highlights

- Dual Credit Model “B”, team teaching
- Students attend high school in mornings, after school and Saturdays (Robotics), attend Sheridan College once a month





FAMS Farm Team

- "Elementary Dual Credit", Grade 8 students will earn a TTI credit

- Student Success pilot transition reculturing project through FIRST Robotics

Electrical Ontario Youth Apprenticeship Program

- One semester program integrating construction technology and electrical apprenticeship program at Bishop Reding High School (Halton Catholic District School Board)

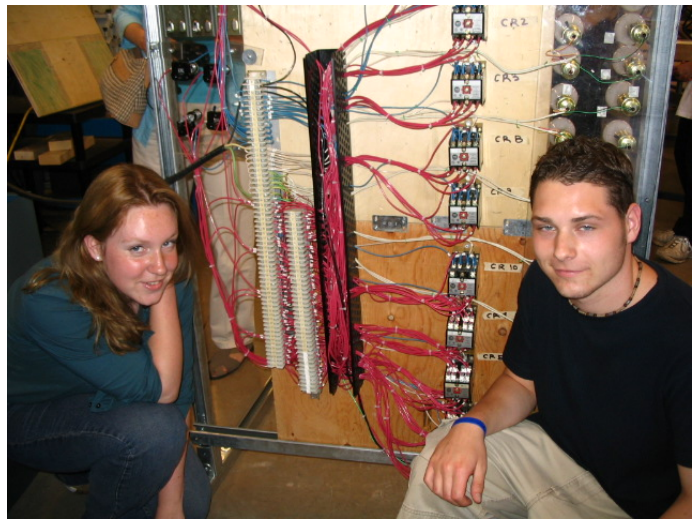
- Students take courses in electrical theory, practical applications, industry certifications, along with summer coop internship

- Successful students can challenge exam to be exempt from first level of electrician apprenticeship

Electrical OYAP Dual Credit Program Highlights

- Credits Aligned:
  - Construction Technology (TCJ3C) = Architectural Drafting (ENGI12356)
  - Construction Technology (TCJ4C) = PLC One (ENGI21491)
  - Workplace Safety Awareness Course (TCJ4C) = Electrical Pre-Trades Safety (College Code TBA)

- Dual Credit Model “B”, team teaching
- Students attend Bishop Reding (BR) most of the time, Fridays Sheridan professor teaches at BR, three weeks throughout semester, students take courses at Sheridan College



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