

# Automotive Transmissions 40S

Credit Value: 1.0

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## Overview:

The Power Mechanics program at Minnedosa Collegiate consists of 12 credits:

- 1 credit at the Grade 9 level
- 2 credits at the Grade 10 level
- 6 credits at the Grade 11 level
- 2 credits at the Grade 12 level

There are no pre-requisites at the Grade 9 level. Students wishing to enroll in a full credit program at the Grade 11 and Grade 12 levels will require at least 2 credits at the Grade 9 and Grade 10 levels as a pre-requisite. Students completing a full credit Power Mechanics program will be eligible to graduate with a Vocational high school diploma. In Grade 11 and 12 the completion of the academic core courses (ELA, Math, PE) in the first semester of the school year is also a pre-requisite.

Pre-requisite: 2 credits from the Grade 9 & Grade 10 levels

## Course Description:

Students will develop an understanding of the operating principles and basic components of the automatic transmission. Students will learn about the construction and operation of torque convertors as well as the power flow through the planetary gear sets of an automatic transmission. Students will become familiar with the use and control of hydraulics and hydraulic controls within the automatic transmission to create gear changes and clutch pressures inside the transmission. Students will be introduced to testing and diagnosing procedures as well as transmission removal and rebuilding procedures. Automatic overdrives and transaxles will also be introduced in this section.