

→ **Mechanical
Engineering
Technology**
Co-operative Education

Engineering and CAD Technology



MET Course Listing	CODE
Year 1	Term
Engineering Design 1	Term 1
Physical Science	Term 1
Engineering Materials	Term 1
Technical Communication	Term 1
Algebra & Trigonometry	Term 1
Mechatronics	Term 1
WHMIS/General Safety	Term 1
Engineering Design 2	Term 2
Electrical/Electronic Fundamentals	Term 2
Quality Inspection	Term 2
Fluid Mechanics	Term 2
Basics of Manufacturing	Term 2
Calculus	Term 2
Co-op 1	Term 3
Year 2	
Fluid Power	Term 4
Numerical Methods/Programming	Term 4
Applied Mechanics	Term 4
Instrumentation and Control	Term 4
Fabrication Methods	Term 4
Computer-Aided Design	Term 4
Project Management/Economics	Term 5
Machine Design	Term 5
Strength of Materials	Term 5
Thermodynamics	Term 5
Air Conditioning 1	Term 5
Co-op 2	Term 6
Year 3 - Mandatory	
Engineering Technology Project	Term 7
Applied Statistics	Term 7
Technology Management	Term 7
Year 3 - Electives	
Tool Design	Term 7
Metallurgy	Term 7
Computer Aided Engineering	Term 7
Aerospace Fundamentals	Term 7
Air Conditioning 2	Term 7
Industrial Process Control	Term 7
Enterprise Resource Planning	Term 7
Noise, Vibration & Balancing	Term 7

For more information, please contact:

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The information in this brochure is accurate as of February 2014.

The College reserves the right to modify or cancel any course, program, process, or procedure without notice or prejudice.

→ Description

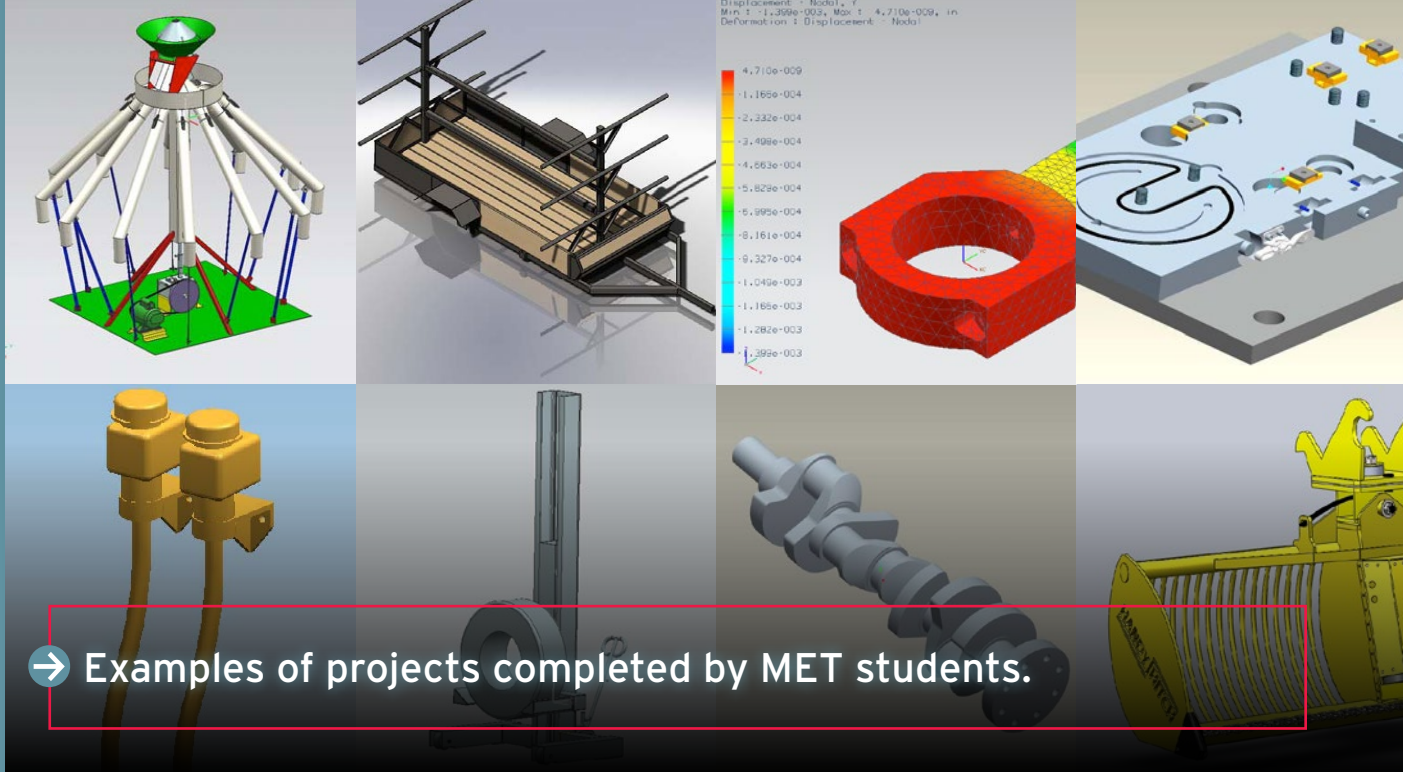
Red River College's **Mechanical Engineering Technology** program prepares students to work in the design and production of high-quality manufactured goods. Over the course of the 28-month program, students will learn to

- design mechanical components and systems
- plan the manufacturing of, and control the production of, quality goods and services
- use current software programs to enhance the depth and degree of analysis
- analyze and solve problems (and implement solutions)
- communicate, both orally and in writing
- work productively with others

In their final term, students may specialize in Industrial Manufacturing, Mechanical Design, or Building Systems. Successful academic completion (GPA of 2.0 or greater) is required to enter the co-operative education work stream. All co-op work terms are 14 to 16 weeks. Eligible students begin work terms in May of each year, but some may be available in January.

→ Co-operative Education Schedule

- **January to April:** Post job ads, review applications and hire suitable candidates
- **May 1:** Students begin co-op employment
- **June:** Employers meet with co-op coordinator to discuss students' performance
- **August:** Employers complete documentation (tax credit, assessment, co-op report); students return to RRC



→ Examples of projects completed by MET students.

→ Co-operative Education:

Our Co-operative Education program integrates students' academic studies with periods of work experience overseen by an employer. Co-op placements may take place in fields of business, industry, government and social services, as long as the following criteria are met:

- Placements are developed/approved by MET's co-op coordinator as a suitable learning situation
- Students are engaged in productive work, rather than just observing
- Students' performance is supervised and evaluated by the employer
- Students' on-the-job progress is monitored and evaluated by the co-op coordinator
- Students are paid for the work performed

→ Benefits to Employers

Co-operative education placements can be useful in

- filling your short-term staffing needs
- freeing up your employees for higher priority work
- providing you with productive workers during peak hours
- helping you finish up special projects or initiatives
- providing you with insight into course curricula
- training your future workforce
- reducing your recruitment and training costs
- helping you attain tax credits
- providing your staff with supervisory experience