

Schedule of Geophysics Field School 2026

Locations: Central Ave, Saskatoon (near Peturrson's Ravine)

DOTR – Draeger and Old Trail Road area

GTS - Geophysics Test Site and Vault

	Morning	Location	Afternoon	Location
Monday August 24	Resistivity and Near-Surface Seismic with Geological Engineering	Central Ave	Resistivity and Near-Surface Seismic with Geological Engineering	Central Ave
Tuesday Aug 25	Seismic Wave Test (split group) Schlumberger resistivity sounding	DOTR	Laying out gravity lines, GPS (split group) Start gravity (split group) MagArrow tracking magnetometer	DOTR
Wednesday Aug 26	Big-loop Time-Domain EM with Patterson Geophysics and Joel Grunerud (split group) Gravity	GTS DOTR	Induced Polarization (IP) with Patterson Geophysics (split group) Gravity Barbecue	GTS DOTR GTS
Thursday Aug 27	Laying out seismic line Drilling shot holes, GPS	DOTR	Max-Min (Slingram) EM with Todd LeBlanc	GTS

	(split group) GEM-2 EM with Todd LeBlanc	GTS	(possible, split group) Magnetic grid (split group) Gravity	DOTR
Friday Aug 28	GPR with Randy Brehm VLF	GTS	EM31 with Randy Brehm (possible, split group) Magnetic grid	GTS
	(split group) Gravity	DOTR	(split group) Gravity	DOTR
Saturday Aug 29	Reflection Seismic (split group) Gravity	DOTR	Reflection Seismic (split group) Gravity	DOTR
Sunday Aug 30	(possible) Magnetic grid (split group) Laying out grid for 3-D resistivity	GTS	3-D Resistivity with DIAS Geophysical	GTS
	(split group) Gravity	DOTR	(split group) Gravity	DOTR
Monday Aug 31	3-D Resistivity and IP with DIAS Geophysical	GTS	3-D Resistivity and IP with DIAS Geophysical	GTS
	Spontaneous (or Self-) potential (SP)		Applied potential (several targets)	

Field activities

Every day August 25 - 31, meet at 8 AM at the loading dock of the Geology Building. We will drive out to various field locations around and just outside Saskatoon. We will be back at the loading dock around 5 PM every day.

Come each day prepared to be outside for the day. Bring appropriate rain gear and sun protection, a lunch, and plenty of water. Close-toed running shoes or hiking boots

are recommended for footwear. Long pants are also recommended since we will be walking through grass brush. Be prepared for ticks!

Normally, we make no common lunch breaks and on a rolling schedule, for example while waiting for a multinode resistivity recording to be completed by the instrument.

For washroom facilities, we have portable toilets set up in the seismic vault at the GTS or in a tent when working in the field. On August 24, we will be working in Saskatoon and will also try using the tent. Additionally, it may be possible to travel back to the University or to other public washroom facilities.

Gravity Mapping Project

As the schedule above shows, almost every day, groups of two or three students will commute between the GTS and DOTR sites making gravity readings. These data will contribute to our about 30-year old gravity mapping project of this area started by Prof. Jim Merriam.

Taking gravity readings is likely the most tedious and time-consuming data-acquisition effort required from each individual student. Please take them with care and patience. To fulfill course requirements, each student will be required to make about 6 - 8 readings at field stations plus the associated calibration measurements at the "base station" at DOTR and the "absolute gravity" station in the vault. Repeated measurements may be needed if errors are detected.