

Lab Skills obtained in the Department of Microbiology at the University of Manitoba

Student Name: _____

Student Number: _____

Lab Skills	Microbiology Courses with labs													
	60.210	60.211	60.228	60.344	60.346	60.347	60.348	60.401	60.432	60.447	60.451	60.457	60.460	60.461
anaerobic technique (strict)														
aseptic technique														
bacteria identification & staining techniques														
bacteria physiology analysis														
beer and wine fermentation														
cell component isolation (membrane, protein, isoprenes, etc)														
concentration determinations (protein, glucose, etc)														
enzyme assay and kinetics														
industrial microbiology (product analysis)														
immunology: ELISA														
immunology: immunochemistry techniques														
media & solution preparation														
microorganism dilution and enumeration														
microorganism growth/enrichment/isolation														
fermentation balance (product and substrate analysis)														
molecular biology: cloning														
molecular biology: DIG nonradioactive hybridization														
molecular biology: DNA preparation														
molecular biology: DNA sequencing analysis														
molecular biology: gene transfer techniques														
molecular biology: NCBI gene analysis														
molecular biology: mutagenesis														
molecular biology: PCR														
molecular biology: protein purification														
molecular biology: restriction digestion or RFLP														
molecular biology: Southern blot														
statistical analysis														
water analysis techniques														
Equipment/Apparatus Operation														
gel electrophoresis														
colony counter														
digital scale														
ELISA reader														
GC chromatography														
light cabinet (computer linked camera)														
micro-pipettors														
microscope														
pH meter operation														
rotary evaporator														
SDS-PAGE electrophoresis														
sonicator														
spectronic 20D														
spectronic 4000 (computer linked)														
steam distillation														
thin layer chromatography TLC														
Tutorials/Tours														
Electron Microscope														
french press														
HPLC														
brewery tour														
landfill composting														
petroleum waste management site														
sediment collect site (Fort Wyte)														
ultracentrifuge														
wastewater treatment plant														

Note: Highlighted squares indicate techniques obtained by the student in each lab.

Student: Copy and paste check mark into appropriate cells.