

Student Name: \_\_\_\_\_

Student Number: \_\_\_\_\_

Lab Skills	Microbiology Courses with labs MBIO												
	2100	2110	2280	3440	3460	3470	3480	4010	4470	4510	4570	4600	4610
anaerobic technique (strict)													
aseptic technique													
bacteria identification & staining techniques													
bacteria physiology analysis													
cell component isolation (protein, isoprenes, carotenoids, etc)													
concentration determinations (protein, glucose, etc)													
enzyme assay and kinetics													
experiment procedure design													
cell substrate & product analysis (basic science & industrial)													
immunology: ELISA													
immunology: immunochemistry techniques													
media & solution preparation													
microorganism dilution and enumeration													
microorganism growth/enrichment/isolation													
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: restriction digestion or RFLP													
molecular biology: Southern blot													
statistical analysis													
water analysis techniques													
<b>Equipment/Apparatus Operation</b>													
agarose 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													
<b>Tutorials/Tours</b>													
Electron Microscope													
french press													
HPLC													
brewery tour													
animal tissue culture lab procedures													
colony picker													

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

Caution: some techniques/procedures may be omitted to permit succinct presentation

Student: Copy and paste check mark into appropriate cells.

