

- SBI_3U_1
- SBI_4U_1

Biology

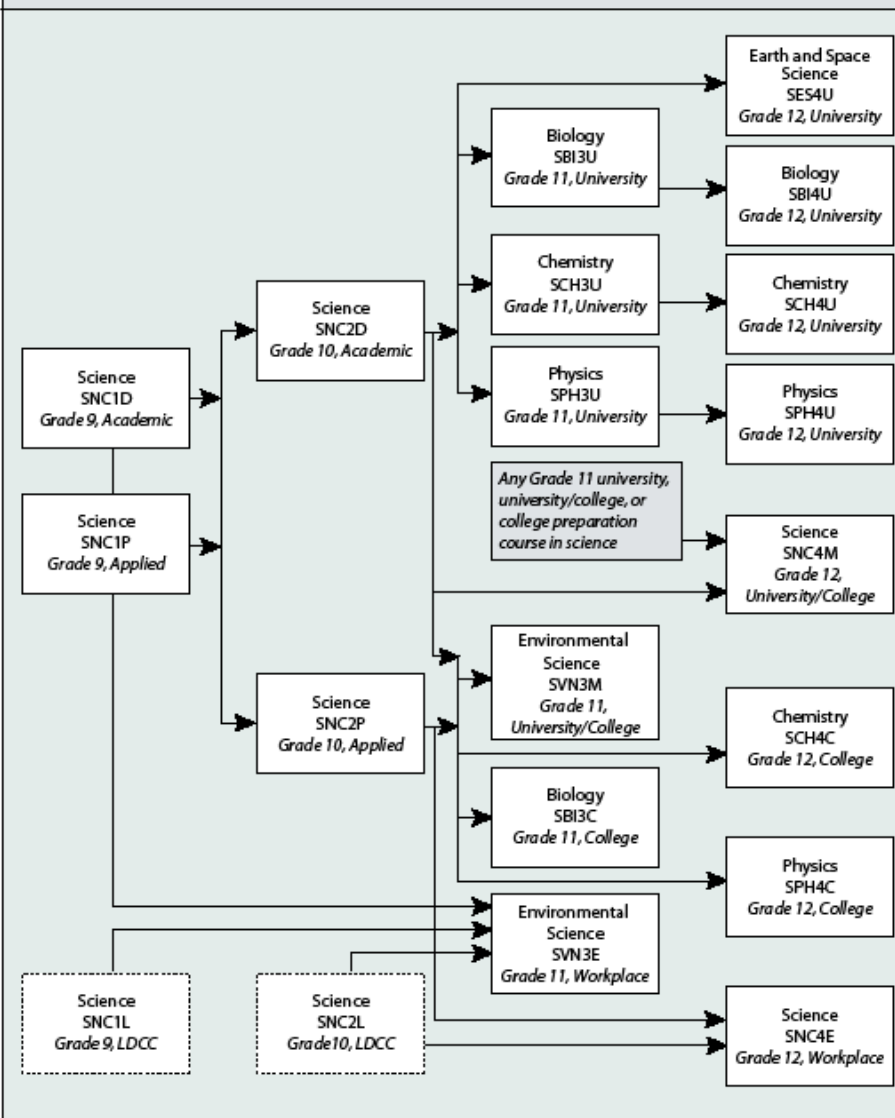
Do I need Biology?

- SBI₃U₁ opens a lot of doors for work in a lab!
- Could finally understand the scientific jargon in CSI! Grey's Anatomy and many more!!!
- Fieldtrips!
- Dissections:
 - grade 11: pigs
 - grade 12: snake, rat and dogfish
- SBI₄U₁ is a prerequisite for Life Sciences programs in university

Science Pathways

Prerequisite Chart for Science, Grades 9–1 2

This chart maps out all the courses in the discipline and shows the links between courses and the prerequisites for them. It does not attempt to depict all possible movements from course to course.



Note: Dotted lines represent locally developed compulsory credit courses (LDCCs), which are not outlined in this curriculum document.

What Can You Do with a Biology Degree?

Other careers shown in the word cloud include: Plant Propagator, Ornithologist, Microbial Culture, Water Engineer, Anesthesiologist, Embryologist, Allergist, Microscopist, Parasitologist, Industrial Hygienist, Consultant, Apiculturist, Game Manager, Marine Engineer, Curator, Surgeon, Materials Engineer, Geneticist, Nurse Anesthetist, Entomologist, Animal Breeder, Technician, Crime Lab, Park Naturalist, Science Writer, Morphologist, Materials Engineer, Electron Microscopist, Ichthyologist, Chiropractor, Aquaculturist, Agricultural Natural Resources Manager, Aquarist, Validation Technician, Yachtmaster, Virologist, Paleocologist, Forest Pathologist, Mammalogist, Lab, Agricultural Zoologist, Director, Anatomist, Waste Disposal Engineer, Cloning Technician, Bioinformaticist, Data Collector, Brewmaster, Quality Sales Representative, Meat and Poultry Assurance, Park Ranger, Medical Records Librarian, Sociobiologist, Marine Life Technician, Optician, Forester, Food Inspector, Manager, Osteopath, Manager of Quality Assurance & Shipping, Ophthalmologist, Criminologist, Audiologist, Agronomist, Veterinary Technician, Dairy Manager, Anesthetist, Food & Drug Inspector, R & D Biochemist, Genetic Counselor, Physician's Assistant, Veterinary Technician, Dairy Manager, Anesthetist, Food & Drug Inspector, Viticulturist, Research Technician, Taxidermist, Biostatistician, Veterinarian, Cell Physiologist, Forensic Pathologist, Mycologist, Biological Photographer, Occupational Therapist, Genome Data Curator, Histologic Technician, MOLECULAR ECOLOGIST, Fossil Fuel Extractor, Population Geneticist, Marine Biologist, Developmental Biologist, Horticulturist, Pest Control, Dietitian, Environmental Physiologist, Director of Genetic Engineering, Hygienist, Medical Illustrator, Fisheries Specialist, Microbiologist, Plant Quarantine Inspector, Vegetable Scientist, Optometrist Biologist, Process Engineer Trainee, Zoo Assistant, Validation Technician, Oral Surgeon, Public Relations, Cell Biologist, Plant Pest, Industrial Waste Specialist, Corps Science Librarian, Field Rancher, Ecologist, Medical Assistant, Conservation, Warden/Ranger, Radiologic Technologist, Recreation Manager, Wildlife Forensics Worker, Research Institute Librarian, Practical Nurse, Environmentalist, Food Processing Manager, Wildlife Conservation and Management Specialist, Hospital Nurse Administrator, Supply House Purchaser, Pharmacist, Registered Dietitian, Natural Sciences Research Curator, Phytozoologist, Forest Economist, Greenhouse Manager, Dental Assistant, Insect Quarantine Inspector, Endocrinologist, Water Linnologist, FERMENTATION SCIENTIST, Chemical Technician, Manager, Environmental Planner, Environmentalist, Quality Controller, Dentist, Biological Illustrator, Aquatic Biologist, Biomedical Proteomics Engineer, Watershed Manager, Technician, Biophysicist, Genomics, Biomechanical Technologist, Environmentalist, Nature Center, Impact Breeder, Nematologist, Physical Therapist, Analyst, Paleontologist, Protein Physiologist, Purification, Chiropractor, Specialist, Plant Physiologist

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SBI3U1

- Biodiversity of living things
- Evolution
- Genetic processes
- Animals: Structure and function
- Plants: Anatomy, growth and function

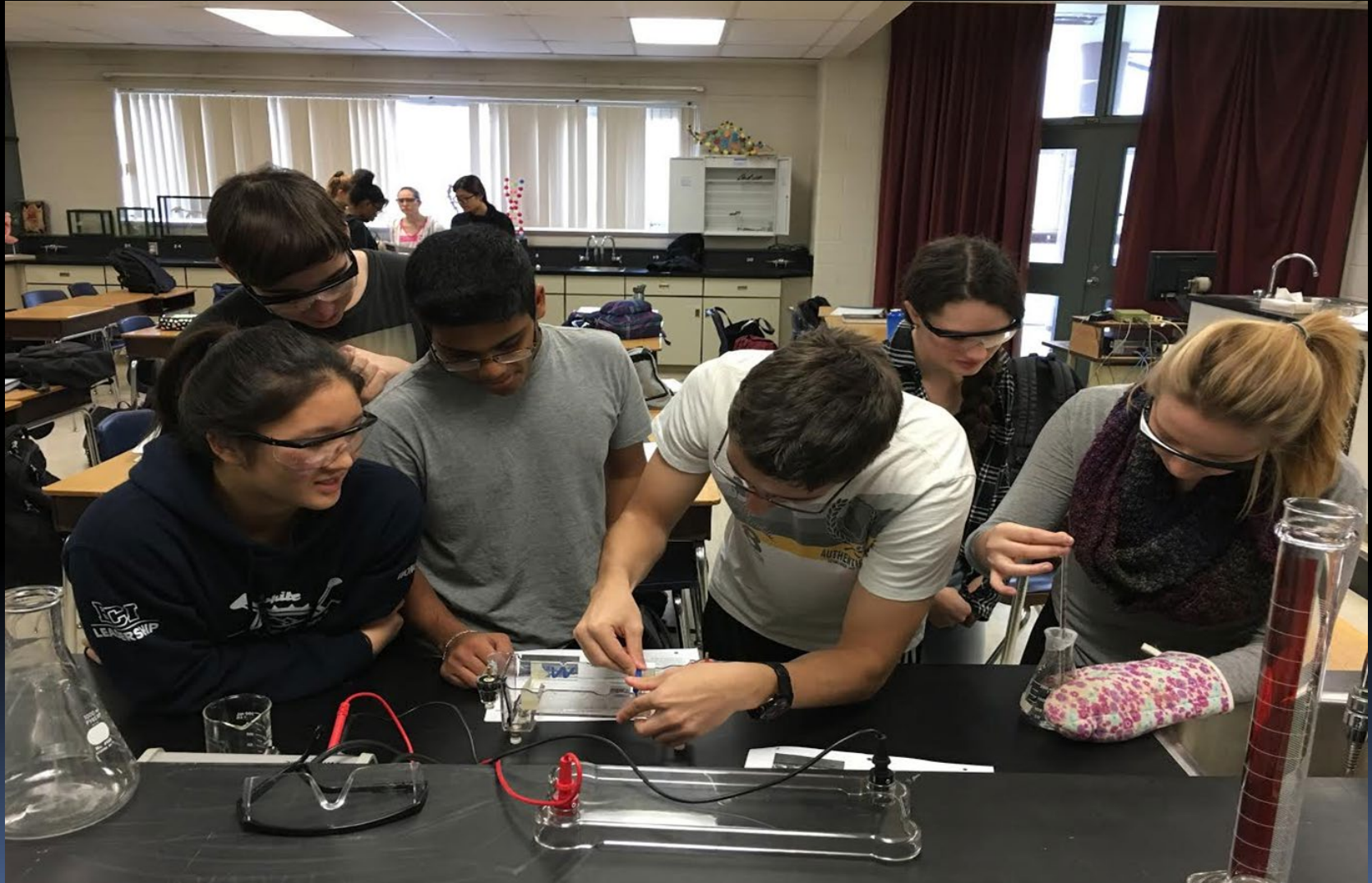
SBI4U1

- Biochemistry
- Metabolic processes
- Molecular genetics
- Homeostasis
- Population dynamics

What is needed?

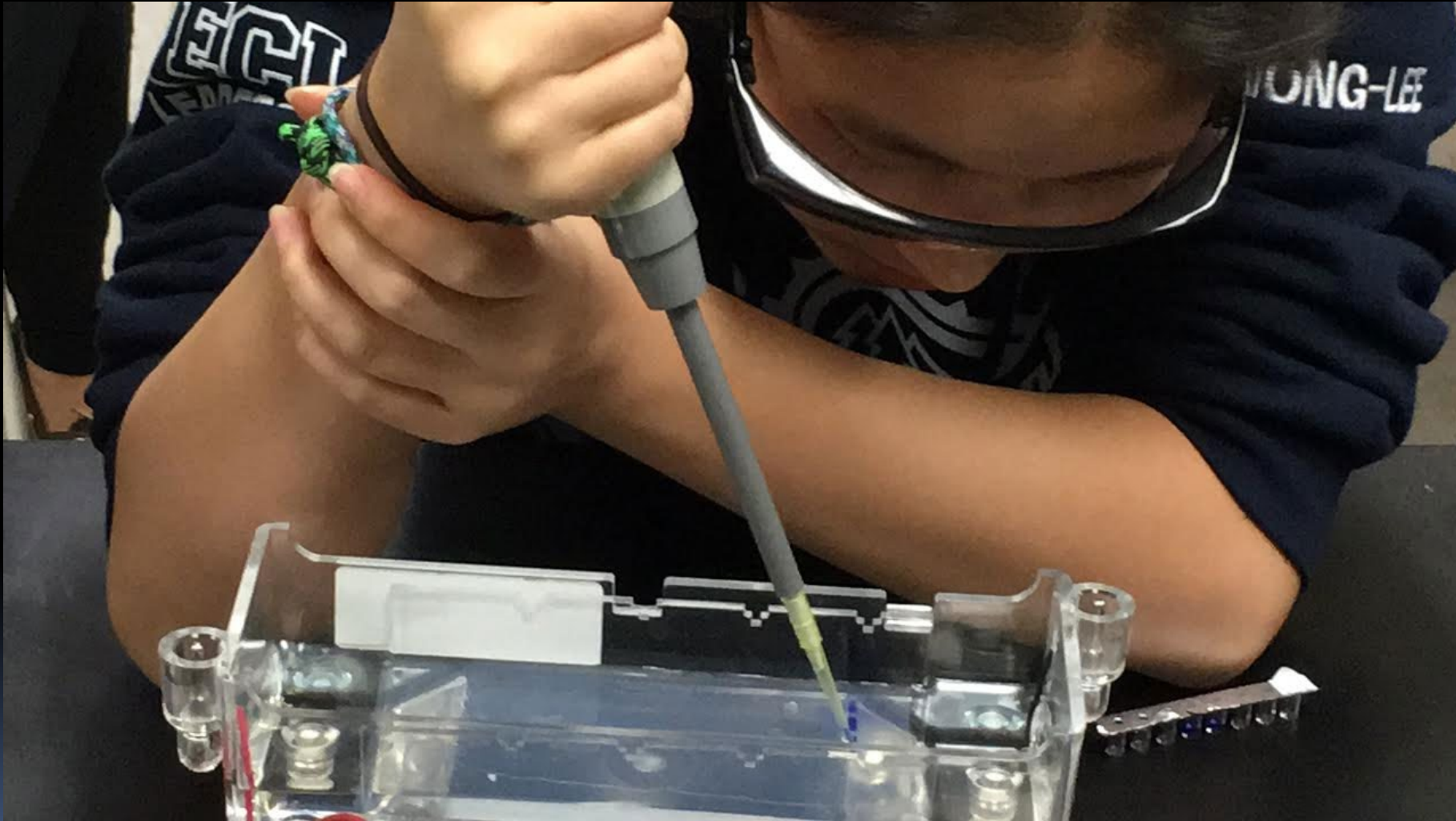
- For SBI₃U₁ ---need grade 10 academic science
- For SBI₄U₁ --- need SBI₃U₁ and SCH₃U₁ (>65%) and be taking 4U₁ level math.

SBI4U- Gel Electrophoresis



- Cancer Gene Detection Experiment

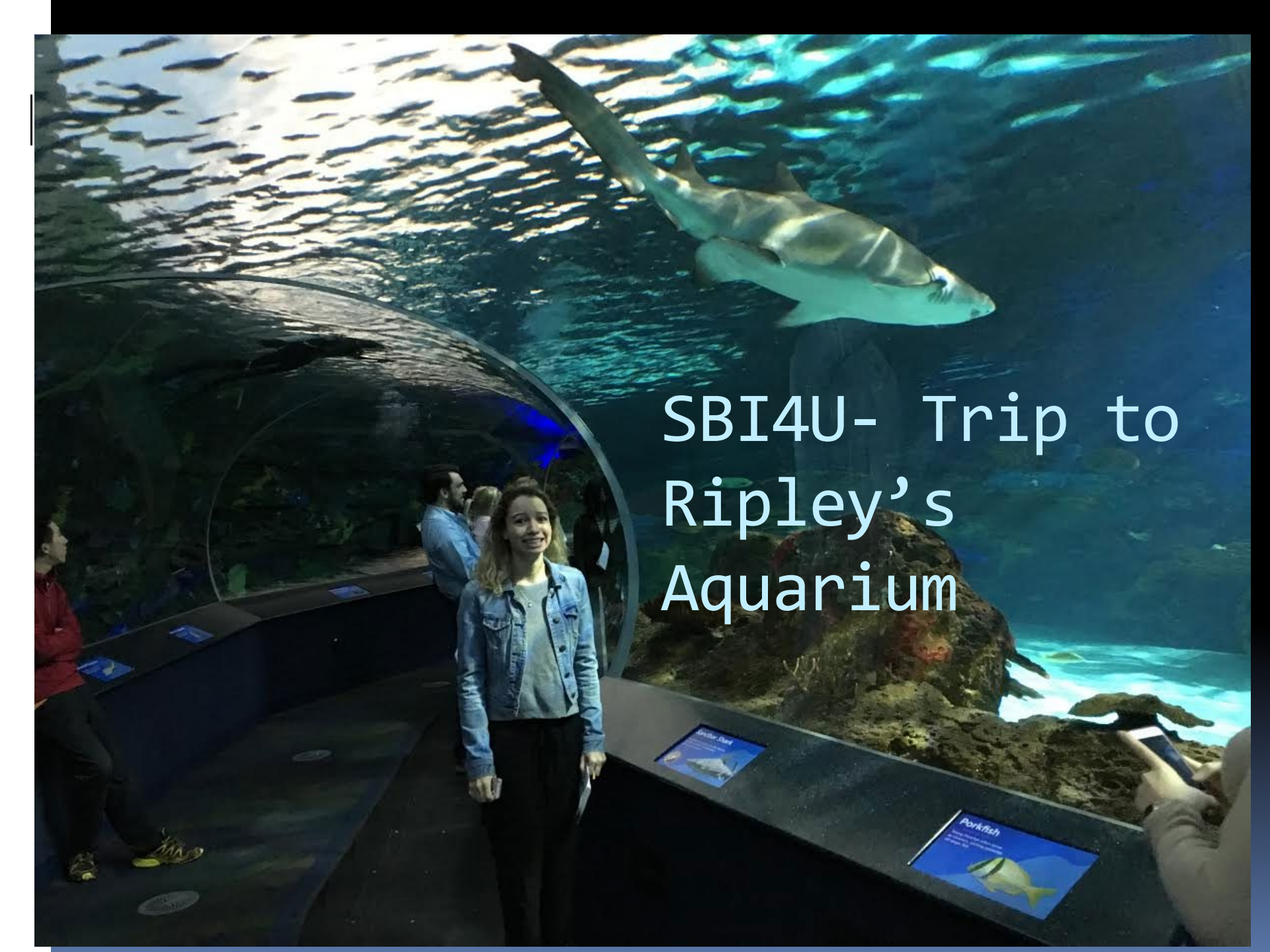
SBI4U- Gel Electrophoresis



- Student loading DNA into the well using a micropipette



Ripley's Aquarium



SBI4U- Trip to Ripley's Aquarium